

SUBJECT INDEX, 1995

A-FACTOR

Synthesis of Optically Active A-Factor, 437

AB INITIOContribution of Transition-state Binding to the Catalytic Activity of *Bacillus subtilis* Chorismate Mutase, 63Geometric and Electric Properties of the Donor-Acceptor Complex H_3N-BF_3 , 113On the $C_2H_2I^+$ Potential Energy Hypersurface. An *ab initio* Study, 143Determination of the Chirality of Enantiomeric [^{16}O , ^{17}O , ^{18}O] Sulfate Esters by IR Spectroscopy: an *Ab Initio* Evaluation, 701The Synthesis and Structures of C_5H^- and C_5^- , 1067

Importance of Electronic and Nuclear Polarization Energy on Distereofacial Selectivity of Diels-Alder Reactions in Aqueous Solution, 1371

Solvent Effects on the Stereoselectivity of Ketene-Imine

Cycloaddition Reactions, 1677

Calculated Structures of SAu_3^+ and $S(AuPH_3)_3^+$, 1889Structures and Stabilities of Gas-phase $C_6H_4X^-$ ($X = F, Cl$ and Br) Anions: Benzyne-Halide Ion Complexes?, 2227Alane Reduction of Selenium and Tellurium: Tertiary Amine Stabilised Dimeric Chalcogenides, *trans*- $\{[Me_3N(H)Al(\mu-E)]_2\}$ ($E = Se, Te$), 2501

Kinetic and Theoretical Studies of the Hydration of Carbon Suboxide, 2547

AB INITIO POWDER DIFFRACTION

COS Trapping by Palladium Pyrazolates: Addition vs. Clathration, 1955

ABSOLUTE CONFIGURATION

Synthesis of Shidasterone and the Unambiguous Determination of its Configuration at C-22, 933

ACCEPTOR

Cyclophanes with Self-recognising Components, 2541

ACETALReaction of C_{60} with Cyclopent-2-enone Acetals. A Convenient Access to Chiral C_{60} Derivatives, 1769**ACETIC ACID**

Formic Acid Promotion of Transition-metal Catalysed Isomerization of Methyl Formate, 1557

ACETOPHENONE

Oxidation of Isopropylbenzene by Iron Tetrphenylporphyrin: Evidence for the Interaction of the Cumyl Radical with Oxygen Donors, 429

ACETYLCHOLINECation- π Interaction between the Trimethylammonium Moiety and the Aromatic Ring within Indole-3-acetic Acid Choline Ester, a Model Compound for Molecular Recognition between Acetylcholine and its Esterase: an X-Ray Study, 2221**ACETYLENE**

Unexpected and Easy Annulation of Fischer-type Phenylethenyl Carbene Complexes, 1973

Lewis Acid Catalysed *trans*-Hydrostannylation of Acetylenes, 2405Easy Access to C, C' -Bifunctionalized $1H$ -Phosphirene-Tungsten Complexes: Evidence for Ambiphilic Reaction Behaviour of a Phosphanedyl-Tungsten Complex, 2507**ACETYLENEDICARBOXYLATE**

Michael-type Addition of 1,8-Diazabicyclo[5.4.0]undec-7-ene to Dimethyl Acetylenedicarboxylate, 2251

ACETYLIDEFormation of the First Heterobimetallic Phosphido-bridged σ - π -Acetylide Complex $[(C_5H_5)_2Ti(\mu-\sigma, \eta^2-C\equiv CPh)(\mu-PPh_2)Ni(PPh_3)]$ by Cleavage of the Central $C-C$ Single Bond in $PhC\equiv C-C\equiv CSiMe_3$ and of the $P-C$ Bond in Ph_3P , and Coupling of the Fragments to $PhC\equiv CSiMe_3$, 1753 $S-S$ Bond Cleavage of Polymerization Resistant 1,2-Dithiolanes by Acetylides: Intrinsic Reactivity of Enzyme-bound Lipoic Acid toward Stable, Localized Carbanions, 1763**ACID ANHYDRIDE**

Epimerisation-free Peptide Formation from Carboxylic Acid Anhydrides and Azido Derivatives, 91

An Efficient Synthesis of *p*-Quinones utilizing a Novel Pummerer-type Rearrangement of *p*-Sulfinylphenols, 1013**ACID CATALYSIS**

Synthesis of 7-Hydroxycoumarins catalysed by Solid Acid Catalysts, 225

ACID GROUP

Filling Carbon Nanotubes with Small Palladium Metal Crystallites: the Effect of Surface Acid Groups, 1355

ACID-BASE INTERACTIONA Li_2Br_2 Ring Trapped by *tert*-Butylaminotin(II)bromide and *tert*-Butylamine as found by X-Ray Crystallography, 213**ACIDITY** pK_a of Singly Reduced C_{60} Encapsulated in γ -Cyclodextrin, 759**ACIDITY CONSTANT**Thermodynamics of Benzylic C-H Activation in 18- and 19-Electron Iron Sandwich Complexes: Determination of pK_a values and Bond Dissociation Energies, 7**ACRYLATE**

Preparation of Thin Films with Well-defined Molecular Orientation of Chromophores by Polymerization of Liquid Crystalline Monomers in an Electric Field, 2195

ACRYLONITRILE

Hydroperoxides as Pseudohalides: Oxidation, Oxidative Alkylation, Acylation and Arylation of Acrylonitrile, 1399

ACTIVATION

Large Activation of Serine Proteases by Pretreatment with Crown Ethers, 255

C-H Activation and Nitrile Insertion Reactions of a Cationic Niobium Alkyldiene Complex, 2421

ACTIVATION ENERGY

Comparisons of Activation Energies for Dimethyl Sulfoxide

Rotations in the Inner Phase of Seven Carcerands, 1259

Comparisons of Activation Energies for Guest Escapes from the Inner Phases of Hemicarcerands with Varying Numbers of Bowl-linking Groups, 1515

ACYLA Zirconium Hydride Enolate from Carbonylation of the Alkyl Compound $[Zr\{C_5H_2(SiMe_3)_3-1,2,4\}_2(Me)_2]$, 2017**ACYL ANION EQUIVALENT**Generation of Acyl Anion Equivalents by *In Situ* Cathodic Reduction of Acyl Tributylphosphonium Ions Anodically Generated from Tributylphosphine and Carboxylic Acids: Preparation of α -Hydroxy Cycloalkanones from Keto Acids, 871**ACYL MIGRATION**Base-catalysed Acyl Migrations in *myo*-Inositol Dibenzoates, 13**ACYLATION**

Efficient Acylation of Hydroxy Functions by Means of Fmoc Amino Acid Fluorides, 2223

ACYLOXYSyntheses of Acyloxy Carbene Complexes $M(SnPh_3)(CO)_n\{C-(OCOR)Ph\}(\eta-C_5H_5)$ ($M = Mo, W, n = 2, R = Me; M = Fe, Ru, n = 1, R = Me, Ph, Bu^t$) and X-Ray Crystal Structures of $Fe(SnPh_3)(CO)\{C-(OCOR)Ph\}(\eta-C_5H_5)$ ($R = Me, Ph$), 1511**ACYLSILANE**Intramolecular Cyclizations of α -Stannyl Radicals to Acylsilanes: Regiospecific Syntheses of Five-membered Cyclic Silyl Enol Ethers, 981**ACYLTHIOHYDROXAMATE**Observations on the Reaction of *O*-Acylothiohydroxamates with Thionitrite Esters: a Novel Free Radical Chain Reaction for Decarboxylative Amination, 2385**ACYLVINYLRACIL**

Palladium-catalysed Synthesis of 6-(2-Acylvinyl)uracils, a group of Novel 6-Substituted Uracils of Biological Significance, 99

Corrigendum: Palladium-catalysed Synthesis of 6-(2-Acylvinyl)uracils, a group of Novel 6-Substituted Uracils of Biological Significance, 1195**ADAMANTANE**

Topological Equivalences between Organic and Inorganic Crystal Structures: 1,3,5,7-Tetrahydroxyadamantane and Caesium Chloride, 339

ADAMANTYL

Chemical and Bio-luminescent Properties of Coelenterazine Analogues Possessing an Adamantyl Group, 1335

ADDITION

New Trialkylsilyl Enol Ether Chemistry: Direct 1,2-Bis-azidonation of Triisopropylsilyl Enol Ethers: an Azido-radical Addition Process Promoted by TEMPO, 263

Reaction of [60]Fullerene with 1-(4-Methoxyphenyl)-1-(trimethylsilyloxy)ethylene, 367

Formation and Characterisation of $C_{70}Cl_{10}$, 683

Control of the Regioselectivity of N-Nucleophile Addition to N-Carbonyl Protected Dehydroalanines: a Model for the Ammonia-lyase Enzymes, 1061

An Alkylphosphonyl Nucleophilic Substitution Reaction that proceeds by an Elimination-Addition Mechanism with an Alkylideneoxophosphorane (Phosphene) Intermediate, 1701

COS Trapping by Palladium Pyrazolates: Addition vs. Clathration, 1955

ADENINEDirected Metallation of Adenine- N^3 via Nucleobase-Ligand Conjugation, 2285

ADENOPHOSTIN A

(2-Hydroxyethyl)- α -D-Glucopyranoside-2',3,4-trisphosphate:
Synthesis of a Second Messenger Mimic Related to Adenophostin
A, 1169

ADENOSINE

A Universal Solid-phase Synthesis of Branched Oligoribonucleotides,
495

Chemoenzymatic Synthesis of Analogues of the Second Messenger
Candidate Cyclic Adenosine 5'-Diphosphate Ribose, 1359

Formation of Singlet Oxygen in the Deoxygenation of Heteroarene
N-Oxides by Dimethyldioxirane, 1831

Multifunctional Molecular Recognition of ATP, ADP and AMP
Nucleotides by the Novel Receptor 2,6,10,13,17,21-Hexaaza[22]-
metacyclophane, 2237

ADSORPTION

Corrigendum: Selective Adsorption in Gold-Thiol Monolayers of
Calix-4-resorcinarenes, 291

AEROBIC OXIDATION

Metal-catalysed Enantiospecific Aerobic Oxidation of
Cyclobutanones, 1247

AEROGEL

Novel Mesoporous Titania-Silica Aerogels Highly Active for the
Selective Epoxidation of Cyclic Olefins, 163

Selective Epoxidation of α -Isophorone with Mesoporous Titania-
Silica Aerogels and *tert*-Butyl Hydroperoxide, 2487

AGGREGATION

Synthesis and Aggregation Properties of Novel Soluble 'Crowned'
Metallotriazolehemiporphyrazines, 419

Hydrogen-bonding Control of Molecular Aggregation: Self-
complementary Subunits lead to Rod-shaped Structures in the Solid
State, 1251

Closed-shell Ion Pair Aggregation in Non-Polar Solvents
characterized by NMR Diffusion Measurements, 2513

AGLYCONE

Synthetic Studies Related to the Esperamicin/Calicheamicin
Aglycone: Efficient Construction of a Homochiral Oxabicyclo
[7:3:1] Analogue from D-Xylose, 799

ALANINE

Control of the Regioselectivity of N-Nucleophile Addition to
N-Carbonyl Protected Dehydroalanines: a Model for the
Ammonia-lyase Enzymes, 1061

ALCOHOL

Tertiary Alcohol Synthesis from Secondary Alcohols *via* C-H
Insertion, 321

Anthraquinone-Steroid based Gelators of Alcohols and Alkanes, 375

Optically Active Diazacyclophosphamides: Novel Efficient Reagents
for the Determination of the Absolute Configuration of Amines
and Alcohols, 435

Reduction of Carboxylates to Alkanols catalysed by *Colletotrichum*
gloeosporoides, 439

Nucleophilic Substitution of (Alkoxy)methylene)dimethylammonium
Chloride with Carboxylate Salts: a Convenient Procedure for the
Synthesis of Esters with Inversion of Configuration, 1403

Chirality Inversion in HZSM-5 and Nafion-H Solid Acid-catalysed
Synthesis of Ethers from Alcohols *via* Surface S_N2 Reaction, 1849

Metal Ion Promoted Attack of an Alcohol on a Phosphate Diester:
Modeling the Role of Metal Ions in RNA Self-splicing Reactions,
2431

ALDEHYDE

A Crystallographic Map of Chiral Recognition in π Complexes of
Aromatic Aldehydes and a Chiral Transition Metal Lewis Acid:
Enantioface Binding Selectivities in Solution Correlate to Distances
between Metal and Carbon Stereocentres in the Solid State, 279

[NiCl₂(PPh₃)₂] catalysed Transfer Hydrogenation of Ketones and
Aldehydes by Propan-2-ol, 465

Indium-mediated Coupling of Aldehydes with Prop-2-ynyl Bromides
in Aqueous Media, 1003

Palladium- and Platinum-catalysed Addition of Aldehydes with
Allylstannanes, 1273

The Synthesis of Novel 3,4-Dihydro-1,2,5,7,4-tetroxazocine
Derivatives *via* Extended [3 + 3 + 2] Cycloaddition Reactions
between a Carbonyl Oxide, a Nitrene and an Aldehyde, 1469

Diastereoselective [2 + 2] Cycloaddition of Dichloroketene with
 α -Oxyaldehydes and α -Amino Aldehydes, 1735

Aldehyde-functionalized Ethoxysilanes as New Enzyme
Immobilization Reagents, 2323

ALDOL

An Unprecedented DBU-MeOH Promoted One-pot
 γ -Arylidation of Cyclic β -Ketoesters by a Directed γ -Aldol
Reaction and Dehydration Sequence, 33

Aldol Reactions of Ethyl *N*-Benzyl-*N*-methylglycinate and of its
Borane Adduct: Selective Access to *Syn* or *Anti* α -Amino- β -
hydroxyesters, 487

The Aldol Reaction with Difluoroenolates, 757

A Novel Highly Stereoselective Synthesis of the A-ring of Taxol *via*
Two Aldol Reactions, 1693

New Strategy for the Synthesis of the Taxane Diterpenes: Formation
of the A-Ring *via* Nitro-aldol and Aldol Reactions, 1933

Reagent Control of Cram-type Selectivity in the Mukaiyama Aldol
Catalysed by Supersilylating Agents, 2173

ALIZARIN RED

Regioselective Catalytic Deuteration of Phospholipids—Unusual
Mechanistic Aspects of Homogeneous Hydrogenation, 2299

ALKALI METAL

An Electron-transfer Induced Reaction Path Controlled by Ion-pair
Formation: an ESR/ENDOR Study of Furan Carbaldehydes and
their Reactivity, 803

Investigation of the Influence of the Cations to Normal Modes of Y
Zeolites: Vibrational Studies and Computer Simulations, 2481

Self-Assembly in Organic Solvents of a Deoxyguanosine Derivative
Induced by Alkali Metal Picrates, 2555

ALKALOID

The Biosynthesis of Tropic Acid: The (*R*)-D-Phenylactyl moiety is
processed by the Mutase involved in Hyoscyamine Biosynthesis in
Datura stramonium, 127

The Biosynthesis of Tropic Acid: The Stereochemical Course of the
Mutase involved in Hyoscyamine Biosynthesis in *Datura*
stramonium, 129

An Enantiospecific Synthesis of the Tricyclic Guanidine Segment of
the Anti-HIV Marine Alkaloid Batzelladine A, 1369

Stereoselective Preparation of the *ABCE* Tetracycle of
Aspidospermidine and Related Alkaloids, 1409

First Total Synthesis of (\pm)-Melinonine-E, 2141

A Straightforward Route to Ibophyllidine Alkaloids by a Double
Transannular Cyclization, 2317

Trifluoromethanesulfonic Anhydride-4-(*N,N*-Dimethylamino)-
pyridine as a Reagent Combination for Effecting Bischler-
Napieralski Cyclisation under Mild Conditions: Application to
Total Syntheses of the *Amaryllidaceae* Alkaloids
N-Methylcrinasiadine, Anhydrolycorinone, Hippadine and
Oxoassoanine, 2551

ALKANE

Photoinduced SET for the Functionalization of Alkanes, 41

Anthraquinone-Steroid based Gelators of Alcohols and Alkanes, 375

Alkane Hydroxylation by a Manganese Analogue of the Iron Core
from Methane Monooxygenase, 531

Oxidation of C₂, C₃ and Higher Alkanes by a Ruthenium-Oxo
System, 943

Activation and Functionalisation of the C-H Bonds of Methane and
Higher Alkanes by a Silica-supported Tantalum Hydride Complex,
991

Induced Homolysis of Dimethyldioxirane by Alkanes and Alkyl
Radicals in Oxidation Processes. The Dramatic Role of Molecular
Oxygen and Radical Inhibitors, 1573

ALKENE

Transition Metal Substituted Keggin Type Polyoxomolybdates as
Bifunctional Catalysts for the Epoxidation of Alkenes by Molecular
Oxygen, 171

Synthesis of Sugar Episulfides and Olefins from *vic*-Diols *via* Cyclic
Sulfates, 461

A New Titanium-Silica Catalyst for the Epoxidation of Non-
functionalized Alkenes and Allylic Alcohols, 539

Aryloxo Ligand Dependent Reactivity of Tantalum Dihydride
Compounds with Alkenes, 553

Alkene Metathesis on Photoirradiated Silica Surface, 761

Formation of *cisoid*- $\eta^4(5e)$ -Butadienylrhenium Complexes by
Coupling of Alkene and Alkyne Ligands, 767

Aziridination of Alkenes using 3-Acetoxyaminoquinazolin-4-(3*H*)-
ones in the Presence of Tertiary Amines: Evidence for an Azaimide
(*N*-Nitrene) Intermediate, 819

Metathesis of Phosphorus-containing Olefins catalysed by a
Cyclometallated Aryloxo(chloro)neopentylidene-Tungsten
Complex, 857

Novel Hydroboration of Highly Substituted Alkenes catalysed by
Borohydride Complexes of Uranium, Neodymium and Zirconium,
979

Light Olefin Synthesis from Carbon Dioxide by Hydrogenation over
Fe₃(CO)₁₂ Supported on ZSM-5 Zeolite Catalyst, 1025

Intermolecular Cycloaddition Reaction of Unactivated Alkenes and
o-Quinone Methides generated by Electrochemical Oxidation: a
Proposed Biomimetic Approach to the Euglobin Skeletons, 1381

Selective Hydrogenations of Dienes and Olefins by [W₂(OCH₂Bu^t)₆-
(py)₂], 1599

A Structurally Characterized Dichloro-manganese(IV) Complex
Capable of Halogenating Alkenes, 2015

Preparation of Cationic (*E*)- σ -Alkenyl Palladium Complexes having a
P-O-N or a P-O-P Tridentate Ligand as a Stabilized Intermediate
of Palladium-catalysed Stereoselective Addition of Methanol to
Acetylenes: Characterisation, X-Ray Analysis and the Reaction
Pathway, 2099

Alkene Oxidation in Water using Hydrophobic Silica Particles
derivatized with Polyoxometalates as Catalysts, 2277

ALKOXIDE

Reaction of Sodium Alkoxides with [60]Fullerene: Formation of a
1,3-Dioxolane Derivative and Involvement of O₂ in a Nucleophilic
Addition Reaction of C₆₀, 1071

- Complete Retention of Configuration in the Nucleophilic Substitution of 1-Phenylbenzo[*b*]thiophenium Salts by Alkoxide Anions, 1375
- Synthesis, Crystal, Molecular and Electronic Structure of a Novel Heterobinuclear Alkoxide Cluster [(MeO)₂ReO(μ-OMe)₃MoO(OMe)₂], 1779
- Metal-assisted Activation of the C–O Bond of 2-Hydroxyethylmethacrylate. Synthesis and Molecular Structure of Ti₅(OPr)₉(μ-OPr)₁(μ,η²-OC₂H₄O)(μ₃,η²-OC₂H₄O)₃(μ₄,η²-OC₂H₄O), 1817
- Intercalation of Oxide into [Zr(C₅Me₅)F₃], 2145
- ALKOXSILYL**
Reactivity of Heterobimetallic Alkoxysilyl and Siloxyl Complexes in the Dehydrogenative Coupling of Stannanes, 1455
- ALKYL AMIDE**
Reductive Alkylation of 9-Amino-xanthen-3-yloxymethylpoly(styrene): a Novel Procedure for the Synthesis of Peptidyl *N*-Alkyl Amides by Fmoc/Bu^t Chemistry, 1475
- ALKYL FLUORIDE**
Observations on the Reaction of Xanthate Esters with 4-Methyl-(difluoroiodo)benzene: a New Method for the Conversion of Alcohols to Alkyl Fluorides, 1241
- ALKYLAMINE**
Molecular Assembly Recognition Process. Carbon Number Selective Intercalation of Amines by a Layered Zirconium Phosphonate, 75
- ALKYLATION**
Regioselective *N*-Alkylation of Imidazoles with Alcohols over Zeolites, 9
- Mesoporous Aluminosilicate MCM-41 as a Convenient Acid Catalyst for Friedel–Crafts Alkylation of a Bulky Aromatic Compound with Cinnamyl Alcohol, 519
- The First X-Ray Crystal Structure of an *O*-Alkyl Aminosulfoxonium Salt: Conclusive Evidence for *O*-Alkylation of Sulfinamides and Planarity of Nitrogen, 647
- New Chiral β-Phosphinocarboxylic Acids and their Application in Palladium-catalysed Asymmetric Allylic Alkylations, 1845
- Environmentally Friendly Catalysis using Supported Reagents: Evolution of a Highly Active Form of Immobilised Aluminium Chloride, 2037
- ALKYLHYDRIDE**
Structure and Dynamics of Intermediates in Asymmetric Hydrogenation by Rhodium Complexes of (2-Methoxyphenyl)-*P*-phenyl-*P*-(2'-diphenylphosphino)ethylphosphine, 2469
- ALKYLHYDROPEROXIDE**
Transition Metal Substituted Keggin Type Polyoxomolybdates as Bifunctional Catalysts for the Epoxidation of Alkenes by Molecular Oxygen, 171
- ALKYLIDENE**
Intermolecular C–H Activation by Reactive Titanocene Alkylidene Intermediates, 145
- Synthesis of Functionalized Pyrrolidines from *N*-(Benzylidene)- and *N*-(Alkylidene)-homoallylamines, 2029
- C–H Activation and Nitrile Insertion Reactions of a Cationic Niobium Alkylidene Complex, 2421
- ALKYLIDENEPHOSPHIRANE**
Synthesis of Alkylidenephosphiranes by Extrusion of Nitrogen from 3-Alkylidene-4,5-dihydro-3*H*-1,2,4-diazaphospholes, 25
- ALKYLIDYNE**
From Butadiynyl (–C≡C–C≡CR) Ligands to Alkylidyne–Carbides: Synthesis and Characterisation of the Unusual Hexanuclear Ruthenium Carbido Clusters [Ru₆(CO)₁₃(μ-CO)₂(μ-PPh₂)(μ₅-C)-(μ₃-C–C≡CR)] (R = Bu^t, Ph), 327
- Polyacrylate Resins bearing the Transition Metal Cluster Unit Co₃(CO)₉C, 2117
- ALKYLTHIOPHENE**
The Tuning of Conjugation by Recipe: the Synthesis and Properties of Random Head-to-tail Poly(3-alkylthiophene) Copolymers, 135
- ALKYNE**
Cooperative C≡C–H⋯C≡C–H Interactions: Crystal Structure of *dl*-Prop-2-ynylglycine and Database Study of Terminal Alkynes, 95
- Cycloaddition of Zirconacyclopentadienes to Alkynes using Copper Salts: Formation of Benzene Derivatives, 361
- Ruthenium Complex-catalysed Addition of *N*-Aryl substituted Amides to Alkynes: Novel Synthesis of Enamides, 413
- Re-identification of the Major Volatile Carbaboranes from the Gas-phase Reactions of Tetraborane(10) and Alkynes at 50 °C, 667
- Hydro-sulfination of Alkynes: Synthesis of Vinyl Sulfinato Complexes of Ruthenium(II), 741
- Formation of *cisoid*-η⁴(5e)-Butadienylrhenium Complexes by Coupling of Alkene and Alkyne Ligands, 767
- Monomeric Bis(η²-alkyne) Complexes of (η¹-Mesityl)copper(I) and (η¹-Mesityl)silver(I) Obtained from a Bis(alkynyl)titanocene; X-Ray Structure of [(η⁵-C₃H₄SiMe₃)₂Ti(C≡CSiMe₃)₂Cu(η¹-Mes)(Mes = C₆H₂Me₃-2,4,6)], 925
- The *cis*-Insertion of Diphenylacetylene into an *exo*-Polyhedral Boron–Hydrogen Bond of a Molybdenacarbaborane Cage, 985
- Zirconium-promoted Intramolecular Cyclization of Terminal Alkynes and Unusual Carbonylation Reaction, 1009
- Oligomerisation of Phenylacetylene at a Polynuclear Site: the Molecular Structure of [Ru₆C(CO)₁₂(μ₂-CO)(η⁵-C₅H₃Ph₂)(μ₃-CPh)], 1263
- Use of Trimethylamine *N*-Oxide in the Controlled Air-oxidation of Metal Carbonyl Complexes; Synthesis and Crystal Structure of a Novel Organometallic Oxo Complex of Dimolybdenum, 1269
- A Simple Method for the Preparation of 1,3-Dithiol-2-ones, 1429
- Facile Insertion of Alkynes into Ir–P (Phosphine) and Ir–As (Arsine) Bonds: Second and Third Alkyne Addition to Mononuclear Iridium Complexes, 1495
- An Alkyne Group with a Pair of Hydrogen Bonds: the Crystal Structure of 2,2'-Ethylnedibenzeneboronic Acid at 122 K, 1499
- Germlylformylation of Terminal Alkynes Catalysed by a Zwitterionic Rhodium(I) Complex, 1601
- Cyclotrimerization of Alkynes with [60]Fullerene in the Presence of Tricyclohexylphosphine, 1603
- Chemistry of μ-η¹:η²_{α,β}-Butadiynyls: Chain Extension on C₄ Polycarbon Ligands, 2165
- ALKYNYL**
A Novel Route to Efficient Inorganic Oxide Surface Modifications: Molecularly Self-assembled Linear and Conjugated Alkynyl Thin Film Materials, 907
- ALKYNYL TRANSFER**
[*cis*-Pt(C₆F₅)₂(C≡CPh)₂]²⁻ as a Double Alkynyl Transfer Reagent. Synthesis and Characterization of the Ir(III)–Pt(II) Tweezer Complex {[η⁵-C₅Me₅](PEt₃)Ir(C≡CPh)₂}Pt(C₆F₅)₂}, 1227
- ALKYNYLIATION**
Iodination and Heck Alkynylation of 5,15-Diphenylporphyrin. A Convenient Entry to Asymmetrically *meso*-Substituted Porphyrins, 527
- ALLENE**
Palladium catalysed Cyclisation–Amination of Allenes—Effect of Base on Regioselectivity of Formation of Allylic Amines, 1903
- ALLENYL**
Mutual Isomerization of η¹-Allenyl and η¹-Propargyl Complexes of Platinum *via* a Five-coordinate η³-Allenyl/propargyl Intermediate, 2485
- ALLENYLIDENE**
Corrigendum: Allenylidene Indenyl Ruthenium(II) Complexes as Sources of Highly Functionalized Alkynyl Complexes: Synthesis of the First Bimetallic Derivatives containing a Vinylidene–Carbene Bridge, 291
- A Synthetic Route to Allenylidene Tetrahydrofurans, 897
- A Versatile Synthetic Method for Diiron Bridging Allenylidene Complexes (η⁵-C₅Me₅)₂Fe₂(μ-CO)(CO)₂(μ-η¹:η¹-C=C–CR¹R²) *via* Nucleophilic Addition to the Ethynediyliron Complex (μ-C≡C)[Fe(η⁵-C₅Me₅)(CO)₂]₂, 1611
- ALLYL**
Nickel-catalysed Substitution Reactions of Allylic Compounds with Soft Nucleophiles: an Efficient Alternative to Palladium Catalysis, 1863
- ALLYL ALCOHOL**
Cyclopentaannulation of Allyl Alcohols *via* a Radical Cyclisation Reaction. Total Synthesis of 4-Epibakkenolide-A, 469
- Supramolecular Approach to Metal–Support Interactions: Formation and Decarbonylation of Allyl Alcohol by an Oxide-supported (σ-Allyl)rhodium(III) Complex, 1875
- ALLYL ETHER**
Nickel-catalysed Electrochemical Reductive Deprotection of Allyl Ethers, 2497
- ALLYL OXIME**
Organoselenium-induced Stereoselective Cyclisation of *O*-Allyl Oximes: A New Synthetic Route to Isoxazolidines, 235
- ALLYL RADICAL TRANSFER**
Monoalkylstannanes as a New Source of Allyl Radical Transfer, 2387
- ALLYLIATION**
α-Regioselective Carbonyl Allylation by an Allylic Tin Compound Prepared from 1-Bromobut-2-ene and Tin(II) Bromide at a Nonpolar Organic–Aqueous Interface, 1405
- Direct Allylation of Aromatic Compounds with Allylic Chloride using the Supported Reagents System ZnCl₂/SiO₂–K₂CO₃/Al₂O₃, 1895
- ALLYLIC**
Evidence for a Concerted S_N2' Mechanism in the Gas-Phase Acid-induced Nucleophilic Substitutions on Allylic Substrates, 547
- ALLYLIC ALCOHOL**
Allylic Alcohols by Methylene Transfer from *N*-Lithiomethyl-*N,N',N'',N''*-tetramethyldiethylenetriamine to Epoxides, 513
- ALLYLIC ALKYLATION**
New Chiral β-Phosphinocarboxylic Acids and their Application in Palladium-catalysed Asymmetric Allylic Alkylations, 1845
- ALLYLIC CATION**
Characterization of Persistent α,ω-Diphenyl Substituted Allyl Cations within Monodirectional Acid Zeolites, 2477
- ALLYLSILANE**
Stereoselective Allylsilane Additions to α-Diketone Diketals, 607

ALLYLSTANNANE

Palladium- and Platinum-catalysed Addition of Aldehydes with Allylstannanes, 1273

Palladium Catalysed Direct Allylation of Pronucleophiles with Allylstannanes, 2013

ALLYLTRICARBONYL

Synthesis of β -Dimorphelic Acid exploiting Highly Stereoselective Reduction of a Side-chain Carbonyl Group in a π -Allyltricarbonyliron Lactone Complex, 1751

ALPO

The Pore Size Modification of a Layered Aluminophosphate [Al₃P₄O₁₆C₉H₂₄N₃] by Rational Selection of the Intercalated Template Cation, 1979

ALUMINA

Direct Allylation of Aromatic Compounds with Allylic Chloride using the Supported Reagents System ZnCl₂/SiO₂-K₂CO₃/Al₂O₃, 1895

Dismutation of CFC-12 to CFC-13 over Chromia-Alumina Catalyst, 2377

ALUMINIUM

Hydrogenation of Halophenols to Cyclohexanols Using Raney Nickel-Aluminium Alloy in Saturated Ba(OH)₂ Solution under Mild Conditions, 209

Structure of Aluminium Methylphosphonate, AlMepO- β , with Unidimensional Channels formed from Ladder-like Organic-Inorganic Polymer Chains, 1033

Monomeric Selenolato- and Telluroolato-aluminium(III) and -gallium(III) [Me₃NM(ER)₃] (E = Se, Te; R = Alkyl, Aryl), via Trimethylamine Alane/Gallane Cleavage of Diorgano-dichalcogens, 1457

The Pore Size Modification of a Layered Aluminophosphate [Al₃P₄O₁₆C₉H₂₄N₃] by Rational Selection of the Intercalated Template Cation, 1979

Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu-Mg-Al Hydrotalcite, 2057

On the Feasibility of Iron or Chromium Substitution for Aluminium in the Al₁₃-Keggin Ion, 2269

Decisive Role of a Phenyl Group at the α -Position of Benzoylacetone in the Solvent Extraction of Al³⁺ and In³⁺, 2271

Novel Ionic Media for Liquid Lasers, 2369

ALUMINIUM CHLORIDE

Ring Expansion or Spirocyclisation of (Phenylthiomethylene)-cycloalkanes with Aluminium Chloride via β -Thio Carbocations, 993

Environmentally Friendly Catalysis using Supported Reagents: Evolution of a Highly Active Form of Immobilised Aluminium Chloride, 2037

ALUMINIUM PHOSPHATE

A Novel Layered Aluminium Phosphate [Co(en)₃Al₃P₄O₁₆·3H₂O] Assembled about a Chiral Metal Complex, 425

ALUMINOPHOSPHATE

Titanium Substitution in Silicon-free Molecular Sieves: Anatase-free TAPO₄-5 and TAPO₄-11 Synthesis and Characterisation for Hydroxylation of Phenol, 373

Synthesis of SiVPI-5 with Enhanced Activity in Acid Catalysed Reactions, 731

The Synthesis and Structure of a Chiral Layered Aluminophosphate containing the Template Co(tn)₃³⁺, 2059

Synthesis of CoVPI-5 with Bifunctional Catalytic Activity, 2255

Probing the Onset of Crystallization of a Microporous Catalyst by Combined X-ray Absorption Spectroscopy and X-ray Diffraction, 2549

ALUMINOSILICATE

Novel Large-pore Vanadium Alumino- and Boro-silicates With BEA Structure, 207

Mesoporous Aluminosilicate MCM-41 as a Convenient Acid Catalyst for Friedel-Crafts Alkylation of a Bulky Aromatic Compound with Cinnamyl Alcohol, 519

Large Pore Bifunctional Titanium-Aluminosilicates: the Inorganic Non-enzymatic Version of the Epoxidase Conversion of Linalool to Cyclic Ethers, 1635

A Layered Microporous Aluminosilicate Precursor of FER-type Zeolite, 2187

AMARYLLIDACEAE

Trifluoromethanesulfonic Anhydride-4-(*N,N*-Dimethylamino)-pyridine as a Reagent Combination for Effecting Bischler-Napieralski Cyclisation under Mild Conditions: Application to Total Syntheses of the *Amaryllidaceae* Alkaloids *N*-Methylcrinasiadine, Anhydrolycorinone, Hippadine and Oxoasosanine, 2551

AMIDE

A Novel Receptor for Amino Acid Derivatives, 305

Ruthenium Complex-catalysed Addition of *N*-Aryl substituted Amides to Alkynes: Novel Synthesis of Enamides, 413

Orbiting of the Lithium Atom in the [Me₂Si(NSiMe₃)₂]₂Li Molecule: Theoretical Confirmation, 443

Reductive Alkylation of 9-Amino-xanthen-3-yloxymethylpoly(styrene): a Novel Procedure for the Synthesis of Peptidyl *N*-Alkyl Amides by Fmoc/Bu^t Chemistry, 1475

A Novel Type of Small Organic Gelators: Bis(Amino Acid) Oxalyl Amides, 1723

Dis-assembling Lithium Amide Ladder Structures: Structural Elucidation of the Lithium Anilide Solvate [{PhN(H)Li}₆·8THF}], a Model Intermediate *En route* to Forming Tetra-solvated Ring Dimers, 2011

The First Example of a Transoid Amide (Imide) in an Eight-membered Lactam, 2325

AMIDINE

Conformationally Biased Tri- and Di-basic 1,3,5-Triazacyclohexyl Ligands, 2361

AMIDOZINCATE

Heteroleptic Metallocyclic Potassium Organodiamido Zincate Complex. Synthesis and Structure of Polymeric {[K(thf)][MeZn-(Bu^tNCH=CHNBu^t)]_n}, 1839

AMINATION

Observations on the Reaction of *O*-Acylothiohydroxamates with Thionitrite Esters: a Novel Free Radical Chain Reaction for Decarboxylative Amination, 2385

AMINE

Authentication of a Sodium Primary Phosphide: Synthesis and Crystal Structure of [Na{PH(C₆H₁₁)}(pmdeta)]₂ (pmdeta = *N,N,N',N'*-pentamethyldiethylenetriamine), 47

Use of Dioxiranes for the Chemoselective Oxidation of Tertiary Amines bearing Alkene Moieties, 293

Methyl Hydrazine as a Building Block for a Bridge Between Phosphinoamine [R₂P-N(R)-PR₂] and Phosphorus Hydrazide [R₂P-N(R)-N(R)-PR₂]. Synthesis and Coordination Chemistry of a Novel Triphosphine [(Me₂P)₂N-N(Me)(PMe₂)], 317

Optically Active Diazacyclophosphamides: Novel Efficient Reagents for the Determination of the Absolute Configuration of Amines and Alcohols, 435

Aldol Reactions of Ethyl *N*-Benzyl-*N*-methylglycinate and of its Borane Adduct: Selective Access to *Syn* or *Anti* α -Amino- β -hydroxyesters, 487

Corrigendum: Intramolecular Generation and Rearrangement of Ammonium Ylides from Copper Carbenoids: a General Method for the Synthesis of Cyclic Amines, 503

Allylic Alcohols by Methylene Transfer from *N*-Lithiomethyl-*N,N',N'',N'''*-tetramethyldiethylenetriamine to Epoxides, 513

Aziridination of Alkenes using 3-Acetoxyaminoquinazolin-4-(3*H*)-ones in the Presence of Tertiary Amines: Evidence for an Azamide (*N*-Nitrene) Intermediate, 819

Platinum Catalysed Regioselective *ortho*-Silylation of Benzylieneamines via Intramolecular C-H Activation, 1129

Localized Basification of Catalytic Surfaces enhances the Selective Oxidation of L-Sorbose over Supported Pt Catalysts modified with Tertiary Amines, 1377

Novel Ligand Transformations in Cluster Complexes. Activation of C-F Bonds in a Perfluorovinyliron(I) Complex by Primary and Secondary Amines, 1431

Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Direct Oxidation of Primary Amines to Nitro Compounds with TBHP, 1523

Palladium catalysed Cyclisation-Amination of Allenes—Effect of Base on Regioselectivity of Formation of Allylic Amines, 1903

A New Synthesis of Aliphatic Isothiocyanates from Primary Amines, Convenient for *In Situ* Use, 1995

Switching of Two Amine Ligands via an S_N2-type Mechanism in a Coordinated Form of 2,6-Bis(*N,N*-dimethylaminomethyl)-phenylboronates, 2499

AMINO ACID

Epimerisation-free Peptide Formation from Carboxylic Acid Anhydrides and Azido Derivatives, 91

An Asymmetric Synthesis of Novel Aminocyclopropyl Carboxylic Acids (ACC), 141

A Novel Receptor for Amino Acid Derivatives, 305

Diastereoselective Radical Addition to Methyleneoxazolidinones: an Enantioselective Route to α -Amino Acids, 549

Fast Synthesis of Amino Acid Salts and Lactams without Solvent under Microwave Irradiation, 1101

Lithium (α -Methylbenzyl)allylamide: A Differentially Protected Chiral Ammonia Equivalent for the Asymmetric Synthesis of β -Amino Acids and β -Lactams, 1109

Synthesis of 7-, 8- and 9-Membered Rings via *Endo* Heck Cyclisations of Amino Acid Derived Substrates, 1743

Aza-[2,3]-Wittig Sigmatropic Rearrangement of Crotyl Amines, 1835

Stereoselective Synthesis of α -Alkylated γ,δ -Unsaturated Amino Acids via Claisen Rearrangement of Chelated Enolates, 1991

Enantioselective Binding of α -Amino Acids at Poly(L-glutamic acid)-functionalized Monolayer Surfaces, 2119

Efficient Multi-point Interaction between Peptide Catalysts and Amino Acid Esters in a Bilayer Vesicular Membrane for Highly Stereoselective Hydrolysis Reactions, 2301

AMINO ACID ESTER

A Zinc(II)-organized Molecular Receptor as a Catalyst for the Cleavage of Amino Acid Esters, 1163

AMINO ACID FLUORIDE

Peptide Assembly in the Absence of Base *via* Fmoc Amino Acid Fluorides, 669

AMINO EFFECT

Vilsmeier Formylation of *para*-Substituted *tert*-Anilines Results in Dibenzol[1,5]diazocines or Quinazolinium salts: a Remarkable Example of the '*t*-Amino Effect', 1463

AMINO KETONE

A Novel Mannich-type Reaction in Aqueous Media. Lanthanide Triflate-catalysed Condensation of Aldehydes, Amines and Vinyl Ethers for the Synthesis of β -Amino Ketones, 1379

AMINO PROTECTING GROUP

New Photolabile Amino Protecting Groups: Photogeneration of Amines from [(3',5'-Dimethoxybenzoinyl)oxy]carbonyl Carbamates, 923

AMINO BENZYL

A Novel 4-Aminobenzyl Ester-based Carboxy-protecting Group for Synthesis of Atypical Peptides by Fmoc-Bu^t Solid-phase Chemistry, 2209

AMINO BUTADIENE

Unexpected and Easy Annulation of Fischer-type Phenylethenyl Carbene Complexes, 1973

AMINO PHOSPHINE

A New P-Chiral Aminophosphine Ligand Containing a 2,2'-Coupled Pyrrolidine-Phospholane Ring System. Synthesis and Coordination Properties with Rhodium(I) and Iridium(I) Fragments, 833

AMINO SULFOXONIUM

The First X-Ray Crystal Structure of an *O*-Alkyl Aminosulfoxonium Salt: Conclusive Evidence for *O*-Alkylation of Sulfinamides and Planarity of Nitrogen, 647

AMINO TRIPHENYL PHOSPHONIUM

Unexpected Staudinger Reaction of α -Azidophenylacetonitrile and Triphenylphosphine: Synthesis and Crystal Structure of Aminotriphenylphosphonium Salt of Phenylmalononitrile, 1387

AMMONIA

Synthesis of Methylamines from Carbon Dioxide and Ammonia, 73

NH₃ Formation during the Reduction of Nitrogen Monoxide by

Propane on H-Cu-ZSM-5 in Excess Oxygen, 89

Geometric and Electric Properties of the Donor-Acceptor Complex H₃N-BF₃, 113

Preparation, Spectra and X-Ray Structure of an Archetypal Coordination Compound [BCl₃(NH₃)] and its Thermolysis, 855

(NH₃)₆Na₃C₆₀: Room-temperature Synthesis of a Body-centred Cubic C₆₀³⁻ Compound, 2131

Selective Production of Hydrazine by a Catalytic Oxidation Process over Ti-, V-, Vi-V- and Ti-B-Silicalites, 2281

AMMONIUM

Metal-Ammonium Cooperativity in Phosphodiester Hydrolysis, 1205

Simultaneous Binding of Boron and Ammonium Cation by a Pseudocryptand: Synthesis, X-Ray Analysis and Solution Studies by NMR Spectroscopy, 1505

Cation- π Interaction between the Trimethylammonium Moiety and the Aromatic Ring within Indole-3-acetic Acid Choline Ester, a Model Compound for Molecular Recognition between Acetylcholine and its Esterase: an X-Ray Study, 2221

AMPHIDINOLIDE J

Biosynthetic Studies of Amphidinolide J: Explanation of the Generation of the Unusual Odd-numbered Macrocylic Lactone, 1639

AMPHIPHILE

Vesicle Formation from Dimeric Surfactants through Ion-pairing. Adjustment of Polar Headgroup Separation leads to Control over Vesicular Thermotropic Properties, 651

ANABAENA FLOS-AQUAE

Biosynthesis of Anatoxin-a in *Anabaena flos-aquae* and Homoanatoxin-a in *Oscillatoria formosa*, 1361

ANATOXIN

Biosynthesis of Anatoxin-a(s). (2*S*,4*S*)-4-Hydroxyarginine as an Intermediate, 205

A Concise Asymmetric Synthesis of (-)-Anatoxin-a using an Enantioselective Enolisation Strategy, 831

Biosynthesis of Anatoxin-a in *Anabaena flos-aquae* and Homoanatoxin-a in *Oscillatoria formosa*, 1361

A Short and Efficient Route to (\pm)-Anatoxin-a, 1461

ANCHIMERIC ASSISTANCE

Hydride Ion Transfer Reactions in the Gas Phase. Pressure Dependence of Reaction Efficiency as a Criterion for the Recognition of Anchimeric Assistance, 121

ANGUSTINE

Regioselective Syntheses of the Indolopyridine Alkaloids Nauclefine, Angustine, Dihydroangustine and Nauclefine from a Common Intermediate, 1675

ANHYDROSUGAR

A Stereoselective and Preparative Entry to 1,2-Anhydrosugars through Oxidation of Glycols with Perfluoro-*cis*-2,3-dialkylloxaziridines, 901

ANIGOZANTHOS PREISSII

A Diarylheptanoid Intermediate in the Biosynthesis of Phenylphenalenones in *Anigozanthos preissii*, 525

ANILIDE

Lithium Anilide Complexed by pmdeta: Expectation of a Simple Monomer, but in Reality an Odd Trinuclear Composition Combining Three-, Four- and Five-coordinate Lithium, 891

ANILINE

3,1-Benzoxazin-4-ones, 3,1-Benzothiazin-4-ones and *N*-Arylcyanothioformamides, 1419

ANION ENCAPSULATION

Caged Anions: Perchlorate and Perfluoroanion Cryptates, 1649

ANION EXCHANGE

Anion Exchange Membranes for Nitrate Ion Removal from Groundwater by Electrodialysis, 1153

ANION RECOGNITION

Spectral and Electrochemical Anion Sensing by a Novel 5,10,15,20-Tetrakis(*R*-substituted) Porphyrin Receptor [R = C₆H₄NHC(O)-C₅H₄CoC₅H₅⁺PF₆⁻], 1187

ANION SALT

Corrigendum: A New Method for the Preparation of Fullerene Anion Salts: Synthesis and Characterization of KC₆₀(THF), 605

ANIONIC SURFACTANT LIGAND

Rate-enhancing Multi-site Interaction in the Hydrolysis of a Cationic Ester Catalysed by a Cu²⁺ Complex of an Anionic Surfactant Ligand in Anionic Sodium Dodecyl Sulfate Micelles, 691

ANISOLE

Regioselective Acylation of Anisole with Carboxylic Acids over HZSM-5 Catalyst, 2307

ANNULATION

[3 + 2] Annulation of Allylidene(triphenyl)phosphorane with 1,2-Diacylethylenes: Synthesis of Substituted Cyclopentadienes, 449

Highly Regio- and Stereo-selective Annulation-Elimination Reactions of 1-Cycloalkenyl 3-Hydroxypropyl Ethers, 1117

Unexpected and Easy Annulation of Fischer-type Phenylethenyl Carbene Complexes, 1973

Optically Active Naphthalene-Cr(CO)₃ Complexes *via* Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535

ANNULENE

Diepoxyl[15]annulenes undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by ¹³C/¹⁷O NMR Spectroscopy, 1213

ANTHRACENE

Kinetic and Standard Thermodynamic Parameters of Photoinduced Charge Separation Reactions in a Bichromophoric Anthracene-containing Molecule from Time-resolved Fluorescence Measurements in Different Solvents and Solvent Mixtures and at Different Temperatures, 2171

The Structures of Solvent-separated Naphthalene and Anthracene Radical Anions, 2393

ANTHRANILIC ACID

3,1-Benzoxazin-4-ones, 3,1-Benzothiazin-4-ones and *N*-Arylcyanothioformamides, 1419

ANTHRAQUINONE

Anthraquinone-Steroid based Gelators of Alcohols and Alkanes, 375

ANTI-HIV

An Enantiospecific Synthesis of the Tricyclic Guanidine Segment of the Anti-HIV Marine Alkaloid Batzelladine A, 1369

ANTIBODY

A Cyclization Reaction Catalysed by Antibodies, 39

First Example of an Antibody-catalysed Hetero-Diels-Alder Reaction, 571

Corrigendum: A Cyclization Reaction Catalysed by Antibodies, 911

Improved Tumour Targeting with Recombinant Antibody-Macrocyclic Conjugates, 1877

ANTICANCER

Palladium-catalysed Synthesis of 6-(2-Acylvinyl)uracils, a group of Novel 6-Substituted Uracils of Biological Significance, 99

Isolation and Structure of Halistatin 3 from the Western Pacific (Chuuk) Marine Sponge *Phakellia* sp., 383

Corrigendum: Palladium-catalysed Synthesis of 6-(2-Acylvinyl)-uracils, a group of Novel 6-Substituted Uracils of Biological Significance, 1195

ANTIFERROMAGNETISM

The First Solid State Paramagnetic 1,2,3,5-Dithiadiazolyl Radical;

X-Ray Crystal Structure of [*p*-NCC₆F₄CN_{SSN}]⁻, 679

A Novel Tetranuclear Copper(II) Complex with Three Different Types of Azide, exhibiting Weak Antiferromagnetic Exchange, 1907

ANTIFUNGAL

Approaches to the Assembly of the Antifungal Agent FR-900848:

Studies on the Synthesis of C₂ Symmetric Tetracyclopropane

Derivatives and an X-Ray Crystallographic Study of

(1*R*,3*S*,4*S*,6*R*)-Bicyclopropyl-1,6-di-[(2-[(4*R*,5*R*)-di-(isopropoxy)carbonyl]-1,3-dioxolane)], 407

- Approaches to the Assembly of the Antifungal Agent FR-900848:
Determination of the Geometry of the Dicyclopropylethene Unit and an X-Ray Crystallographic Study of (1*R*,2*S*)-1,2-Bis[(1*S*,2*S*)-2-methylcyclopropyl]-1,2-ethanediyl 3,5-Dinitrobenzoate, 649
- Determination of the Full Structure and Absolute Stereochemistry of the Antifungal Agent FR-900848: an X-Ray Crystallographic Study of (1*R*,3*S*,4*R*,6*S*,7*S*,9*R*,10*S*,12*R*)-Quatercyclopropyl-1,12-dimethanediyl Di-4-bromobenzoate, 1143
- ANTIMONY**
Novel Rhodium–Antimony Bimetallic Complexes containing an Unusual Distibine *cis*-Eclipsed Conformation, 1325
Novel Ionic Media for Liquid Lasers, 2369
- ANTITUMOUR**
Synthesis of 2,4-Diaza-4-deoxypodophyllotoxin, a New Analogue of Podophyllotoxin possessing Antitumour Activity, 49
- ARABINOSE**
First Synthesis of the Phosphono Analogue of *N*-Acetyl- α -D-mannosamine 1-Phosphate, 1993
- ARAGONITE**
Habit Modification in Synthetic Crystals of Aragonite and Vaterite, 1031
- ARCHAEL ORGANISM**
Detection of Regioisomeric Macrocyclic Tetraethers in the Lipids of *Methanobacterium thermoautotrophicum* and other Archaeal Organisms, 405
- ARENE**
Synthesis and Molecular Structure of Tetraruthenium Clusters carrying Facial Arene Ligands, 537
Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene–Manganese Tricarbonyl Complexes, 853
Reduction of Intermolecular Association in the Sterically Encumbered (Dichloroiodo)arene ArICl₂ [Ar = 2,6-bis(3,5-dichloro-2,4,6-trimethylphenyl)benzene], 1115
Corrigendum: Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene–Manganese Tricarbonyl Complexes, 1309
Highly Twisted Substituted Arenes: X-Ray Structure and Dynamic ¹H NMR Spectra of 1,4-Dialkyl-2,3,5,6-tetrakis(alkylsulphonyl)-benzenes, 1357
- AROMATIC**
Direct Alkylation of Aromatic Compounds with Allylic Chloride using the Supported Reagents System ZnCl₂/SiO₂–K₂CO₃/Al₂O₃, 1895
- AROMATICITY**
5-Methyl-1-phenylpyrrolo[3,4-*d*]borepin: a Polarized Aromatic Molecule, 1249
- AROMATISATION**
Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 187
Corrigendum: Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 1195
- ARSENATO**
The First Diferric Model Compound for the Uteroferrin–Arsenato Complex, 1305
- ARSENIC**
First Structural Characterization of Silicon–Arsenic and Silicon–Phosphorus Multiple Bonds in Silylated Silylidene-arsanes and -phosphanes; X-Ray Structure of a Tellura-arsasilirane Derivative, 253
The Hydrothermal Microwave Synthesis of Scorodite: Iron(III) Arsenate(V) Dihydrate, FeAsO₄·2H₂O, 323
The Preparation and Crystal Structure of a Salt with the [(VO₂(O₂CMe)₄(NO₃)][–] Monoanion, 627
A New As³⁺-Silicate Molecular Sieve with MFI Structure, 869
- ARSENIDE**
Photoluminescence Studies of Chemical Adsorption of GaAs/Al_xGa_{1–x}As Multiquantum Well Semiconductor, 1439
- ARSINE**
Facile Insertion of Alkynes into Ir–P (Phosphine) and Ir–As (Arsine) Bonds: Second and Third Alkyne Addition to Mononuclear Iridium Complexes, 1495
- ARYL IODIDE**
Carbonylative Coupling of an Amino Acid-derived Organozinc Reagent with Functionalized Aryl Iodides: Synthesis of Kynurenine, 2207
- ARYL RADICAL**
Tandem Radical Translocation and Homolytic Aromatic Substitution: a Convenient and Efficient Route to Oxindoles, 977
- ARYLALKANE**
Arylalkane Oxidation by Dioxo[4,4'-di(*tert*-butyl)-2,2'-bipyridyl]-molybdenum(VI) Complexes, 655
- ARYLCOPPER**
The Reaction of Methyl (*E*)-4,5-Epoxy-pent-2-enoate with Arylcopper: the Unique Role of Boron Trifluoride in determining Regioselectivity, 2001
- ARYLETHENE**
Adiabatic Two-way Isomerization of an Arylethene: an Observation of Extremely High Energy Barrier for Excited State *Z*–*E* Isomerization, 1837
- ARYLIDENATION**
An Unprecedented DBU–MeOH Promoted One-pot γ -Arylidation of Cyclic β -Ketoesters by a Directed γ -Aldol Reaction and Dehydration Sequence, 33
- ARYLIODONIUM**
Reactions of Cyclotron-produced [¹⁸F]Fluoride with Diaryliodonium Salts—a Novel Single-step Route to No-carrier-added [¹⁸F]-Fluoroarenes, 2215
- ARYLOXIDE**
Aryloxide Ligand Dependent Reactivity of Tantalum Dihydride Compounds with Alkenes, 553
- ASCORBATE OXIDASE**
An *N*-Ligated Trinuclear Copper(I) Cation Structurally Reminiscent of the Active Site of Ascorbate Oxidase, 959
- ASCORBIC ACID**
Fast Formation of NO in Reactions of Alkyl Nitrites with Ascorbic Acid and Analogues, 169
- ASPARTIC ACID**
A Concise Enantioselective Synthesis of *N*-Morpholinospingosines from D-Aspartic Acid, 123
- ASPERGILLUS MELLEUS**
Investigation of the Stereochemistry of the Tri- and Tetra-ketide Hydroxyacyl Intermediates in the Biosynthesis of the Polyketide Aspyrone in *Aspergillus melleus* using Deuterium Labelling and Deuterium NMR Spectroscopy, 859
The Pentaketide Hydroxyacyl Intermediate in Aspyrone Biosynthesis in *Aspergillus melleus* is shown to be the (*S*)-Enantiomer using Deuterium-labelled Precursors and ²H NMR, 861
Investigation of the Stereochemistry of the Dehydration of the Diketide, (3*R*)-3-Hydroxybutyrate to Crotonate, in the First Chain Extension Cycle on the Aspyrone Polyketide Synthase in Intact Cells of *Aspergillus melleus*, 863
- ASPIDOSPERMIDINE**
Stereoselective Preparation of the *ABCE* Tetracycle of Aspidospermidine and Related Alkaloids, 1409
- ASPYRONE**
Investigation of the Stereochemistry of the Tri- and Tetra-ketide Hydroxyacyl Intermediates in the Biosynthesis of the Polyketide Aspyrone in *Aspergillus melleus* using Deuterium Labelling and Deuterium NMR Spectroscopy, 859
The Pentaketide Hydroxyacyl Intermediate in Aspyrone Biosynthesis in *Aspergillus melleus* is shown to be the (*S*)-Enantiomer using Deuterium-labelled Precursors and ²H NMR, 861
Investigation of the Stereochemistry of the Dehydration of the Diketide, (3*R*)-3-Hydroxybutyrate to Crotonate, in the First Chain Extension Cycle on the Aspyrone Polyketide Synthase in Intact Cells of *Aspergillus melleus*, 863
- ASSEMBLY**
Molecular Assembly Recognition Process. Carbon Number Selective Intercalation of Amines by a Layered Zirconium Phosphonate, 75
A Novel Layered Aluminium Phosphate [Co(en)₃Al₃P₄O₁₆·3H₂O] Assembled about a Chiral Metal Complex, 425
Layer-by-layer Architectures of Concanavalin A by means of Electrostatic and Biospecific Interactions, 2313
- ASSOCIATION**
The Role of Papain in the Association Process of a 1-Pyrenoyl Pendant attached to its Active Site, 1729
- ASYMMETRIC**
Asymmetric Intramolecular Selenoetherification and Selenolactonization using an Optically Active Diaryl Diselenide derived from D-Mannitol, 1641
- ASYMMETRIC ADDITION**
Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene–Manganese Tricarbonyl Complexes, 853
- ASYMMETRIC CATALYSIS**
Homogeneous Catalysis: Use of Chiral Titanocene Complexes for Asymmetric Catalytic Diels–Alder Reactions, 1181
- ASYMMETRIC HYDROGENATION**
The Remarkable Effect of *E/Z* Isomers on the Catalytic Asymmetric Hydrogenation of Oximes, 1767
- ASYMMETRIC INDUCTION**
Remote Asymmetric Induction in Reactions between 4- and 5-Benzyloxy-pent-2-enyl(tributyl)stannanes and Chiral Imines prepared from Butyl Glyoxylate, 657
- ASYMMETRIC REACTION**
Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409
- ASYMMETRIC SYNTHESIS**
Enantioselective Bacterial Biotransformation Routes to *cis*-Diol Metabolites of Monosubstituted Benzenes, Naphthalene and Benzocycloalkenes of Either Absolute Configuration, 117
Sulfoxides of High Enantiopurity from Bacterial Dioxygenase-catalysed Oxidation, 119

- Asymmetric Synthesis of the Enantiomers of the Diarylcarbinol (1*R*)- and (1*S*)-1-(1-Hydroxyphenylmethyl)-2-hydroxybenzene, 251
- Asymmetric Synthesis of Epoxides using Chiral Sulfinimides, 893
- Catalytic Asymmetric Synthesis of α -Methylene- β -hydroxy-ketones, 1755
- New Chiral β -Phosphinocarboxylic Acids and their Application in Palladium-catalysed Asymmetric Allylic Alkylations, 1845
- An Asymmetric Synthesis of an Axially Chiral Biaryl *via* an (Arene)chromium Complex: Formal Synthesis of (-)-Steganone, 1943
- ATROPISOMER**
Unusual Conformational Stability of a Sterically Crowded Atropisomer of Methyl[α^4 -5,10,15,20-tetrakis(2'-phenylphenyl)-porphyrinato]aluminium: a Possibility of CH- π Bonding Interactions in Organometallic Porphyrin Systems, 1411
- AZA**
Helicity Interchange in Pendant Arm Tetraaza Macrocyclic Sodium(I) Complexes, 97
- AZA WITTIG**
Aza-[2,3]-Wittig Sigmatropic Rearrangement of Crotyl Amines, 1835
- AZABUTADIENE**
Intermolecular Polar [4 π + 2 π] Cycloadditions of Cationic 2-Azabutadienes from Thiomethylamines: A New and Efficient Method for the Regio- and Diastereo-selective Synthesis of 1,2,3,4-Tetrahydroquinolines, 2137
- AZA-COPE**
Novel Synthetic approach to Carbapenems Utilizing Aza-Cope Mannich Cyclization, 2527
- AZADIENE**
Stereoselective Cyclopropanation of 1-Azadienes with Fischer Carbene Complexes, 665
- 4,5-Dicyanopyridazine: a 1,2-Diazine Superheterodiene for [4 + 2] Cycloaddition Reactions, 2201
- AZAIMIDE**
Aziridination of Alkenes using 3-Acetoxyaminoquinazolin-4-(3*H*)-ones in the Presence of Tertiary Amines: Evidence for an Azaimide (N-Nitrene) Intermediate, 819
- AZANORBORNANE**
Intramolecular Diels-Alder Reaction of New Building Blocks, *N*-Substituted 3,5-Dihydro-1*H*-thieno[3,4-*c*]-pyrrole *S,S*-Dioxides; a General Route to the Tricyclic Azanorborene Framework, 807
- AZAPHOSPHIRENE**
Easy Access to *C,C'*-Bifunctionalized 1*H*-Phosphirene-Tungsten Complexes: Evidence for Amphiphilic Reaction Behaviour of a Phosphanedyl-Tungsten Complex, 2507
- AZEPINE**
Formation of Bicyclic Azepines by Intramolecular Trapping of Didehydroazepines, 1255
- Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899
- AZEPINEDIONE**
Syntheses of Sugar-derived Heterotricyclic Lactams, 211
- AZIDATION**
Electrophilic Azidation of 2-Deoxy-aldono-1,5-lactones: an Alternative Route to 2-Azido-2-deoxy-aldopyranoses, 221
- AZIDE**
A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylidene Oxide, 81
- Corrigendum*: A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylidene Oxide, 801
- A Novel Bis(*N,N'*-dimethyl-1,4,7-triazacyclononane)calix[4]arene Ligand that forms a Ferromagnetic Dinuclear Nickel(II) Complex with Three End-on Azide Bridging Ligands, 929
- Ytterbium Triisopropoxide Catalysed Ring Opening of Epoxides with Trimethylsilyl Azide, 1021
- The Structure of a Stable New Organotellurium Azide: Bis-Azidodiphenyltellurium(IV) Oxide, 1609
- Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899
- A Novel Tetranuclear Copper(II) Complex with Three Different Types of Azide, exhibiting Weak Antiferromagnetic Exchange, 1907
- Diazo Transfer Reaction of 2-(Trimethylsilyl)-1,3-dithiane with Tosyl Azide. Reactivity of Transient 2-Diazo-1,3-dithiane, 1999
- AZIDO**
New Trialkylsilyl Enol Ether Chemistry: Direct 1,2-Bis-azidation of Triisopropylsilyl Enol Ethers: an Azido-radical Addition Process Promoted by TEMPO, 263
- Versatility of the Azido Bridging Ligand in the First Two Examples of Ferro-Antiferromagnetic Alternating Nickel(II) Chains, 2375
- AZIDO ESTER**
Epimerisation-free Peptide Formation from Carboxylic Acid Anhydrides and Azido Derivatives, 91
- AZINE DIPHOSPHINE**
Novel Iridium Complexes of an Azine Diphosphine: Very Reactive Iridium(I) Species formed by a Unique Isomerisation of an Iridium(III) Hydride. A New Method of creating Coordinative Unsaturation, 865
- AZIRIDINATION**
Aziridination of Alkenes using 3-Acetoxyaminoquinazolin-4-(3*H*)-ones in the Presence of Tertiary Amines: Evidence for an Azaimide (N-Nitrene) Intermediate, 819
- AZIRIDINE**
N-(3,4-Dihydro-4-oxoquinazolin-3-yl)pyridinium Imides: Aziridinating Agents for Alkenes: Measurement of Rotational Barriers around each N-N Bond in an N-N-N System, 727
- Aziridino[2',3':1,2][60]fullerene, 885
- Aziridino[2',3':1,6][60]fullerene: Isolation of the First Closed [5,6]-bridged Fullerene Adduct, 887
- Catalytic Formation of Aziridines from Imines and Diazoacetate, 1401
- AZITHROMYCIN**
Conformational Analysis of the Erythromycin Analogues Azithromycin and Clarithromycin in Aqueous Solution and bound to Bacterial Ribosomes, 1653
- AZO**
Functionalized Azo Dyes by Direct Ullmann Coupling, 245
- AZOBENZENE**
Preparation of Thin Films with Well-defined Molecular Orientation of Chromophores by Polymerization of Liquid Crystalline Monomers in an Electric Field, 2195
- BACTERIAL RIBOSOME**
Conformational Analysis of the Erythromycin Analogues Azithromycin and Clarithromycin in Aqueous Solution and bound to Bacterial Ribosomes, 1653
- BAEYER-VILLIGER**
Metal-catalysed Enantiospecific Aerobic Oxidation of Cyclobutanones, 1247
- BAEYER-VILLIGERASE**
Mapping of the Functional Active Site of Baeyer-Villigerases by Substrate Engineering, 729
- BAKKENOLIDE-A**
Cyclopentaannulation of Allyl Alcohols *via* a Radical Cyclisation Reaction. Total Synthesis of 4-Epibakkenolide-A, 469
- BAND GAP**
Poly[*trans*-bis(3,4-ethylenedioxythiophene)vinylene]: A Low Band-gap Polymer with Rapid Redox Switching Capabilities between Conducting Transmissive and Insulating Absorptive States, 703
- BARBITURATE**
Recognition of Barbiturates in Molecularly Imprinted Copolymers using Multiple Hydrogen Bonding, 2303
- BARIUM**
Synthesis and Structure of Ba₂InO₃F: Oxide/Fluoride Ordering in a New K₂NiF₄ Superstructure, 353
- BASICITY**
Stable Carbenes as Strong Bases, 1267
- Steric Effects on the Solvation of Protonated Di-*tert*-butyl Ketone and Phenyl *tert*-Butyl Ketone, 2053
- BATZELLADINE A**
An Enantiospecific Synthesis of the Tricyclic Guanidine Segment of the Anti-HIV Marine Alkaloid Batzelladine A, 1369
- BENZENE**
Synthesis of Main-group Metal Clusters in Organic Solvents, 59
- Synthesis and Molecular Structure of the Novel Triosmium Bis-(benzene) Cluster [Os₃(CO)₆(η^6 -C₆H₆)₂](μ_3 : η^2 : η^2 : η^2 -C₆H₆), 189
- Cycloaddition of Zirconacyclopentadienes to Alkynes using Copper Salts: Formation of Benzene Derivatives, 361
- Synthesis and Crystal Structure of a New Large Cryptand encapsulating a Benzene Molecule, 735
- Direct Allylation of Aromatic Compounds with Allylic Chloride using the Supported Reagents System ZnCl₂/SiO₂-K₂CO₃/Al₂O₃, 1895
- A Neutron Diffraction Study of the Acid Form of Zeolite Y and its Complex with Benzene, 2253
- BENZENIUM ION**
The Face-centred π Complex Isomer of the Benzenium Ion is Probably the Most Stable Form in the Gas Phase: Experimental Evidence, 1027
- Is the Most Stable Gas-phase Isomer of the Benzenium Cation a Face-protonated π -Complex?, 2347
- BENZILATE**
[Vanadium(salen)benzilate]—A Novel Non-oxo Vanadium(IV) Complex, 377
- BENZOATE**
(4-Dimethylaminopyridine)₅(benzoic acid)₃(H₂O)₁₀, a Two-dimensional Clathrate Hydrate, 1705
- BENZOFURAN**
A New Electrosynthesis of 2,2-Dimethylchromenes from 2-(1-Bromo-1-methylethyl)benzofurans, 615
- BENZOPROSTACYCLIN**
An Efficient Approach to Optically Active Benzoprostacyclins by a Two-component Coupling Process, 811
- BENZOPYRENE**
Enantioselective Synthesis of the (+)-*anti*-7,8-Dihydrodiol-9,10-epoxide of the Potent Carcinogen Benzo[*a*]pyrene, 1699

BENZOQUINONE

Control of Regioselectivity in the Diels–Alder Reactions of Alkyl-substituted 1,4-Benzoquinones by β -Cyclodextrin and its Derivatives, 971

Rationale for Predominance of 1,3-Dipolar Cycloreversion in Thermolysis of 3,4-Dihydropyrazole from Ethano-bridged Diphenyldiazomethane and 2,5-Dimethyl-1,4-benzoquinone. An X-Ray Study, 1937

BENZOTHAZINONE

3,1-Benzoxazin-4-ones, 3,1-Benzothiazin-4-ones and *N*-Arylcyanothioformamides, 1419

BENZOTHIOPHENE

Thiophene *S*-Oxides: Convenient Preparation, First Complete Structural Characterization and Unexpected Dimerization of One of Them, 2,5-Diphenylthiophene-1-oxide, 473

(Diphenylphosphino)-biheteroaryls: the First Example of a New Class of Chiral Atropisomeric Chelating Diphosphine Ligands for Transition Metal Catalysed Stereoselective Reactions, 685

BENZOTRIAZOLATE

Benzotriazolate-mediated Assembly of the Discrete Asymmetric Pentanuclear Nickel Complex $[\text{Ni}_5(\text{OH})(\text{bta})_5(\text{acac})_4(\text{H}_2\text{O})_4]$ (Hbta = benzotriazole, Hacac = pentane-2,4-dione), 1347

BENZOXAZINONE

3,1-Benzoxazin-4-ones, 3,1-Benzothiazin-4-ones and *N*-Arylcyanothioformamides, 1419

BENZOYL AMINO ACID

Reaction of *N*-Benzoyl Amino Acids with Oxalyl Chloride: a Facile Route to 4-Substituted 2-Phenylloxazole-5-Carboxylates, 2335

BENZOYLACETONE

Decisive Role of a Phenyl Group at the α -Position of Benzoylacetone in the Solvent Extraction of Al^{3+} and In^{3+} , 2271

BENZYL RADICAL

The Formation of Gas Phase Benzyl Radicals during the Reaction of Toluene and Nitrous Oxide over Li–MgO and Sr–La₂O₃ Coupling Catalysts, 1203

BENZYLIDINE

Synthesis of Functionalized Pyrrolidines from *N*-(Benzylidene)- and *N*-(Alkylidene)-homoallylamines, 2029

BENZYNE

(Phenyl)[*o*-(Trimethylsilyl)phenyl]iodonium Triflate. A New and Efficient Precursor of Benzyne, 983

Structures and Stabilities of Gas-phase C₆H₄X[−] (X = F, Cl and Br) Anions: Benzyne–Halide Ion Complexes?, 2227

BET

Preparation and Characterisation of Mesoporous, High Surface Area Zirconium(IV) Oxides, 2083

BIARYL

An Asymmetric Synthesis of an Axially Chiral Biaryl *via* an (Arene)chromium Complex: Formal Synthesis of (−)-Steganone, 1943

BIFERROCENIUM

Pronounced Effects of Ring Tilting on the Intramolecular Electron-transfer Rate in Mixed-valence Polyalkyl-substituted Biferrocenium Cations, 2453

BILAR VESICULAR MEMBRANE

Efficient Multi-point Interaction between Peptide Catalysts and Amino Acid Esters in a Bilayer Vesicular Membrane for Highly Stereoselective Hydrolysis Reactions, 2301

BILVERDIN

Solid-state Self-association of the Two-electron Oxidation Product of a Biliverdin Analogue, 643

BIMETALLIC CATALYST

Catalytic Synthesis of Unsaturated Nitriles from NO–Alkane or NO–Alkene on Pt–Sn/SiO₂, 329

BIMETALLIC COOPERATION

Synergistic Catalysis by Two Non-lanthanide Metal Ions for Hydrolysis of Diribonucleotides, 1221

BINAP

Catalytic Asymmetrization of *meso*-3,7-Bis-siloxycycloheptene by Chiral Rhodium(I)-binap [2,2′-bis(diphenylphosphino)-1,1′-binaphthyl] Catalyst: the Enantiocontrolled Asymmetric Synthesis of (−)-(*S*)-Physoperuvine, 2205

Structure and Photophysical Properties of $[\text{Pt}^0(\text{binap})_2]$ [binap = 2,2′-bis(diphenylphosphino)-1,1′-binaphthyl], 2273

BINAPHTHOL

Periselective and Enantioselective Carbonyl–Ene Reaction of Isoprene with Fluoroalkyl Glyoxylate Catalysed by Modified Binaphthol–Titanium Complex: Asymmetric Catalytic Synthesis of Enantiomerically Pure Ipsdienol, 2391

BIO-ELECTRONIC INTERFACE

A Bio-electronic Interface using Functionalised Conducting Polypyrroles, 697

BIOGENESIS

Isolation of a Putative Biogenetic Taxane Precursor from *Taxus canadensis* Needles, 529

BIOLOGICAL MARKER

Structure and Origin of Two Triterpene-derived Aromatic Hydrocarbons in Messel Shale, 1275

BIOLUMINESCENCE

Chemi- and Bio-luminescent Properties of Coelenterazine Analogues Possessing an Adamantyl Group, 1335

BIOSENSOR

An Organic-phase Enzyme Electrode based on an Apparent Direct Electron Transfer between a Graphite Electrode and Immobilized Horseradish Peroxidase, 483

BIOSYNTHESIS

The Biosynthesis of Tropic Acid: The (*R*)-D-Phenylactyl moiety is processed by the Mutase involved in Hyoscyamine Biosynthesis in *Datura stramonium*, 127

The Biosynthesis of Tropic Acid: The Stereochemical Course of the Mutase involved in Hyoscyamine Biosynthesis in *Datura stramonium*, 129

Biosynthesis of Anatoxin-a(s). (2*S*,4*S*)-4-Hydroxyarginine as an Intermediate, 205

A Diarylheptanoid Intermediate in the Biosynthesis of Phenylphenalenones in *Anigozanthos preissii*, 525

Biosynthesis of Heteroscyphic Acid A in Cell Cultures of *Heteroscyphus planus*: Nonequivalent Labelling of C-5 Units in Diterpene Biosynthesis, 681

Investigation of the Stereochemistry of the Tri- and Tetra-ketide Hydroxyacyl Intermediates in the Biosynthesis of the Polyketide Aspyrone in *Aspergillus melleus* using Deuterium Labelling and Deuterium NMR Spectroscopy, 859

The Pentaketide Hydroxyacyl Intermediate in Aspyrone Biosynthesis in *Aspergillus melleus* is shown to be the (*S*)-Enantiomer using Deuterium-labelled Precursors and ²H NMR, 861

Investigation of the Stereochemistry of the Dehydration of the Diketide, (3*R*)-3-Hydroxybutyrate to Crotonate, in the First Chain Extension Cycle on the Aspyrone Polyketide Synthase in Intact Cells of *Aspergillus melleus*, 863

4-Hydroxy-L-threonine, a Committed Precursor of Pyridoxol (Vitamin B₆), 1339

Biosynthetic Studies of the DSP Toxin DTX-4 and an Okadaic Acid Diol Ester, 1623

Biosynthetic Studies of Amphidinolide J: Explanation of the Generation of the Unusual Odd-numbered Macrocyclic Lactone, 1639

Stereochemical Studies on the Proposed Spiro Intermediate for the Biosynthesis of the Natural Porphyrins: Determination by a Novel X-Ray Method of the Absolute Configuration of the Spirolactam which Inhibits Cosynthetase, 1789

Biosynthesis of Chlorophyll a from ¹³C-Labelled Mevalonates and Glycine in Liverwort. Nonequivalent Labelling of Phytol Side Chain, 2529

BIPHENYL

Charge Polarization in Photoexcited Alkoxy-substituted Biphenyls: Formation of Biphenyl Quinone Methides, 1217

BIPYRIDINE

A General Synthetic Strategy for Functionalized Oligo(bipyridines): New Building Blocks for Supramolecular Chemistry and their First Application in Macromolecules, 69

The Palladium(II) Coordination Chemistry of Ferrocenylphosphinobipyridines: a Novel *trans*-Chelating Ligand System, 459

One-pot Synthesis and X-Ray Studies on Cyclic Oligobipyridines and one of their Dinuclear Ruthenium Complexes, 1445

Triple Interpenetration in $[\text{Ag}(4,4′\text{-bipyridine})][\text{NO}_3]$, a Cationic Polymer with a Three-dimensional Motif Generated by Self-assembly of ‘T-shaped’ Building Blocks, 2413

BIPYRIDINIUM

Cyclophanes with Self-recognising Components, 2541

BIPYRIDYL

Remarkable Chloride over Dihydrogen Phosphate Anion Selectivity Exhibited by Novel Macrocyclic Bis[Ruthenium(II) Bipyridyl] and Ruthenium(II) Bipyridyl–Metalloocene Receptors, 2245

BIS BENZENE CHROMIUM

Hosting Paramagnetic $[\text{Cr}(\text{C}_6\text{H}_6)_2]^+$ in an Organic Anion Framework *via* CH \cdots O Hydrogen Bonds, 1023

BISANTHRYLMETHYLENETETRAHYDROFURAN-2,5-DIONE

Intramolecular [4 + 4] Photocycloaddition Reactions of the Photochromic Compounds, 3,4-Bis(9-anthrylmethylene)-tetrahydrofuran-2,5-dione and its 5-Dicyanomethylene Derivative, 479

BISAZAFULLEROID

Bisazafulleroids, 1159

BISCHLER-NAPIERALSKI

Trifluoromethanesulfonic Anhydride-4-(*N,N*-Dimethylamino)-pyridine as a Reagent Combination for Effecting Bischler–Napieralski Cyclisation under Mild Conditions: Application to Total Syntheses of the *Amaryllidaceae* Alkaloids *N*-Methylcrinasiadine, Anhydrolycorinone, Hippadine and Oxoasoanine, 2551

BISDIALINE

Syn and *Anti* Cycloaddition of Singlet Oxygen to Bisdialine, 1887

BISDITHIOLE

Preparation and Properties of Bis[5-(6-methyl-1,4-dithiafulven-6-yl)-2-thienyl]methanes affording Near-infrared Absorbing Cations by Oxidation, 557

BISINTERCALAND

Binding of Nucleotides in Water by Phenanthridinium Bis-(intercaland) Receptor Molecules, 1073

BISMUTH

Synthesis of Main-group Metal Clusters in Organic Solvents, 59
Synthesis and Structure of a Complex of Bismuth(III) with a Nitrogen Donor Macrocycle, 2365

BISMUTHANE

Tris(2-methoxyphenyl)bismuthane as a Dehydrating Agent with High Template Ability: an Efficient Single-step Synthesis of Macrocyclic Diesters from Diacid Anhydrides and Glycols, 1407

BISPHOSPHITE

Direct NMR Observation of Atropisomerism of a Bisphosphite Dibenzo[d,f][1,3,2]dioxaphosphepin Moiety, 1805

BITHIENYL

Oxidative Intramolecular Cyclization of 2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls affording Novel Bis(1,3-dithiole) Electron Donors, 1761

BOND ENERGY

Thermodynamics of Benzylic C-H Activation in 18- and 19-Electron Iron Sandwich Complexes: Determination of pK_a values and Bond Dissociation Energies, 7

BOND VALENCE MODEL

Lengthening of the N-H Bond in N-H...N Hydrogen Bonds. Preliminary Structural Data and Implications of the Bond Valence Concept, 1331

BONDING INTERACTION

Unusual Conformational Stability of a Sterically Crowded Atropisomer of Methyl[α^4 -5,10,15,20-tetrakis(2'-phenylphenyl)-porphyrinato]aluminium: a Possibility of CH- π Bonding Interactions in Organometallic Porphyrin Systems, 1411

BORANE

Novel Bicyclic Organoboranes *via* 1,1-Organoboration, 399
Aldol Reactions of Ethyl *N*-Benzyl-*N*-methylglycinate and of its Borane Adduct: Selective Access to *Syn* or *Anti* α -Amino- β -hydroxyesters, 487
Re-identification of the Major Volatile Carbaboranes from the Gas-phase Reactions of Tetraborane(10) and Alkynes at 50 °C, 667
nido-[$\{(C_5Me_5)Ir\}B_3H_7\{(PPh_3)_2(CO)Os\}$], *closo*-[$\{(C_5Me_5)Ir\}B_4H_6\{(PPh_3)_2(CO)Os\}$] and *pileo*-[$\{(PPh_3)COIr\}B_5H_5\{(PPh_3)_2(CO)Os\}$]: a Unique Homologous Series of Iridaosmaborane Cluster Types, 1285
Oxygen in an Electron-deficient Borane Skeleton: the Oxa-*nido*-dodecaborate Anion $[OB_{11}H_{12}]^-$, 1663
Macropolyhedral Boron-containing Cluster Chemistry. The Eighteen-vertex Monocarborane $[(Me_3CNH_2)CB_{17}H_{18}(CN)]$, 2407

BORANE CLUSTER

Condensation Route from 1,1,1-Tris(diethylboryl)propane to Pentaethyl-1,5-dicarba-*closo*-pentaborane(5) *via* *arachno*-CB₄(10) and *nido*-C₂B₄(8) Carbaboranes, 1691

BORATE

Palladium-catalysed Tandem Cyclisation-Cross-coupling Reaction with Triethyl-(1-methylindol-2-yl)borate, 409
The First Example of Polymerization of Isobutylene induced by a Metallocene-like Initiator, $[(\eta^5-C_5Me_5)TiMe_2(\mu-Me)B(C_6F_5)_3]$, 1065
Crystal Structures of Silver(I) and Thallium(I) Complexes of Tris[3-(2-pyridyl)-pyrazol-1-yl]borate; Encapsulation of Either a Single Thallium(I) Ion or a Trinuclear Silver(I) Cluster by a Hexadentate Podand, 1175

BORATOCYCLOPENTADIENYL

Anionic and Zwitterionic Metallocene Complexes derived from Novel Boratocyclopentadienyl Ligands, 2081

BORAZETIDINIUM SALT

Synthesis and X-Ray Crystal Structure of (1*S*,3*R*,4*S*,1'*S*)-4-Methyl-3-triphenylphosphonium-1-[1'-methyl(methylphenyl)]-2-hydrido-2-borazetidinium Bromide—the First Example of a Four-membered $\overline{C-B-N-C}$ Heterocycle, 287

BOREPINE

5-Methyl-1-phenylpyrrolo[3,4-*d*]borepin: a Polarized Aromatic Molecule, 1249

BORON

Generation and Characterisation of Dimesitylphenylborane Dianions, 233
Amorphous Iron-Boron Powders prepared by Chemical Reduction of Mixed-metal Cation Solutions: Dependence of Composition upon Reaction Temperature, 247
Tricarbollides—Compounds of the Eleven-vertex Series of Tricarbaboranes, 795
Preparation, Spectra and X-Ray Structure of an Archetypal Coordination Compound $[BCl_3(NH_3)]$ and its Thermolysis, 855

The Methylzinc Hydroborate Derivative $[(MeZn)_2B_3H_7]_2$: Synthesis, Crystal Structure and Vibrational Spectra of an Unprecedented Cluster Compound, 1363

Simultaneous Binding of Boron and Ammonium Cation by a Pseudocryptand: Synthesis, X-Ray Analysis and Solution Studies by NMR Spectroscopy, 1505

Novel *ansa*-Ferrocenes with *o*-Phenylene-type Bridges by B-N Adduct Formation, 1765

An Unexpected Reaction Between $B(C_6F_5)_3$ and $[Fe(\eta^5-C_5H_5)(CO)_2Me]$ Gives $\{[Fe-\sigma-C_6F_4(2-C(O)Me)(\eta^5-C_5H_5)(CO)]\}$, 1853

Boron-centred Diradical Dianion: a New Triplet State Molecule, 1957

BORON TRIFLUORIDE

Geometric and Electric Properties of the Donor-Acceptor Complex H_3N-BF_3 , 113

The Reaction of Methyl (*E*)-4,5-Epoxy-pent-2-enoate with Arylcopper: the Unique Role of Boron Trifluoride in determining Regioselectivity, 2001

BORONATE

Switching of Two Amine Ligands *via* an S_N2 -type Mechanism in a Coordinated Form of 2,6-Bis(*N,N*-dimethylaminomethyl)-phenylboronates, 2499

A Novel and Efficient Route to (*E*)-Alk-1-enyl Boronic Acid Derivatives from (*E*)-1-(Trimethylsilyl)alk-1-enes and a Formal Suzuki-Miyaura Cross-coupling Reaction starting with Vinylsilanes, 2523

BORONIC ACID

Sugar-controlled Association and Photoinduced Electron Transfer in Boronic-acid-appended Porphyrins, 961

A Diboronic Acid 'Glucose Cleft' and a Biscrown Ether 'Metal Sandwich' are Allosterically Coupled, 1483

An Alkyne Group with a Pair of Hydrogen Bonds: the Crystal Structure of 2,2'-Ethylenedibenzenboronic Acid at 122 K, 1499

BOROSILICATE

Novel Large-pore Vanadium Alumino- and Boro-silicates With BEA Structure, 207

BOTRYOCOCCENE

Identification of 1,6,17,21-Octahydrobotryococcene in a Sediment, 335

BOTRYOCOCCUS BRAUNII

Identification of 1,6,17,21-Octahydrobotryococcene in a Sediment, 335

BROMIDE

Novel Ionic Media for Liquid Lasers, 2369

BROMINE

A Li_2Br_2 Ring Trapped by *tert*-Butylaminotin(II)bromide and *tert*-Butylamine as found by X-Ray Crystallography, 213

BROMOPENTADIENAL

5-Bromopentadienal: a Versatile Intermediate for the Synthesis of Functionalized Polyenic Compounds, 563

BRONZE

Real Space Observation of Peroxide-like Dimers on a Sodium Tungsten Bronze Surface by Scanning Tunnelling Microscopy, 2419

BUTADIENE

Novel Palladium-catalysed Cyclodimerization of Butadiene in the Presence of Carbon Dioxide and Water, 931

Chiral 2-Alkoxy-1,3-butadienes: Synthesis and Face-Selectivity in Diels-Alder Reactions, 1785

Unexpected and Easy Annulation of Fischer-type Phenylethenyl Carbene Complexes, 1973

BUTADIENEDIYL

Synthesis and Structure of *s-cis*- and *s-trans*- μ -Butadiene-2,3-diylplatinum Complexes by the Reaction of μ -Ethynediylplatinum Complexes with Tetracyanoethylene, 2095

BUTADIENYL

The Formation and Structural Characterisation of the *transoid*- $\eta^4(5e)$ -Butadienyl Ligand; Evidence for a 'Bent' Rhenium-Carbon Bond, 593

Formation of *cisoid*- $\eta^4(5e)$ -Butadienylrhenium Complexes by Coupling of Alkene and Alkyne Ligands, 767

BUTADIYNE

Formation of the First Heterobimetallic Phosphido-bridged σ - π -Acetylide Complex $[(C_5H_5)_2Ti(\mu-\sigma,\eta^2-C\equiv CPh)(\mu-PPh_2)Ni(PPh_3)]$ by Cleavage of the Central C-C Single Bond in $PhC\equiv C-C\equiv CSiMe_3$ and of the P-C Bond in Ph_3P , and Coupling of the Fragments to $PhC\equiv CSiMe_3$, 1753

BUTANE

n-Butane Oxidation to Maleic Anhydride and Furan with no Carbon Oxide Formation using a Catalyst derived from $VO(H_2PO_4)_2$, 243
Synthesis of a Highly Active Superacid of Platinum-supported Zirconia for Reaction of Butane, 789

BUTANOL

Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409

BUTENE

Origin of the Positive Effect of Coke Deposits on the Skeletal Isomerization of *n*-Butenes over a H-FER Zeolite, 1685

BUTENOLIDE

Formation of Novel Photoadducts from Irradiation of 5(S)-5-O-*tert*-Butyldimethylsilyloxymethylfuran-2(5*H*)-one, 825

BUTYL

Steric Effects on the Solvation of Protonated Di-*tert*-butyl Ketone and Phenyl *tert*-Butyl Ketone, 2053

BUTYLAMINE

Molecular Recognition of Butylamines by a Binaphthyl-derived Chromogenic Calix[4]crown, 1727

BUTYLATION

Reagent-controlled Stereoselection in Radical Addition to α -Methylenebutyrolactones, 1043

BUTYNE-1,4-DIOL

Weak Polar Host-Guest Interactions Stabilizing a Molecular Cluster in a Cyclodextrin Cavity: C-H \cdots O and C-H \cdots π Contacts in β -Cyclodextrin-But-2-yne-1,4-diol Heptahydrate, 2087

CADMIUM

Corrigendum: Synthesis and Structure of Rb[Cd{Ag(CN)₂}₃] Containing Three Independent, Interpenetrating α -Polonium-related Nets, 605

Identification of Zinc and Cadmium Complexes of the Mycotoxin Sporidesmin A by Electrospray Mass Spectrometry, 889

Evidence for the Chemical Nature and Ordering of Cobaltocene Intercalated in CdPS₃ using Single Crystal Solid State ²H NMR Spectroscopy, 1657

Unusual Six- and Eight-coordinated Cadmium(II) Malonate Complex: Relevance to ¹¹³Cd NMR Probe of Metal Binding Sites on Metalloproteins, 2333

CAESIUM

Base and Acid Catalysis by the Alkali-containing MCM-41 Mesoporous Molecular Sieve, 1005

CAESIUM CARBONATE

Novel Synthesis of Oxalate from Carbon Dioxide and Carbon Monoxide in the Presence of Caesium Carbonate, 633

CALCITRIOL

Concise Enantiocontrolled Synthesis of the A-Ring Precursor of Calcitriol from the Chiral Cyclohexadienone Synthone, 1951

CALCIUM

The Anomalous High Reactivity of Ca⁺ with S₈ in the Gas Phase: [CaS₃]⁺ and [CaS₁₁]⁺, 975

Habit Modification in Synthetic Crystals of Aragonite and Vaterite, 1031

An Active Site Model for Calcium(II)-containing Quinoproteins, 2077

CALICHEAMICIN

Synthetic Studies Related to the Esperamicin/Calicheamicin Aglycone: Efficient Construction of a Homochiral Oxabicyclo [7:3:1] Analogue from D-Xylose, 799

CALIXARENE

Calix[6]resorcinarenes: The First Examples of [1₆]Metacyclophanes derived from Resorcinols, 309

Anion- and Solvent-dependent Photochemical Decomplexation of Sodium Salt Complexes of a Calix[4]arene Tetraester, 363

Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate, 417

Synthesis and Structural Studies on *p*-*tert*-Butyl-1,3-dihydroxy-2,4-disulfanylcalix[4]arene and its Mercury Complex, 609

Selectivity in Redox-switched Calix[4]arene Cationophores:

Electrochemical Detection of a Conformational Change on Cation Binding, 675

A New Macrocavitand from the Head to Tail Four-point Capping of *p*-*tert*-Butylcalix[8]arene with a Calix[4]arene, 879

A Novel Bis(*N,N'*-dimethyl-1,4,7-triazacyclononane)calix[4]arene Ligand that forms a Ferromagnetic Dinuclear Nickel(II) Complex with Three End-on Azide Bridging Ligands, 929

Novel Water-soluble Cyclodextrin-Calix[4]arene Host Molecules with Strongly Enhanced Binding Properties, 1151

NMR Diffusion Coefficients of *p*-*tert*-Butylcalix[*n*]arene Systems, 1183

Corrigendum: Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate, 1309

Synthesis and X-Ray Crystal Structure of a New Redox-active Calix[5]arene Containing a Totally Included Ethanol Molecule, 1851

Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899

Synthesis and Functionalization of Calix[4]arene-based Carceplexes, 1941

The Synthesis and Properties of a Calixarene-based 'Sugar Bowl', 1997

Calix[*n*]arene Phosphine Oxides. A New Series of Cation Receptors for Extraction of Europium, Thorium, Plutonium and Americium in Nuclear Waste Treatment, 2151

Novel Metal Imido Calixarene Complexes, 2371

CALIXARYL ESTER

Metal-induced Conformational Changes in Calix[*n*]arenes can Change the Exchange Interaction between N-O \cdot Radicals, 2121

CALIXCROWN

Molecular Recognition of Butylamines by a Binaphthyl-derived Chromogenic Calix[4]crown, 1727

CALIXCROWN TELOMER

Synthesis and Properties of Calixcrown Telomers, 1737

CALIXRESORCINARENE

Corrigendum: Selective Adsorption in Gold-Thiol Monolayers of Calix-4-resorcinarenes, 291

CANNABINOID

Synthesis, Spectral Studies and Tritiation of the Cannabinoid Antagonist SR141716A, 1549

CAPILLARY

Asymmetric Capillary Membrane of a Carbon Molecular Sieve, 1781

CAPILLARY ELECTROPHORESIS

Rapid Estimation of Octanol-Water Partition Coefficients using Deoxycholate Micelles in Capillary Electrophoresis, 2241

CARBABORANE

Re-identification of the Major Volatile Carboranes from the Gas-phase Reactions of Tetraborane(10) and Alkynes at 50 °C, 667

Tricarbollides—Compounds of the Eleven-vertex Series of Tricarbaboranes, 795

The *cis*-Insertion of Diphenylacetylene into an *exo*-Polyhedral Boron-Hydrogen Bond of a Molybdenacarborane Cage, 985

Condensation Route from 1,1,1-Tris(diethylboryl)propane to Pentaethyl-1,5-dicarba-*closo*-pentaborane(5) via *arachno*-CB₄(10) and *nido*-C₂B₄(8) Carboranes, 1691

Macropolyhedral Boron-containing Cluster Chemistry. The Eighteen-vertex Monocarborane [(Me₃CNH₂)CB₁₇H₁₈(CN)], 2407

CARBAMATE

Flash Chiral Chromatography using Carbohydrate Carbamate-coated Silica, 301

New Photolabile Amino Protecting Groups: Photogeneration of Amines from [(3',5'-Dimethoxybenzoinyl)oxy]carbonyl Carbamates, 923

CARBANION

Isolation and Structural Determination of {(1,1,2,2-Tetracyano-1,2-ethanediyl)bis[imino(cyanomethylene)]}bis(cyanamide) ion(2-), [C₁₂N₁₂]²⁻, a New Cyanocarbon, 2343

Asymmetric 9-(1'-Naphthyl)fluorenes: Enantioselective Synthesis, Determination of Absolute Configuration and Retention of Axial Chirality in the Fluorenyl Carbanions, 2509

CARBAPENAM

Novel Synthetic approach to Carbapenems Utilizing Aza-Cope Mannich Cyclization, 2527

CARBAZOLE

Tetrabutylammonium Salts of Carbazole and Dibenzazepine: Synthesis, Crystal Structures and Use in Anionic Polymerization, 275

CARBENE

Synthesis of 1,2-Cyclopropanated Sugars from Glycols, 217

Corrigendum: Allenylidene Indenyl Ruthenium(II) Complexes as Sources of Highly Functionalized Alkynyl Complexes: Synthesis of the First Bimetallic Derivatives containing a Vinylidene-Carbene Bridge, 291

Synthesis and Molecular Structure of a Complex Containing all three Intermediates of the Carbene Synthesis from Coordinated Isocyanides, 569

Stereoselective Cyclopropanation of 1-Azadienes with Fischer Carbene Complexes, 665

A Carbene-Stannylenyl Adduct with a Long Tin-Carbon Double Bond?, 1157

Liquid-crystalline Gold(I)-Carbene Complexes, 1215

Stable Carbenes as Strong Bases, 1267

Syntheses of Acyloxy Carbene Complexes M(SnPh₃)(CO)_{*n*}{=C-(OCOR)Ph}(η -C₅H₅) (M = Mo, W, *n* = 2, R = Me; M = Fe, Ru, *n* = 1, R = Me, Ph, Bu^t) and X-Ray Crystal Structures of Fe(SnPh₃)(CO){=C(OCOR)Ph}(η -C₅H₅) (R = Me, Ph), 1511

Unexpected and Easy Annulation of Fischer-type Phenylethenyl Carbene Complexes, 1973

CARBENE COMPLEX

Unusual Reaction of Tricarbonyl(*o*-chinodimethane)iron with *o*-Lithiobenzylidimethylamine: Crystal Structure of

[Fe{Me₂NCH₂C₆H₄C(OEt)CH₂C₆H₄CH₂}(CO)₃], 2089

Optically Active Naphthalene-Cr(CO)₃ Complexes via Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535

CARBENOID

Corrigendum: Intramolecular Generation and Rearrangement of Ammonium Ylides from Copper Carbenoids: a General Method for the Synthesis of Cyclic Amines, 503

Hydroxy Direction of the Rhodium-mediated Dipolar Cycloaddition of Cyclic Carbenoids with Vinyl Ethers, 673

The First Example of Enantioselective Carbenoid Addition to Organochalcogen Atoms: Application to [2,3]Sigmatropic Rearrangement of Allylic Chalcogen Ylides, 1245

CARBENOID COUPLING

Towards Enediyne Libraries: Cyclic Enediyne *via* an Intramolecular Carbenoid Coupling Protocol, 1791

CARBIDE

From Butadiynyl ($-\text{C}\equiv\text{C}-\text{C}\equiv\text{CR}$) Ligands to Alkylidyne-Carbides: Synthesis and Characterisation of the Unusual Hexanuclear Ruthenium Carbido Clusters $[\text{Ru}_6(\text{CO})_{13}(\mu-\text{CO})_2(\mu-\text{PPH}_2)(\mu_5-\text{C})(\mu_3-\text{C}-\text{C}\equiv\text{CR})]$ ($\text{R} = \text{Bu}^t, \text{Ph}$), 327

The Formation of Nanoparticulate Cobalt Carbide, Co_2C , Encapsulated in an Amorphous Siliceous Matrix, 2065

CARBIDO

The Synthesis and Characterisation of $[\text{Ru}_6\text{C}(\text{CO})_{15}(\mu_3-\eta^1: \eta^2: \eta^2-\text{C}_{16}\text{H}_{16}-\mu_2-\text{O})]$: An Intermediate in the Formation of the Carbido-cluster $[\text{Ru}_6\text{C}(\text{CO})_{14}(\mu_3-\eta^2: \eta^2: \eta^2-\text{C}_{16}\text{H}_{16})]$, 771

CARBINOL

Asymmetric Synthesis of the Enantiomers of the Diarylcarbinol (1*R*)- and (1*S*)-1-(1-Hydroxyphenylmethyl)-2-hydroxybenzene, 251

CARBOCATION

A Reaction of γ -Chalcogen-substituted Prop-2-ynyl Cations with Mild Nucleophiles, 149

CARBOCYCLE

Formation of a Five-membered Carbocyclic Ring by Reaction of Zirconacyclopentane with RCOCl ($\text{R} = \text{Ph}, \text{Pr}^i, \text{Et}$), 1503

CARBOFORMYLATION

Palladium-catalysed Cyclisation-Carboformylation. Molecular Queuing Cascades, 1135

CARBOHYDRATE

Novel Stereoselective Syntheses of Chiral 2,6-Dideoxy-6,6,6-trifluoro Sugars *via* Enzymatic Resolution of Trifluoromethylated Propynyl Alcohol, 51

Synthesis of 1,2-Cyclopropanated Sugars from Glycals, 217

Electrophilic Azidation of 2-Deoxy-aldono-1,5-lactones: an Alternative Route to 2-Azido-2-deoxy-aldopyranoses, 221

Efficient Access to Polyfunctionalized and Polycyclic Furanoids:

Control of the Off-template Centre *via* Acid Catalysis, 239

Flash Chiral Chromatography using Carbohydrate Carbamate-coated Silica, 301

Synthesis of Sugar Episulfides and Olefins from *vic*-Diols *via* Cyclic Sulfates, 461

A New Approach to Carbohydrate Functionalized Aromatic Compounds, 645

A Stereoselective and Preparative Entry to 1,2-Anhydrosugars through Oxidation of Glycals with Perfluoro-*cis*-2,3-dialkyloxaziridines, 901

An Entry to Enantiomerically Pure *cis* Decalinic Structures from Carbohydrates, 937

Reductive Cleavage as a Route to Carbohydrate Enolates.

Applications to the Synthesis of C-Linked Disaccharides, 967

Carbohydrate-based Liquid Crystals: New Compounds showing Re-entrant TGB_A and Cholesteric Phases and Dopant-induced TGB_A , S_A and S_C^* Phases, 1047

Molecular Recognition of Carbohydrates by Functionalized Zinc Porphyrins, 1257

Samarium(II) Iodide Promoted Ring Contraction of Carbohydrate Derivatives: an Expedient Synthesis of Functionalised Cyclopentanes, 1373

An Unexpected Palladium-catalysed Cyclisation on Carbohydrate Templates, 1893

The Synthesis and Properties of a Calixarene-based 'Sugar Bowl', 1997

A Novel Strategy for Regio- and Stereo-control in Glycosylation Reactions: Template-directed Cyclo-glycosylation of Monosaccharides, 2005

CARBON

Observations on the Unusual Stereochemistry of the Oxidative Cleavage of Palladium-Carbon Bonds, 271

Filling Carbon Nanotubes with Small Palladium Metal Crystallites: the Effect of Surface Acid Groups, 1355

Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 1803

Gas-phase Generation and Spectroscopy of the Unstable NCCNO Molecule, 1901

Corrigendum: Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 2579

CARBON-13 NMR

Helicity Interchange in Pendant Arm Tetraaza Macrocyclic Sodium(I) Complexes, 97

CARBON DIOXIDE

Novel Electrochemical Reactivity of $\text{Ni}(\text{cyclam})\text{Br}_2$: Catalytic Carbon Dioxide Incorporation into Epoxides, 43

A Stable and Active Nickel-based Catalyst for Carbon Dioxide Reforming of Methane to Synthesis Gas, 71

Synthesis of Methylamines from Carbon Dioxide and Ammonia, 73
Photosynthesis of CH_4 at a TiO_2 Surface from Gaseous H_2O and CO_2 , 533

Novel Synthesis of Oxalate from Carbon Dioxide and Carbon Monoxide in the Presence of Caesium Carbonate, 633

Methyl Formate Synthesis by Hydrogenation of Supercritical Carbon Dioxide in the Presence of Methanol, 707

Selective Photoreduction of Carbon Dioxide to Methanol on Titanium Dioxide Photocatalysts in Propylene Carbonate Solution, 829

Light Olefin Synthesis from Carbon Dioxide by Hydrogenation over $\text{Fe}_3(\text{CO})_{12}$ Supported on ZSM-5 Zeolite Catalyst, 1025

Remarkable Decrease in Overpotential of Oxalate Formation in Electrochemical CO_2 Reduction by a Metal-Sulfide Cluster, 1223

Complexes $[(\text{P}_2)\text{Rh}(\text{hfacac})]$ ($\text{P}_2 = \text{Bidentate Chelating Phosphane}$, $\text{hfacac} = \text{Hexafluoroacetylacetonate}$) as Catalysts for CO_2

Hydrogenation: Correlations between Solid State Structures, ^{103}Rh NMR Shifts and Catalytic Activities, 1479

Ethylene Oxide-mediated Reduction of CO_2 to CO and Ethylene Glycol catalysed by Ruthenium Complexes, 1489

Efficient Spontaneous 1 : 1 Copolymerization of Bis(ynamine)s with Carbon Dioxide to Poly(4-pyrone)s, 2417

CARBON DIOXIDE FIXATION

Copper(II) and Zinc(II) Macrocyclic Complexes with High Efficiency in Fixing CO_2 . Crystal Structures of $\{[\text{ZnL}]_3(\mu_3-\text{CO}_3)\} \cdot (\text{ClO}_4)_4$ and $\{[\text{CuL}]_3(\mu_3-\text{CO}_3)\} \cdot (\text{ClO}_4)_4$ ($\text{L} = [\text{15}]_{\text{aneN}_3\text{O}_2}$), 1555

CARBON DISULFIDE

Synthesis and Molecular Structure of $[\text{K}(18\text{-crown-6})] \cdot [(\text{CO})_4\text{FePPh}_2\text{CS}_2]$, 1049

CARBON MONOXIDE

Novel Synthesis of Oxalate from Carbon Dioxide and Carbon Monoxide in the Presence of Caesium Carbonate, 633

New Electrochemical Synthesis of Ketones from Organic Halides and Carbon Monoxide, 2331

CARBON SUBOXIDE

Kinetic and Theoretical Studies of the Hydration of Carbon Suboxide, 2547

CARBONATE

Novel Electrochemical Reactivity of $\text{Ni}(\text{cyclam})\text{Br}_2$: Catalytic Carbon Dioxide Incorporation into Epoxides, 43

Habit Modification in Synthetic Crystals of Aragonite and Vaterite, 1031

CARBON-CARBON ACTIVATION

Carbon-Carbon Activation by Rhodium in Solution; $\text{sp}^2\text{-sp}^3$ is Preferred Over $\text{sp}^3\text{-sp}^3$ Bond Cleavage, 1965

CARBON-CARBON COUPLING

Zirconocene-like Reactivity of Half-sandwich Tantalum Imido Complexes: New C-C Coupling Reagents, 2261

CARBONIC ANHYDRASE

The Synthesis and Structure of $\{[\text{Pim}^{\text{Pr}^i, \text{Bu}^t}]\text{ZnOH}\}(\text{ClO}_4)$: A tris-(Imidazolyl)phosphine Zinc Hydroxide Complex and a Proposed Structural Model For Carbonic Anhydrase, 1813

CARBONIZED POLYIMIDE

Molecular Sieving Effect of Carbonized Kapton Polyimide Membrane, 1179

CARBONYL

The Structure of $\text{W}(\text{CO})_5\text{L}$ ($\text{L} = \text{pyridine, piperidine}$) in the Lowest Ligand Field Excited State determined by Fast Time-resolved IR Spectroscopy; Unexpected C-O Bond Length Changes, 391

Synthesis of $[\text{AuFe}_2(\text{CO})_8]^{3-}$ and $[\text{Au}_4\text{Fe}_4(\text{CO})_{16}]^{4-}$: X-Ray Structure of the $[\text{Au}_4\text{Fe}_4(\text{CO})_{16}]^{4-}$ Cluster Anion in its $[\text{NET}_4]^+$ salt, 433

$[\text{Ru}_6(\text{CO})_{18}]^{2-}$ in NaX Zeolite Cages: Characterization by EXAFS and FTIR Spectroscopy, 507

Organotitanium Oxides as Lewis Acidic Supports of Metal Carbonyl Species: $\{[\text{Ti}_3(\eta^5-\text{C}_5\text{Me}_5)_3(\mu-\text{O})_3\text{Me}]\}(\mu-\text{OC})\text{M}(\text{CO})_2(\eta^5-\text{C}_5\text{H}_5)_2]$ ($\text{M} = \text{Mo, W}$), 551

Measurement of an Exceedingly Long Metal Carbonyl C-O Bond by Single Crystal X-Ray Diffraction in $\text{Ru}_8(\mu-\text{H})_2(\mu_6-\eta^2-\text{CO})(\text{CO})_{19}(\eta^6-\text{C}_{16}\text{H}_{16})$, 555

Synthesis of γ -Hydroperoxy- α, β -unsaturated Carbonyl Compounds from $\alpha, \beta, \gamma, \delta$ -Unsaturated Carbonyl Compounds by Cobalt(II) Porphyrin-catalysed Hydroperoxygenation, 567

Dynamic Disorder in $[\text{Fe}_2\text{Os}(\text{CO})_{12}]$. Structural Evidence of the Metal Triangle Rotation, 1219

α -Regioselective Carbonyl Allylation by an Allylic Tin Compound Prepared from 1-Bromobut-2-ene and Tin(II) Bromide at a Nonpolar Organic-Aqueous Interface, 1405

Characterisation of Ruthenium Clusters carrying Facial Arene Ligands using Ultraviolet Laser Desorption Mass Spectrometry: Aggregation of Gas-phase Monocharged Anionic Clusters from Neutral Molecular Clusters, 1689

Dialkylation of α -Diketone Ketals with 1,8-Bis(trimethylsilyl)octa-2,6-diene, 1847

Coordination of SnCl_2 and GeCl_2 onto a One-dimensional Platinum Network: Synthesis and Structural Characterization of the $[\text{PPH}_4]_2\text{-}[\text{Pt}_8(\text{ECl}_2)_4(\text{CO})_{10}]$ ($\text{E} = \text{Sn, Ge}$) Complexes, 2055

Tetrahedral Platinum Carbonyl Clusters, 2381

CARBONYL CATION

Anomalous Nitrations of α, β -Unsaturated Esters: a Role for α -Carbonyl Cations?, 559

CARBONYL COMPLEX

- Electrospray Mass Spectrometry of Neutral Metal Carbonyl Complexes using Silver(I) Ions for Ionisation, 2531
Optically Active Naphthalene-Cr(CO)₃ Complexes via Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535

CARBONYL OXIDE

- The Synthesis of Novel 3,4-Dihydro-1,2,5,7,4-tetroxazocine Derivatives via Extended [3 + 3 + 2] Cycloaddition Reactions between a Carbonyl Oxide, a Nitron and an Aldehyde, 1469

CARBONYLATION

- Cis*-[RhI(CO)(Ph₂PCH₂P(S)Ph₂)]: A New Catalyst for Methanol Carbonylation, 197
Zirconium-promoted Intramolecular Cyclization of Terminal Alkynes and Unusual Carbonylation Reaction, 1009
Dramatic Acceleration of Migratory Insertion in [MeIr(CO)₂I₃]⁻ by Methanol and by Tin(II) Iodide, 1045
Novel Catalysts for the Carbonylation of Methanol, 1579

CARBOXYLATE

- Radical-chain Decomposition of Cyclohexa-1,4-diene-3-carboxylates and 2,5-Dihydrofuran-2-carboxylates, 27
A Novel Receptor for Amino Acid Derivatives, 305
Reduction of Carboxylates to Alkanols catalysed by *Colletotrichum gloeosporoides*, 439
An Intramolecular W-H...O=C Hydrogen Bond? Electrosynthesis and X-Ray Crystallographic Structure of [WH₃(η¹-OCOMe)-(Ph₂PCH₂CH₂PPh₂)₂], 1569
Tetranuclear Vanadium(III) Carboxylate Chemistry, and a New Example of a Metal Butterfly Complex exhibiting Spin Frustration: Structure and Properties of [V₄O₂(O₂CEt)₇(bpy)₂](ClO₄), 2517

CARBOXYLIC ACID

- A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylidene Oxide, 81
An Asymmetric Synthesis of Novel Aminocyclopropyl Carboxylic Acids (ACC), 141
Corrigendum: A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylidene Oxide, 801
Correlations between Molecular Motion in the Solid State and Liquid-crystalline Phase Transitions for Two Hydrogen-bonded Carboxylic Acid-Pyridyl Complexes, 1883
Regioselective Acylation of Anisole with Carboxylic Acids over HZSM-5 Catalyst, 2307

CARBENE

- New Routes To Molybdenum and Tungsten Carbene Complexes [M(CO)₂(=CPh)(η-C₅H₄R)] (M = Mo or W, R = SnPh₃; M = W, R = H), 515

CARCEPLEX

- A Tetrathiol Bowl-shaped Cavitand and a Derived Carceplex, 307
Synthesis and Functionalization of Calix[4]arene-based Carceplexes, 1941

CARCERAND

- Comparisons of Activation Energies for Dimethyl Sulfoxide Rotations in the Inner Phase of Seven Carcerands, 1259

CAROTENE

- Novel Reactions of Nitric Oxide in Biological Systems, 915

CAROTENOID

- Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 187
Corrigendum: Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 1195

CATALYSIS

- A New and Simple Method for the Preparation of Active Ti-β Zeolite Catalysts, 23
A Stable and Active Nickel-based Catalyst for Carbon Dioxide Reforming of Methane to Synthesis Gas, 71
Synthesis of Methylamines from Carbon Dioxide and Ammonia, 73
NH₃ Formation during the Reduction of Nitrogen Monoxide by Propane on H-Cu-ZSM-5 in Excess Oxygen, 89
Rh₂(OAc)₄-Catalysed Cycloaddition of Ethyl Diazoacetate to 1,2-Dialkoxybenzenes: a New Type of Stable Norcaradiene, 101
H/D Exchange of Organosilanes catalysed by Heterogenised Zirconium Hydride Complexes, 137
Novel Mesoporous Titania-Silica Aerogels Highly Active for the Selective Epoxidation of Cyclic Olefins, 163
First Cobalt(I)-catalysed Heterocyclotrimerization of Ethyne with Nitriles to Pyridines in Water under Mild Conditions, 179
Ruthenium Complex-catalysed Selective Redistribution Reaction of Aryltrihydrosilanes and Desalinative Polymerization of Bis-(trihydrosilyl)benzenes, 193
Single-pot Synthesis of Methyl *tert*-Butyl Ether from *tert*-Butyl Alcohol and Methanol: Dodecatungstophosphoric Acid supported on Clay as an Efficient Catalyst, 203
Novel Large-pore Vanadium Alumino- and Boro-silicates With BEA Structure, 207
Synthesis of 7-Hydroxycoumarins catalysed by Solid Acid Catalysts, 225

- n*-Butane Oxidation to Maleic Anhydride and Furan with no Carbon Oxide Formation using a Catalyst derived from VO(H₂PO₄)₂, 243
Catalytic Synthesis of Unsaturated Nitriles from NO-Alkane or NO-Alkene on Pt-Sn/SiO₂, 329
Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ induced Triphase Catalysis in the Oxidation of Hydrophobic Organic Compounds with Significant Enhancement of Activity and *Para*-Selectivity, 349
Synthesis and Catalytic Bifunctional Properties of Tungsten Oxytrifides, 359
Total Oxidation of Chlorinated Hydrocarbons by Copper and Chlorine based Catalysts, 365
Titanium Substitution in Silicon-free Molecular Sieves: Anatase-free TAPO₄-5 and TAPO₄-11 Synthesis and Characterisation for Hydroxylation of Phenol, 373
Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 427
Diastereoselective Reductions of β-Substituted-γ-Keto Sulfoximines and a Novel Palladium(0)-catalysed Allylic Sulfoximine to Allylic Sulfinamide Rearrangement, 445
[NiCl₂(PPh₃)₂] catalysed Transfer Hydrogenation of Ketones and Aldehydes by Propan-2-ol, 465
Mesoporous Aluminosilicate MCM-41 as a Convenient Acid Catalyst for Friedel-Crafts Alkylation of a Bulky Aromatic Compound with Cinnamyl Alcohol, 519
A New Titanium-Silica Catalyst for the Epoxidation of Non-functionalized Alkenes and Allylic Alcohols, 539
First Example of an Antibody-catalysed Hetero-Diels-Alder Reaction, 571
Catalytic Hydrolysis of Phosphate Monoesters by Lanthanide(III) Cryptate (2.2.1) Complexes, 575
Corrigendum: The Importance of Peripheral Association for Vitamin B₁₂ catalysed Methylmalonyl-Succinyl-Rearrangement, 605
Catalytic Halogenation of Selected Organic Compounds Mimicking Vanadate-dependent Marine Metalloenzymes, 611
On the Mechanism of Titanocenedichloride-catalysed Hydromagnesiation of Alkynes with Alkyl Grignard Reagents, 659
(Diphenylphosphino)-biheteroaryls: the First Example of a New Class of Chiral Atropisomeric Chelating Diphosphine Ligands for Transition Metal Catalysed Stereoselective Reactions, 685
Rate-enhancing Multi-site Interaction in the Hydrolysis of a Cationic Ester Catalysed by a Cu²⁺ Complex of an Anionic Surfactant Ligand in Anionic Sodium Dodecyl Sulfate Micelles, 691
Synthesis of SiVPI-5 with Enhanced Activity in Acid Catalysed Reactions, 731
Novel Preparation of Metal-supported Catalysts by Colloidal Microparticles in a Water-in-oil Microemulsion; Catalytic Hydrogenation of Carbon Dioxide, 763
Synthesis of a Highly Active Supracid of Platinum-supported Zirconia for Reaction of Butane, 789
New Homogeneous Rhenium-based Metathesis Catalysts as Models of the Rhenium on Alumina Heterogeneous Catalyst, 791
Detection of Surface CN and NCO Species as Possible Reaction Intermediates in Catalytic Lean NO_x Reduction, 813
Efficient Dimethyl Malonate Synthesis by Methoxycarbonylation of Dichloromethane catalysed by Electrogenerated [Co(CO)₃PBu₃]⁻ Species, 847
Regio- and Stereo-selectivity in the Hydrogenation of Aryl Phosphines by Niobium Aryloxide Compounds, 849
Metathesis of Phosphorus-containing Olefins catalysed by a Cyclometallated Aryloxo(chloro)neopentylidene-Tungsten Complex, 857
Novel Iridium Complexes of an Azine Diphosphine: Very Reactive Iridium(I) Species formed by a Unique Isomerisation of an Iridium(III) Hydride. A New Method of creating Coordinative Unsaturation, 865
Single Step Selective Oxidation of *para*-Chlorotoluene to *para*-Chlorobenzaldehyde over Vanadium Silicate Molecular Sieves, 883
Novel Palladium-catalysed Cyclodimerization of Butadiene in the Presence of Carbon Dioxide and Water, 931
Oxidation of C₂, C₃ and Higher Alkanes by a Ruthenium-Oxo System, 943
CeO₂-based Solid Solutions with the Fluorite Structure as Novel and Effective Catalysts for Methane Combustion, 965
Activation and Functionalisation of the C-H Bonds of Methane and Higher Alkanes by a Silica-supported Tantalum Hydride Complex, 991
The Parallel between Phenyl-initiated C-C Coupling Reactions in Dirhodium Complexes and those Catalysed by Rhodium Particles, 1089
Stereospecific Synthesis of α- and β-C-Aryl-Δ²-Glycopyranosides from *p-tert*-Butylphenyl α-O-Δ²-Glycopyranoside via Grignard Reagents, 1103
Catalytic Conversions in Water: ¹⁷O, {¹H} ³¹P and ³⁵Cl NMR Study of a Novel Stoichiometric Redox Reaction Between PdCl₂, tppts and H₂O [tppts = P(C₆H₄-*m*-SO₃Na)₃], 1105
Ruthenium-based Catalysts for the Ring Opening Metathesis Polymerisation of Low-strain Cyclic Olefins and of Functionalised Derivatives of Norbornene and Cyclooctene, 1127

- Palladium-catalysed Cyclisation–Carboformylation. Molecular Queuing Cascades, 1135
- A Remarkable Synergic Effect of Polymer-anchored Bimetallic Palladium–Ruthenium Catalysts in the Selective Hydrogenation of *p*-Chloronitrobenzene, 1155
- Rhodium Catalysed Rearrangement of 1,2-Diphenylhydrazine to *o*-Semidine, 1177
- Homogeneous Catalysis: Use of Chiral Titanocene Complexes for Asymmetric Catalytic Diels–Alder Reactions, 1181
- Direct Synthesis of Propene Oxide by using an EuCl_3 Catalytic System at Room Temperature, 1185
- Corrigendum*: Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5 , 1195
- Unprecedented Iridium Catalysed Group Transfer Reactions of 1,3-Thiazanes, 1199
- The Formation of Gas Phase Benzyl Radicals during the Reaction of Toluene and Nitrous Oxide over Li-MgO and $\text{Sr-La}_2\text{O}_3$ Coupling Catalysts, 1203
- Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Chemoselective Epoxidation of Alkenes with TBHP, 1341
- Localized Basification of Catalytic Surfaces enhances the Selective Oxidation of L-Sorbose over Supported Pt Catalysts modified with Tertiary Amines, 1377
- A New MAS NMR Probe for *in situ* Investigations of Hydrocarbon Conversion on Solid Catalysts Under Continuous-flow Conditions, 1423
- Formic Acid Promotion of Transition-metal Catalysed Isomerization of Methyl Formate, 1557
- Well-defined Ethylene Polymerisation Catalysts derived from Bis-(imido) Chromium(vi) Precursors, 1709
- Ruthenium(II) Complexes with New Tridentate Ligands containing P, N, O Donor Atoms: Highly Efficient Catalysts for Transfer Hydrogenation of Ketones by Propan-2-ol, 1721
- Catalytic Asymmetric Synthesis of α -Methylene- β -hydroxy-ketones, 1755
- New $\text{TiF}_4/\text{SiO}_2$ Catalysts for Liquid-phase Epoxidations with Aqueous H_2O_2 , 1775
- Preparation and Study of Dinuclear Zinc(II) Complex for the Efficient Hydrolysis of the Phosphodiester Linkage in a Diribonucleotide, 1793
- FSM-16: A Recyclable Mesoporous Acid Promoter for *meso*-Tetraarylporphyrin Synthesis, 1801
- New Chiral β -Phosphinocarboxylic Acids and their Application in Palladium-catalysed Asymmetric Allylic Alkylations, 1845
- Stereoselective Reduction of 4-*tert*-Butylcyclohexanone to *cis*-4-*tert*-Butylcyclohexanol catalysed by Zeolite BEA, 1859
- Nickel-catalysed Substitution Reactions of Allylic Compounds with Soft Nucleophiles: an Efficient Alternative to Palladium Catalysis, 1863
- Homogeneous Catalytic Hydroformylation of Vinylarenes: A Selective Rhodium Diphosphine Catalyst System for Higher Branched/Linear Product Ratios, 2031
- Preparation of Cationic (*E*)- σ -Alkenyl Palladium Complexes having a P–O–N or a P–O–P Tridentate Ligand as a Stabilized Intermediate of Palladium-catalysed Stereoselective Addition of Methanol to Acetylenes; Characterisation, X-Ray Analysis and the Reaction Pathway, 2099
- Anomalous Enhancement of the Catalytic Activity of Ferroelectrics-combined Palladium by Resonance Oscillations, 2101
- Hydrodechlorination of Tetrachloromethane over Supported Pt Catalysts, 2169
- Effect of the Bite Angle of Diphosphine Ligands on Activity and Selectivity in the Nickel-catalysed Hydrocyanation of Styrene, 2177
- A Novel Hexanuclear Heteropolyperoxo Oxidation Catalyst: Preparation, X-Ray Crystal Structure and Reactions of $[\text{NMe}_4]_3\text{-}[(\text{MePO}_3)\{\text{MePO}_2(\text{OH})\}\text{W}_6\text{O}_{13}(\text{O}_2)_4(\text{OH})_2(\text{OH}_2)]\cdot 4\text{H}_2\text{O}$, 2183
- Room-temperature Synthesis of a Highly Active Vanadium-containing Mesoporous Molecular Sieve, V-HMS, 2231
- Synthesis of CoVPI-5 with Bifunctional Catalytic Activity, 2255
- Catalysis by μ -Oxo Diiron(III) Complexes of the Methanolysis of Epoxides and the Addition of Alcohols and Thiols to Phenyl Isocyanate, 2265
- Ruthenium-catalysed Cyclocarbonylation of 1,1'-Bis(silylethynyl)-ferrocene involving the 1,2-Migration of a Silyl Group, 2267
- Alkene Oxidation in Water using Hydrophobic Silica Particles derivatized with Polyoxometalates as Catalysts, 2277
- Selective Production of Hydrazine by a Catalytic Oxidation Process over Ti-, V-, Vi-V- and Ti-B-Silicalites, 2281
- Effect of Magnesium Fluoride in Chromium–Magnesium Catalysts on the Fluorination Reaction of 1,1,1-Trifluoro-2-chloroethane, 2383
- Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409
- A Novel Dinuclear Ruthenium–1,8-Naphthyridine Catalyst for the Oxidation of Alcohols and the Epoxidation of Alkenes, 2465
- Synthesis and Catalytic Properties of Mesoporous Tin Silicate Molecular Sieves, 2495
- Synthesis of 2-Methylpropan-1-ol–Methanol Mixtures from H_2 –CO Synthesis Gas over Double-bed $\text{Cs/Cu/ZnO/Cr}_2\text{O}_3$ and $\text{Cs/ZnO/Cr}_2\text{O}_3$ Catalysts, 2525
- Preparation of Zeolites incorporating Molybdenum Sulfide Clusters with High C_2 Hydrocarbon Selectivity in CO-H_2 Reactions, 2533
- Corrigendum*: Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 2579
- CATALYST**
- Synthesis and Characterization of a Novel Vanadium Analogue of ALPO-31, 151
- Light Olefin Synthesis from Carbon Dioxide by Hydrogenation over $\text{Fe}_3(\text{CO})_{12}$ Supported on ZSM-5 Zeolite Catalyst, 1025
- Molecular Modelling of Supported Metal Catalysts: SiO_2 -grafted $[(\eta^3\text{-C}_4\text{H}_7)_2\text{Rh}]_2\text{V}_4\text{O}_{12}$ and $[\{\text{Rh}(\text{C}_2\text{Me}_5)_4\text{V}_6\text{O}_{19}\}]_n$ are Catalytically Active in the Selective Oxidation of Propene to Acetone, 1301
- Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu-Mg-Al Hydrotalcite, 2057
- High Esterolytic Activity of a Novel Water-soluble Polymer Catalyst Imprinted by a Transition-state Analogue, 2143
- Probing the Onset of Crystallization of a Microporous Catalyst by Combined X-ray Absorption Spectroscopy and X-ray Diffraction, 2549
- CATECHOLAMINE**
- Ion-channel-forming and Catecholamine-releasing Activities of Elongated and Truncated Analogues of Trichosporin-B, 2203
- CATENANE**
- Amide-based Furano-catenanes: Regioselective Template Synthesis and Crystal Structure, 777
- [2]Catenane or not [2]Catenane?, 809
- CATENATE**
- The First Application of Samarium(II) Diiodide for the Formation of Group 14 Element Catenates: Synthesis of Tri- or Poly-germanes and Polystannanes, 2275
- CATION EXCHANGE**
- Base and Acid Catalysis by the Alkali-containing MCM-41 Mesoporous Molecular Sieve, 1005
- CATION RADICAL**
- Stepwise but Potentially Stereoselective Intramolecular [2 + 2] Cycloaddition of 2,6-Diarylocta-1,6-dienes *via* a 1,4-Cation Radical Intermediate, 521
- CATIONOPHORE**
- Selectivity in Redox-switched Calix[4]arene Cationophores: Electrochemical Detection of a Conformational Change on Cation Binding, 675
- CAVITAND**
- A Tetrathiol Bowl-shaped Cavitand and a Derived Carceplex, 307
- CAVITATION**
- Effects of Particle Size Morphology on Ultrasonic-induced Cavitational Mechanisms in Heterogeneous Systems, 201
- CERAMIC**
- Oxidative Coupling Reaction of CH_4 Using Oxide Ion and Electron Hole Mixed Conductive $\text{BaCe}_{0.8}\text{Gd}_{0.2}\text{O}_{3-\alpha}$ Ceramic as a Membrane Reactor, 1001
- CERIA**
- CeO_2 -based Solid Solutions with the Fluorite Structure as Novel and Effective Catalysts for Methane Combustion, 965
- CERIUM**
- Facile Syntheses of α,α -Difluoro- β -ketophosphonates, 2111
- A Novel and Simple Route to Catalysts with a High Oxygen Storage Capacity: the Direct Room-temperature Synthesis of CeO_2 – ZrO_2 Solid Solutions, 2181
- CFC**
- Interconversion of Chlorofluorocarbons in Plasmas, 347
- CHAIN REACTION**
- Radical-chain Decomposition of Cyclohexa-1,4-diene-3-carboxylates and 2,5-Dihydrofuran-2-carboxylates, 27
- CHALCOGEN**
- A Reaction of γ -Chalcogen-substituted Prop-2-ynyl Cations with Mild Nucleophiles, 149
- CHALCOGEN YLIDE**
- The First Example of Enantioselective Carbenoid Addition to Organochalcogen Atoms: Application to [2,3]Sigmatropic Rearrangement of Allylic Chalcogen Ylides, 1245
- CHALCONE ANALOGUE**
- Novel Copper(II)-mediated Photocyclization of Methoxynaphthyl Analogues of Chalcone: Unusual Electron Transfer from Excited Vinyl Arenes, 957
- CHARGE SEPARATION**
- Kinetic and Standard Thermodynamic Parameters of Photoinduced Charge Separation Reactions in a Bichromophoric Anthracene-containing Molecule from Time-resolved Fluorescence Measurements in Different Solvents and Solvent Mixtures and at Different Temperatures, 2171
- CHARGE TRANSFER**
- Photoinduced Intramolecular Charge Transfer in 4-Donor, 4'-Acceptor Substituted Dimethyldiphenylsilanes, 35

- Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO₂ Films, 65
- Corrigendum*: Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO₂ Films, 1093
- Methyl Viologen-Zeolite Electrodes: Intrazeolite Charge Transfer, 1313
- Metal-to-ligand Charge Transfer Photochemistry: Potential Energy Curves for the Homolysis of the Model System HMn(CO)₃(α -diimine), 1427
- Ethylenedithio(ethylenedioxy)diselenadithiafulvalene (TOST) and Ethylenediseleno(ethylenedioxy)tetrathiafulvalene (SO): New Unsymmetrical π -Donors containing Three Elements in Group 16 (O, S, and Se), 2493
- CHELATION**
- Attachment of Chelating Capacity to [60]Fullerene *via* Short Rigid Rods, 1417
- Novel Optically Active 7,7'-Bridged-1,1'-bisoquinolines and their Chelation to Rhodium(I) Ion, 1637
- Catalyst-Substrate Complexes of Chiral Seven-membered Ring Chelates of Rhodium(I)-bis(phosphinites), 1745
- CHEMICAL VAPOUR DEPOSITION**
- First Volatile Alkylgallyl Manganese Complexes; Structure of [(CO)₅Mn]₂Gal[(CH₂)₃NMe₂]. Molecular Control of the Stoichiometry of Mn-Ga Thin Films Grown by Low-pressure MOCVD, 337
- CHEMILUMINESCENCE**
- Thermal Stability and Chemiluminescence of 3-Alkoxy-3-aryl-4,4-diiisopropyl-1,2-dioxetanes, 431
- Chemi- and Bio-luminescent Properties of Coelenterazine Analogues Possessing an Adamantyl Group, 1335
- CHEMISORPTION**
- ¹⁹F to ¹H and ¹H to ¹⁹F Cross Polarization MAS NMR of Trifluoroethanol Chemisorbed on Magnesium Oxide, 1795
- CHEMOENZYMATIC SYNTHESIS**
- Chemoenzymatic Synthesis of *trans*-4,5-Dihydroxycyclopent-2-enones: Conversion to D-1-Deoxynojirimycin, 1139
- CHEMOSELECTIVE**
- Chemoselective Carbon-Carbon Bond Formation Reactions of Zirconacyclopentenes, 109
- CHEMOSENSOR**
- A Cyclodextrin-Porphyrin Assembly as Chemosensor for Pentachlorophenol, 663
- CHIRAL AMMONIA EQUIVALENT**
- Lithium (α -Methylbenzyl)allylamide: A Differentially Protected Chiral Ammonia Equivalent for the Asymmetric Synthesis of β -Amino Acids and β -Lactams, 1109
- CHIRAL AUXILIARY**
- Utility of Diene-Tricarbonyliron Complexes as Mobile Chiral Auxiliaries: Highly Diastereoselective 1,5-Nucleophilic Substitution with 1,2-Migration of the Fe(CO)₃ Moiety, 631
- Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene-Manganese Tricarbonyl Complexes, 853
- CHIRAL CAVITY**
- Porphyrin Analogues of Tröger's Base: Large Chiral Cavities with a Bimetallic Binding Site, 1077
- CHIRAL CLEFT**
- Enantioselective Recognition of Histidine and Lysine Esters by Porphyrin Chiral Clefts and Detection of Amino Acid Conformations in the Bound State, 1925
- CHIRAL ENONE**
- Chemoenzymatic Synthesis of *trans*-4,5-Dihydroxycyclopent-2-enones: Conversion to D-1-Deoxynojirimycin, 1139
- CHIRAL FULLERENE**
- Reaction of C₆₀ with Cyclopent-2-enone Acetals. A Convenient Access to Chiral C₆₀ Derivatives, 1769
- CHIRAL HOST**
- Enantioselective Intramolecular [2 + 2] Photocycloaddition Reaction of *N*-Allyl-3-oxo-1-cyclohexenecarboxamides in Inclusion Crystals with Chiral Host Compounds, 621
- Optical Resolution of Methyl Phenyl and Benzyl Methyl Sulfoxides and Alkyl Phenylsulfonates by Complexation with Chiral Host Compounds Derived from Tartaric Acid, 639
- CHIRAL IMINE**
- Remote Asymmetric Induction in Reactions between 4- and 5-Benzyloxy-pent-2-enyl(tributyl)stannanes and Chiral Imines prepared from Butyl Glyoxylate, 657
- CHIRAL MODIFICATION**
- Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409
- CHIRAL MODIFIER**
- 1-(1-Naphthyl)ethylamine and Derivatives thereof as Chiral Modifiers in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt-Alumina, 1421
- CHIRAL PHOSPHINE LIGAND**
- Palladium-catalysed Asymmetric Hydrosilylation of Styrenes with a New Chiral Monodentate Phosphine Ligand, 1533
- CHIRAL RECOGNITION**
- A Crystallographic Map of Chiral Recognition in π Complexes of Aromatic Aldehydes and a Chiral Transition Metal Lewis Acid: Enantioface Binding Selectivities in Solution Correlate to Distances between Metal and Carbon Stereocentres in the Solid State, 279
- CHIRALITY**
- Axial and Helical Chirality of some Spiro-1,3-Dioxanes, 167
- Determination of the Chirality of Enantiomeric [¹⁶O, ¹⁷O, ¹⁸O] Sulfate Esters by IR Spectroscopy: an *Ab Initio* Evaluation, 701
- Guest-induced Assembly of a Chiral [2 + 2] Metallomacrocyclic, 1697
- On the Self-replication of Chirality, 1797
- A Topological Rubber Glove obtained from a Synthetic Single-stranded DNA Molecule, 2249
- CHIRALITY TRANSFER**
- High Chirality Transfer in Chiral Selenimides *via* [2,3]Sigmatropic Rearrangement, 1243
- CHIRALITY INVERSION**
- Chirality Inversion in HZSM-5 and Nafion-H Solid Acid-catalysed Synthesis of Ethers from Alcohols *via* Surface S_N2 Reaction, 1849
- CHLORIDE**
- Chloride and Phosphide-substituted Gallium Hydrides: [C₃PGaH_{3-n}Cl_n], *n* = 1 or 2, and Trimeric [(H₂Ga(μ -PCy₂))₃], 1669
- Remarkable Chloride over Dihydrogen Phosphate Anion Selectivity Exhibited by Novel Macrocyclic Bis[Ruthenium(II) Bipyridyl] and Ruthenium(II) Bipyridyl-Metalocene Receptors, 2245
- CHLORINATED HYDROCARBON**
- Total Oxidation of Chlorinated Hydrocarbons by Copper and Chlorine based Catalysts, 365
- CHLORINATION**
- A Structurally Characterized Dichloro-manganese(IV) Complex Capable of Halogenating Alkenes, 2015
- CHLORINE**
- Formation and Characterisation of C₇₀Cl₁₀, 683
- Pre-reactive Intermediates in Mixtures of Hydrocarbons with Chlorine Monofluoride: Characterisation of Ethyne...ClF and Ethene...ClF by Rotational Spectroscopy, 1833
- CHLORO**
- Reduction of Intermolecular Association in the Sterically Encumbered (Dichloroiodo)arene ArICl₂ [Ar = 2,6-bis(3,5-dichloro-2,4,6-trimethylphenyl)benzene], 1115
- The Synthesis and Crystal Structures of the Tetraphenylarsonium Salts of [V₂O₅(NO₃)₂X₄]²⁻, X = Cl or NO₃, 1733
- CHLOROBENZALDEHYDE**
- Single Step Selective Oxidation of *para*-Chlorotoluene to *para*-Chlorobenzaldehyde over Vanadium Silicate Molecular Sieves, 883
- CHLORODIFLUOROMETHYLKETONE**
- Facile Syntheses of *gem*-Difluoroalkenes from Chlorodifluoromethylketones, 1857
- CHLOROFLUOROCARBON**
- Interconversion of Chlorofluorocarbons in Plasmas, 347
- Dismutation of CFC-12 to CFC-13 over Chromia-Alumina Catalyst, 2377
- Effect of Magnesium Fluoride in Chromium-Magnesium Catalysts on the Fluorination Reaction of 1,1,1-Trifluoro-2-chloroethane, 2383
- CHLOROFORMATE**
- A General Synthesis of 1,7-Disubstituted 1,4,7,10-Tetraazacyclododecanes, 185
- CHLOROPHYLL A**
- Biosynthesis of Chlorophyll a from ¹³C-Labelled Mevalonates and Glycine in Liverwort. Nonequivalent Labelling of Phytol Side Chain, 2529
- CHLOROSILANE**
- Access to Stabilized Silyl Anions by Electroreduction of Chlorosilanes, 2107
- CHLOROSTANNANE**
- Synthesis of Allenyl- and Alkynyl-stannanes by Reduction of Allenyl- and Alkynyl-chlorostannanes, 699
- CHOLESTERIC PHASE**
- Carbohydrate-based Liquid Crystals: New Compounds showing Re-entrant TGB_A and Cholesteric Phases and Dopant-induced TGB_A, S_A and S_{C*} Phases, 1047
- CHOLIC ACID**
- Guest-participating Reversion of Molecular Arrangements in Asymmetric Multibilayers of Cholic Acid Inclusion Crystals, 953
- CHORISMATE MUTASE**
- Contribution of Transition-state Binding to the Catalytic Activity of *Bacillus subtilis* Chorismate Mutase, 63
- CHROMANE**
- Intermolecular Cycloaddition Reaction of Unactivated Alkenes and *o*-Quinone Methides generated by Electrochemical Oxidation: a Proposed Biomimetic Approach to the Euglobin Skeletons, 1381
- CHROMATOGRAPHY**
- Flash Chiral Chromatography using Carbohydrate Carbamate-coated Silica, 301

- On the Use of Hydrophobic Probes in the Chromatographic Purification of Solid-phase-synthesized Peptides, 779
- CHROMENE**
A New Electrosynthesis of 2,2-Dimethylchromenes from 2-(1-Bromo-1-methylethyl)benzofurans, 615
- CHROMIA**
Preparation of Porous Chromia-pillared Titanoniobate, 1865
Dismutation of CFC-12 to CFC-13 over Chromia-Alumina Catalyst, 2377
- CHROMIUM**
An Orthometallated Cyclopentadienyl Phosphine Bridge in a New Type of Heterobimetallic Complex: $[\eta^5\text{-C}_5\text{H}_5](\eta^5\text{-C}_5\text{H}_4)\text{Mo}\{\sigma\text{-C}_6\text{H}_4\text{P}(\text{Ph})\text{Cr}(\text{CO})_5\}\text{X}$ (X = Cl, I), 45
A Heptanuclear $\text{Cr}^{\text{III}}\text{Ni}^{\text{II}}_6$ Complex with a Low-lying $S = 1/2$ Ground State, 61
Asymmetric Synthesis of the Enantiomers of the Diarylcarbinol (1*R*)- and (1*S*)-1-(1-Hydroxyphenylmethyl)-2-hydroxybenzene, 251
Self-assembly of a Novel 14-Membered Metallamacrocyclic containing Two Chromium(III) Ions as Part of the Ring Skeleton, 963
Hosting Paramagnetic $[\text{Cr}(\text{C}_6\text{H}_6)_2]^+$ in an Organic Anion Framework via $\text{CH}\cdots\text{O}$ Hydrogen Bonds, 1023
Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Chemoselective Epoxidation of Alkenes with TBHP, 1341
Synthesis and Magnetism of Mixed Valency $[\text{N}(n\text{-C}_4\text{H}_9)_4\text{ or P}(\text{C}_6\text{H}_5)_4]\text{Cr}^{\text{II}}\text{Cr}^{\text{III}}(\text{C}_2\text{O}_4)_3$, 1513
Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Direct Oxidation of Primary Amines to Nitro Compounds with TBHP, 1523
Well-defined Ethylene Polymerisation Catalysts derived from Bis-(imido) Chromium(vi) Precursors, 1709
An Asymmetric Synthesis of an Axially Chiral Biaryl *via* an (Arene)chromium Complex: Formal Synthesis of (-)-Steganone, 1943
Effect of Magnesium Fluoride in Chromium-Magnesium Catalysts on the Fluorination Reaction of 1,1,1-Trifluoro-2-chloroethane, 2383
Optically Active Naphthalene-Cr(CO)₃ Complexes *via* Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535
- CHROMIUM TRICARBONYL**
Regioselective *ortho* Substitution of Diphenyl Sulfoxide Chromium Tricarbonyl: Complementary Stereoselectivities for the Mono- and Di-anions, 817
- CHROMOGENIC**
Molecular Recognition of Butylamines by a Binaphthyl-derived Chromogenic Calix[4]crown, 1727
- CHROMONE**
A Conjugate Addition—Radical Cyclisation Approach to Sesquiterpene Phenols, 403
- CHROMOPHORE**
Functionalized Azo Dyes by Direct Ullmann Coupling, 245
- CHYMOTRYPSIN**
Sugars Intensify the Inhibitory Effect of Phenylboronic Acid on the Hydrolytic Activity of α -Chymotrypsin, 29
- CIDNP**
Triplex Promoted Intersystem Crossing of Ion-Radical pairs in the Photosensitized Valence Isomerization of Quadricyclane: Chemically Induced Dynamic Nuclear Polarization (CIDNP) Evidence, 1055
- CINNAMYL ALCOHOL**
Total Synthesis of the Natural Goniodiol-8-monoacetate from Cinnamyl Alcohol, 743
- CIRCULAR DICHROISM**
Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative *via* Complementary Hydrogen Bonds, 2103
- CISPLATIN**
Facile Formation of a *cis*-Platin-Nonapeptide Complex of Human DNA Polymerase- α Origin, 1731
- CLAISEN**
The Construction of 1,3-Dienes Containing an *E*-Double Bond and an *exo*-Methylene Group, 1497
Stereoselective Synthesis of α -Alkylated γ,δ -Unsaturated Amino Acids *via* Claisen Rearrangement of Chelated Enolates, 1991
- CLARITHROMYCIN**
Conformational Analysis of the Erythromycin Analogues Azithromycin and Clarithromycin in Aqueous Solution and bound to Bacterial Ribosomes, 1653
- CLATHRASIL**
Solvent-free Synthesis of Clathrasils using Metal-Organic Complexes as Structure-directing Agents, 2559
- CLATHRATE**
Synthesis and X-Ray Crystal Structure of $[\text{H}_5\text{O}_2^+ \cdot 21\text{-Crown-7}][\text{WOC}_5^-]$, a Complex in which the 21-Crown-7 Molecule adopts a Rigid, Bowl-like Conformation, 1551
(4-Dimethylaminopyridine)₅(benzoic acid)₃(H₂O)₁₀, a Two-dimensional Clathrate Hydrate, 1705
- CLATHRATION**
COS Trapping by Palladium Pyrazolates: Addition *vs.* Clathration, 1955
- CLAY**
Single-pot Synthesis of Methyl *tert*-Butyl Ether from *tert*-Butyl Alcohol and Methanol: Dodecatungstophosphoric Acid supported on Clay as an Efficient Catalyst, 203
- CLEAVAGE**
DNA Cleavage by a 'Metalloporphyrin-spermine-oligonucleotide' Molecule, 181
2-(3-Methylthiopropyl)-1*H*-benz[*d,e*]isoquinoline-1,3(2*H*)-dione Derivatives as Novel Photo-induced DNA Cleavers, 311
- CLUSTER**
Triosmium Cluster Derivatives of [60]Fullerene, 15
Synthesis of Main-group Metal Clusters in Organic Solvents, 59
Synthesis and Structure of the Cluster [triangulo-AgHg₂(μ -dppm)₃]³⁺ [dppm = bis(diphenylphosphino)methane], 131
Ester Elimination *Versus* Ligand Exchange: the Role of the Solvent in Tin-Oxo Cluster-building Reactions, 157
The Synthesis and Characterisation of Ru₆(μ_3 -H)(μ_4 - η^2 -CO)₂(CO)₁₃(η^5 -C₅H₄Me)—an Example of Cluster Mediated Ring Contraction, 159
Synthesis and Molecular Structure of the Novel Triosmium Bis(benzene) Cluster [Os₃(CO)₆(η^6 -C₆H₆)(μ_3 : η^2 : η^2 : η^2 -C₆H₆)], 189
From Butadiynyl ($\text{-C}\equiv\text{C-C}\equiv\text{CR}$) Ligands to Alkylidyne-Carbides: Synthesis and Characterisation of the Unusual Hexanuclear Ruthenium Carbido Clusters [Ru₆(CO)₁₃(μ -CO)₂(μ -PPh₂)(μ_5 -C)(μ_3 -C \equiv CR)] (R = Bu^t, Ph), 327
Synthesis of [AuFe₂(CO)₈]³⁻ and [Au₄Fe₄(CO)₁₆]⁴⁻: X-Ray Structure of the [Au₄Fe₄(CO)₁₆]⁴⁻ Cluster Anion in its [NEt₄]⁺ salt, 433
[Ru₆(CO)₁₈]²⁻ in NaX Zeolite Cages: Characterization by EXAFS and FTIR Spectroscopy, 507
Synthesis and Molecular Structure of Tetraruthenium Clusters carrying Facial Arene Ligands, 537
Measurement of an Exceedingly Long Metal Carbonyl C-O Bond by Single Crystal X-Ray Diffraction in Ru₈(μ -H)₂(μ_6 - η^2 -CO)(CO)₁₉(η^6 -C₁₆H₁₆), 555
Polynuclear Clusters of Fused-ring Hydrocarbons. The Synthesis and X-Ray Structure of [Os₃H(CO)₉(μ_3 - η^2 - η^2 - η^5 -C₁₃H₁₅)] (C₁₃H₁₅ = 1,3-diethylindenyl), 755
The Synthesis and Characterisation of [Ru₆C(CO)₁₅(μ_3 - η^1 : η^2 : η^2 -C₁₆H₁₆- μ_2 -O)]: an Intermediate in the Formation of the Carbido-cluster [Ru₆C(CO)₁₄(μ_3 - η^2 : η^2 : η^2 -C₁₆H₁₆)], 771
The EPR Spectrum and Structure of the Mixed Alkali Metal Trimer Cluster Na₂Li Prepared using a Rotating Cryostat, 775
Syntheses and Crystallographic Characterizations of Trinuclear (μ_3 -O) Zirconium Complexes, 823
Scission of Ethyne into Two Methylidyne Ligands: C \equiv C *vs.* C-H Bond Activation, 899
Syntheses of Tetranuclear Tungsten Sulphide Clusters with Raft-type and Tetrahedral Core Structures, 1057
Polyoxometalate Clusters as Building Blocks: Preparation and Structure of Bis(hexamolybdate) Complexes Covalently Bridged by Organodiiimido Ligands, 1165
Oligomerisation of Phenylacetylene at a Polynuclear Site; the Molecular Structure of [Ru₆C(CO)₁₂(μ_2 -CO)(η^5 -C₅H₅Ph)₂(μ_3 -CPh)], 1263
Corrigendum: Scission of Ethyne into Two Methylidyne Ligands: C \equiv C *vs.* C-H Bond Activation, 1309
Benzotriazole-mediated Assembly of the Discrete Asymmetric Pentanuclear Nickel Complex [Ni₅(OH)(bta)₅(acac)₄(H₂O)₄] (Hbta = benzotriazole, Hacac = pentane-2,4-dione), 1347
The Methylzinc Hydroborate Derivative [(MeZn)₂B₃H₇]₂: Synthesis, Crystal Structure and Vibrational Spectra of an Unprecedented Cluster Compound, 1363
C-H Bond Activation of Simple Alkenes with Cyclopentadienylcobalt Fragments: Preparation and Structure of Tri- and Tetra-cobalt μ -Cycloalkyne Cluster Complexes, 1447
Synthesis and Structure of Mo₃Te₁₀I₁₀ containing TeI₃⁻ Ligands coordinated to a Triangular Cluster Fragment [Mo₃(μ_3 -Te)(μ_2 -Te₂)₃]⁴⁺, 1559
Site-specific Ligand Variation in Manganese-Oxide Cubane Complexes, and Unusual Magnetic Relaxation Effects in [Mn₄O₃X(OAc)₃(dbm)₃] (X = N₃⁻, OCN⁻; Hdbm = dibenzoylmethane), 1591
Synthesis and Reactions of Functionalised Gold Nanoparticles, 1655
Characterisation of Ruthenium Clusters carrying Facial Arene Ligands using Ultraviolet Laser Desorption Mass Spectrometry: Aggregation of Gas-phase Monocharged Anionic Clusters from Neutral Molecular Clusters, 1689
Associative Substitution Mechanisms of Clusters: the Relationship between Sites of Nucleophilic Attack and Leaving Group Dissociation, 1905
Synthesis, Structure and Preliminary Magnetic Studies of a Heptadecanuclear Iron Complex, 1987
Coordination of SnCl₂ and GeCl₂ onto a One-dimensional Platinum Network: Synthesis and Structural Characterization of the [PPh₄]₂[Pt₈(ECl₂)₄(CO)₁₀] (E = Sn, Ge) Complexes, 2055

Polyacrylate Resins bearing the Transition Metal Cluster Unit $\text{Co}_3(\text{CO})_9\text{C}$, 2117
 Novel Asymmetric Pentadentate *N*-(*X*-Substituted Salicylidene)-*N'*,*N'*-bis(2-hydroxyethyl)ethylenediamine Ligands afford the First Hexanuclear Manganese(III) Complexes, 2155
 Synthesis and X-Ray Crystal Structure of the First Pentanuclear Silver(I) Cluster of the Polyaza Cryptands, 2373
 Tetrahedral Platinum Carbonyl Clusters, 2381
 Macropolyhedral Boron-containing Cluster Chemistry. The Eighteen-vertex Monocarborane $[(\text{Me}_3\text{CNH}_2)\text{CB}_{17}\text{H}_{18}(\text{CN})]_n$, 2407
 Tetranuclear Vanadium(III) Carboxylate Chemistry, and a New Example of a Metal Butterfly Complex exhibiting Spin Frustration: Structure and Properties of $[\text{V}_4\text{O}_2(\text{O}_2\text{CEt})_7(\text{bpy})_2](\text{ClO}_4)$, 2517
 Electro spray Mass Spectrometry of Neutral Metal Carbonyl Complexes using Silver(I) Ions for Ionisation, 2531
 Preparation of Zeolites incorporating Molybdenum Sulfide Clusters with High C_2 Hydrocarbon Selectivity in $\text{CO}-\text{H}_2$ Reactions, 2533

COBALT

First Cobalt(I)-catalysed Heterocyclotrimerization of Ethyne with Nitriles to Pyridines in Water under Mild Conditions, 179
 A Novel Layered Aluminium Phosphate $[\text{Co}(\text{en})_3\text{Al}_3\text{P}_4\text{O}_{16}\cdot 3\text{H}_2\text{O}]$ Assembled about a Chiral Metal Complex, 425
 Efficient Dimethyl Malonate Synthesis by Methoxycarbonylation of Dichloromethane catalysed by Electrogenerated $[\text{Co}(\text{CO})_3\text{PBU}_3]^-$ Species, 847
 Electrochemical Generation of a New Type of Dioxygen Carrier Complex. Reversible Fixation of Dioxygen by the Highly Electron-deficient Two-electron Oxidized Derivative of a Dicobalt Face-to-face Diporphyrin, 1441
 C-H Bond Activation of Simple Alkenes with Cyclopentadienylcobalt Fragments: Preparation and Structure of Tri- and Tetra-cobalt μ -Cycloalkyne Cluster Complexes, 1447
 A Novel Open-framework Sodium Zincophosphate with Isomorphous Cobalt(II) Substitution, 1681
 Towards Eneidyne Libraries: Cyclic Eneidyne *via* an Intramolecular Carbenoid Coupling Protocol, 1791
 A Powder Neutron Diffraction Determination of the Structure of $\text{Sr}_6\text{Co}_5\text{O}_{15}$, Formerly Described as the Low-temperature Hexagonal Form of SrCoO_3-x , 1953
 The Formation of Nanoparticulate Cobalt Carbide, Co_2C , Encapsulated in an Amorphous Siliceous Matrix, 2065
 Polyacrylate Resins bearing the Transition Metal Cluster Unit $\text{Co}_3(\text{CO})_9\text{C}$, 2117
 Synthesis of CoVPI-5 with Bifunctional Catalytic Activity, 2255
 Probing the Onset of Crystallization of a Microporous Catalyst by Combined X-ray Absorption Spectroscopy and X-ray Diffraction, 2549

COBALTOCENE

Spectral and Electrochemical Anion Sensing by a Novel 5,10,15,20-Tetrakis(*R*-substituted) Porphyrin Receptor $[\text{R} = \text{C}_6\text{H}_4\text{NHC}(\text{O})-\text{C}_5\text{H}_4\text{CoC}_5\text{H}_5^+ \text{PF}_6^-]$, 1187
 Evidence for the Chemical Nature and Ordering of Cobaltocene Intercalated in CdPS_3 using Single Crystal Solid State ^2H NMR Spectroscopy, 1657

COBALTOCENIUM

Solvent-free Synthesis of Clathrasils using Metal-Organic Complexes as Structure-directing Agents, 2559

COBALTOLACTONE

Synthesis and Reactivity of Novel π -Allylcyclopentadienyl Cobaltolactone Complexes, 2051

COBALT-SALEN

Ambient Oxygen Activating Water Soluble Cobalt-Salen Complex for DNA Cleavage, 2489

COELENTERAZINE

Chemiluminescent Properties of Coelenterazine Analogues Possessing an Adamantyl Group, 1335

COLLETOTRICHUM GLOEOSPOROIDES

Reduction of Carboxylates to Alkanols catalysed by *Colletotrichum gloeosporoides*, 439

COLLOID

Ligand Stabilized Nickel Colloids, 31
 Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 447
 Novel Preparation of Metal-supported Catalysts by Colloidal Microparticles in a Water-in-oil Microemulsion; Catalytic Hydrogenation of Carbon Dioxide, 763
Corrigendum: Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 1195
 On the Production of an Aqueous Colloidal Solution of Fullerenes, 1281
 Enhanced Photopolymerization of Diacetylene in Colloidal Gold Solution, 1525
 Characterization of Montmorillonite Colloids containing a Clay-adsorbed Bipolar Poly(pyridyl)osmium(II) Complex, 1821
 Discrete Colloidal Crystals of Titanium Silicalite-1, 2259

COMPLEMENTARY HYDROGEN BONDING

Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (Hpyhy) and Complexes of pyhy with Nickel(II) and Copper(II), 1521

COMPLEXATION

Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate, 417
Corrigendum: Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate, 1309

COMPOSITE

Preparation and Characterisation of Mesoporous, High Surface Area Zirconium(IV) Oxides, 2083

COMPUTER SIMULATION

Defects and Holes in the Mercury-based Oxide Superconductors: Relevance to High T_c Behaviour, 1595
 Investigation of the Influence of the Cations to Normal Modes of Y Zeolites: Vibrational Studies and Computer Simulations, 2481

CONCANAVALIN A

Layer-by-layer Architectures of Concanavalin A by means of Electrostatic and Biospecific Interactions, 2313

CONCERTED $\text{S}_{\text{N}}2'$

Evidence for a Concerted $\text{S}_{\text{N}}2'$ Mechanism in the Gas-Phase Acid-induced Nucleophilic Substitutions on Allylic Substrates, 547

CONDENSATION

Synthesis of Sugar-containing Polymers by Self-condensation with Diboric Acid, 153

CONDUCTING POLYMER

A Bio-electronic Interface using Functionalised Conducting Poly(pyrroles), 697
 Poly[*trans*-bis(3,4-ethylenedioxythiophene)vinylene]: A Low Band-gap Polymer with Rapid Redox Switching Capabilities between Conducting Transmissive and Insulating Absorptive States, 703
 New Precursors and Polymerization Route for the Preparation of High Molecular Mass Poly(3,4-Dialkoxy-2,5-Thienylenevinylene)s: Low Band Gap Conductive Polymers, 1451
 Functionalisation and Characterisation of Novel Conducting Polymer Interfaces, 1471

CONDUCTIVITY

The New Synthetic Metals of $\text{M}(\text{dmise})_2$: $[\text{Me}_3\text{HN}][\text{Ni}(\text{dmise})_2]_2$ and $(\text{EDT}-\text{TTF})[\text{Ni}(\text{dmise})_2]$, 351

Thienoquinonoid-extended Analogues of Bis(alkylenedithio)-tetrathiafulvalenes and their Conductive Complexes, 821
 Mixed-valence Perchlorotriphenylmethyl Radical Ion Polymers. A Ten Orders of Magnitude Increase in Conductivity, 895
 Two Tetrathiafulvalene Salts of a New Thiophene-functionalised Ferracarborane: Electrical Conductivity as a Function of Crystal Composition, 997

CONDUCTOR

Novel Molecular Conductors, $(\text{DIETS})_4\text{M}(\text{CN})_4$ ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$): Highly Reticulated Donor...Anion Contacts by $-\text{I}\cdots\text{NC}-$ Interaction, 1667

CONFIGURATION

Optically Active Diazacyclopophosphamides: Novel Efficient Reagents for the Determination of the Absolute Configuration of Amines and Alcohols, 435
 Complete Retention of Configuration in the Nucleophilic Substitution of 1-Phenylbenzo[*b*]thiophenium Salts by Alkoxide Anions, 1375

CONFORMATION

Conformational Effects on Electrical and Spectroscopic Properties of Bi-, Ter-, and Poly-thiophenes, 881
 Conformational Flexibility of Dihydropyrimidinone and Tetrahydropyrimidine-2,4-dione Rings in DNA Bases, 1539
 Metal-induced Conformational Changes in Calix[*n*]arenes can Change the Exchange Interaction between $\text{N}-\text{O}^\cdot$ Radicals, 2121

CONFORMATIONAL LOCK

Contrasting Behaviour of Related Palladium Complex-derived Resolving Agents. 8-H Conformational Locking of the 1-Naphthyl Side-Chain, 395

CONJUGATED POLYMER

New Rigid Backbone Conjugated Organic Polymers with Large Fluorescence Quantum Yields, 1433
 Poly(4,4'-dialkyl-2,2'-bithiazole-5,5'-diyl). New Electron-withdrawing π -Conjugated Polymers Consisting of Recurring Five-membered Rings, 1613

COORDINATION GEOMETRY

Geometric Control of Manganese Redox State, 1035

COORDINATION-SELECTIVE CLEAVAGE

Preparation of a Diethynyl Hypervalent Silicon Monomer by Coordination-selective Cleavage: Structure and Polymerization to give Novel Polycarbosilanes containing Main-chain Hexacoordinate Silicon, 725

COORDINATIVE UNSATURATION

Novel Iridium Complexes of an Azine Diphosphine: Very Reactive Iridium(I) Species formed by a Unique Isomerisation of an Iridium(III) Hydride. A New Method of creating Coordinative Unsaturation, 865

COPE

Tandem Wittig Reaction and Cope Rearrangement of 2-Allyl-1,2-dihydroindol-3-ones to 3-Indole Acetates, 381

COPOLYMER

The Tuning of Conjugation by Recipe: the Synthesis and Properties of Random Head-to-tail Poly(3-alkylthiophene) Copolymers, 135

COPOLYMERISATION

Platinum- or Palladium-catalysed Ring-opening Homo- and Copolymerization of Silicon- and Germanium-bridged [1]-Ferrocenophanes, 2263

Efficient Spontaneous 1 : 1 Copolymerization of Bis(ynamine)s with Carbon Dioxide to Poly(4-pyrone)s, 2417

COPPER

A Novel, Highly Copper(II)-selective Chelating Hydrophilic Ion Exchanger based on Imidazole modified Poly(glycidyl methacrylate), 147

Effects of Particle Size Morphology on Ultrasonic-induced Cavitation Mechanisms in Heterogeneous Systems, 201

Functionalized Azo Dyes by Direct Ullmann Coupling, 245

Total Oxidation of Chlorinated Hydrocarbons by Copper and Chlorine based Catalysts, 365

Copper-Dioxygen Reactivity Involved in the Formation of μ -oxo [(por)Fe^{III}-O-Cu^{II}L]⁺ Heterodinuclear Complexes (por = porphyrinate, L = tetradentate ligand), and Novel Synthesis of Square-Planar Fe^{II}(por) Species, 499

Corrigendum: Intramolecular Generation and Rearrangement of Ammonium Ylides from Copper Carbenoids: a General Method for the Synthesis of Cyclic Amines, 503

Novel Asymmetric Tripodal Imidazole-containing Ligands forming Dinuclear Copper Compounds through Ligand Sharing, 517

Molecular Modelling for Copper(II) Centres, 573

Self-assembly of Rigid-rack Multimetallic Complexes of Rotaxane-type, 715

A Copper(I)-complexed Rotaxane with Two Fullerene Stoppers, 781

Corrigendum: A Novel, Highly Copper(II)-selective Chelating Hydrophilic Ion Exchanger based on Imidazole modified Poly(glycidyl methacrylate), 911

Monomeric Bis(η^2 -alkyne) Complexes of (η^1 -Mesityl)copper(I) and (η^1 -Mesityl)silver(I) Obtained from a Bis(alkynyl)titanocene; X-Ray Structure of [(η^5 -C₅H₅SiMe₃)₂Ti(C \equiv CSiMe₃)₂]Cu(η^1 -Mes) (Mes = C₆H₂Me₃-2,4,6), 925

Simulation Study of Copper(I) and Copper(II) Species in ZSM-5 Zeolite, 945

Novel Copper(II)-mediated Photocyclization of Methoxynaphthyl Analogues of Chalcone: Unusual Electron Transfer from Excited Vinyl Arenes, 957

An *N*-Ligated Trinuclear Copper(I) Cation Structurally Reminiscent of the Active Site of Ascorbate Oxidase, 959

A Hexanuclear Copper Arylselenolate: Synthesis, Structure and Proposal for its Rearrangement, 1011

Metal-Ammonium Cooperativity in Phosphodiester Hydrolysis, 1205

Synthesis and Crystal Structure of a Dinuclear Copper(II) Complex with a Novel Tetrapyrrolyl Macrocyclic, 1365

Catalytic Formation of Aziridines from Imines and Diazoacetate, 1401

Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (Hpyhy) and Complexes of pyhy with Nickel(II) and Copper(II), 1521

Copper(II) and Zinc(II) Macrocyclic Complexes with High Efficiency in Fixing CO₂. Crystal Structures of {[ZnL]₃(μ_3 -CO₃)}·(ClO₄)₄ and {[CuL]₃(μ_3 -CO₃)}·(ClO₄)₄ (L = [15]aneN₃O₂), 1555

A Novel Tetranuclear Copper(II) Complex with Three Different Types of Azide, exhibiting Weak Antiferromagnetic Exchange, 1907

Formation of Interwoven or Partially Interwoven Metallomacrocyclic Networks in Copper(II) or Zinc(II) Complexes with *N,N'*-*p*-phenylenedimethylenebis(pyridin-4-one), 1975

The Reaction of Methyl (*E*)-4,5-Epoxy-pent-2-enoate with Arylcopper: the Unique Role of Boron Trifluoride in determining Regioselectivity, 2001

Construction of a Phosphane-based Metallo-synthon Suitable for the Selective Formation of a Tetranuclear Ru₂-Cu₂ Macrocyclic, 2033

Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu-Mg-Al Hydrotalcite, 2057

Directed Metallation of Adenine-N³ via Nucleobase-Ligand Conjugation, 2285

Molecular Recognition of the Imidazole Residue by a Dicopper(II) Complex with a Bisdien Macrocyclic bearing Two Pendant Arms, 2439

Copper-promoted Intramolecular Selenium Transfer from a P=Se Group to a P-CH₂-P Methylene Carbon producing an Unusual Methaneselone Ligand, 2443

COPPER NITRATE

Induction of Liquid Crystalline Phases in *N*-alkylated Poly-(ethyleneimine)s by Transition Metal Complexation, 1615

COS

COS Trapping by Palladium Pyrazolates: Addition vs. Clathration, 1955

COSYNTHEASE

Stereochemical Studies on the Proposed Spiro Intermediate for the Biosynthesis of the Natural Porphyrins: Determination by a Novel X-Ray Method of the Absolute Configuration of the Spirolactam which Inhibits Cosynthetase, 1789

COUPLING

Indium-mediated Coupling of Aldehydes with Prop-2-ynyl Bromides in Aqueous Media, 1003

The Parallel between Phenyl-initiated C-C Coupling Reactions in Dirhodium Complexes and those Catalysed by Rhodium Particles, 1089

Reactivity of Heterobimetallic Alkoxy-silyl and Siloxyl Complexes in the Dehydrogenative Coupling of Stannanes, 1455

CROSS COUPLING

Synthesis of Ketones from Iodoalkenes, Carbon Monoxide and 9-Alkyl-9-borabicyclo[3.3.1]nonane Derivatives via a Radical Cyclization and Palladium-Catalysed Carbonylative Cross-coupling Sequence, 295

Palladium-catalysed Tandem Cyclisation-Cross-coupling Reaction with Triethyl-(1-methylindol-2-yl)borate, 409

A Novel and Efficient Route to (*E*)-Alk-1-enyl Boronic Acid Derivatives from (*E*)-1-(Trimethylsilyl)alk-1-enes and a Formal Suzuki-Miyaura Cross-coupling Reaction starting with Vinylsilanes, 2523

CROTONATE

Investigation of the Stereochemistry of the Dehydration of the Diketide, (3*R*)-3-Hydroxybutyrate to Crotonate, in the First Chain Extension Cycle on the Aspyrone Polyketide Synthase in Intact Cells of *Aspergillus melleus*, 863

CROTYL AMINE

Aza-[2,3]-Wittig Sigmatropic Rearrangement of Crotyl Amines, 1835

CROWN ETHER

Large Activation of Serine Proteases by Pretreatment with Crown Ethers, 255

The First Evidence for Triple Cation Binding by Multi-ring Macrocyclic Polyethers: An Electrospray Ionization Mass Spectral Study, 641

Synthesis and Spectroscopy of New Iron(II) Complexes of 4,7-Bis(aza-crown ether)-phenanthrolines with Unusual Complexation Properties, 687

EMT Zeolite Synthesis: Na⁺B vs. OH⁻ Effect, 951

Synthesis and Molecular Structure of [K(18-crown-6)][(CO)₄FePPh₂CS₂], 1049

A Diboronic Acid 'Glucose Cleft' and a Biscrown Ether 'Metal Sandwich' are Allosterically Coupled, 1483

A Novel Cation 'AND' Anion Recognition Host Having Pyrido[1',2':1,2]imidazo[4,5-*b*]pyrazine as the Fluorophore, 1491

Synthesis and X-Ray Crystal Structure of [H₅O₂⁺-21-Crown-7][WCl₅⁻], a Complex in which the 21-Crown-7 Molecule adopts a Rigid, Bowl-like Conformation, 1551

CROWN THIOETHER

Crown Thioether Chemistry: Rhenium(II) Bis(1,4,7-Trithiacyclononane), the First Homoleptic Thioether Complex of Rhenium, 161

Doubly Helical, Chiral Crown Thioether fully preorganized for Planar Coordination, 935

CRYPTAND 222

Reaction of Mercuric Iodide with Cryptand 222. Crystallographic Evidence for the Formation of Finite Octaiodotrimercurate(II) Ions [Hg₃I₈]²⁻, 451

Catalytic Hydrolysis of Phosphate Monoesters by Lanthanide(III) Cryptate (2.2.1) Complexes, 575

Synthesis and Crystal Structure of a New Large Cryptand encapsulating a Benzene Molecule, 735

Geometric Control of Manganese Redox State, 1035

Simultaneous Binding of Boron and Ammonium Cation by a Pseudocryptand: Synthesis, X-Ray Analysis and Solution Studies by NMR Spectroscopy, 1505

Synthesis and X-Ray Crystal Structure of the First Pentanuclear Silver(I) Cluster of the Polyaiza Cryptands, 2373

CRYPTATE

Kinetically Stable Lanthanide Cryptates, 903

Caged Anions: Perchlorate and Perfluoroanion Cryptates, 1649

CRYPTOMELANE

Sol-Gel Synthesis of Cryptomelane, an Octahedral Molecular Sieve, 1367

CRYSTAL CORRELATION

Lengthening of the N-H Bond in N-H...N Hydrogen Bonds. Preliminary Structural Data and Implications of the Bond Valence Concept, 1331

CRYSTAL ENGINEERING

Topological Equivalences between Organic and Inorganic Crystal Structures: 1,3,5,7-Tetrahydroxyadamantane and Caesium Chloride, 339

Hexagonal Supramolecular Networks in the Crystal Structure of the 1 : 1 Molecular Complex Trimethylisocyanurate-1,3,5-Trinitrobenzene, 341

- Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (Hpyhy) and Complexes of pyhy with Nickel(II) and Copper(II), 1521
- (4-Dimethylaminopyridine)₅(benzoic acid)₃(H₂O)₁₀, a Two-dimensional Clathrate Hydrate, 1705
- Triple Interpenetration in [Ag(4,4'-bipyridine)][NO₃], a Cationic Polymer with a Three-dimensional Motif Generated by Self-assembly of 'T-shaped' Building Blocks, 2413
- CRYSTAL STRUCTURE**
- Synthesis of Alkylidene phosphiranes by Extrusion of Nitrogen from 3-Alkylidene-4,5-dihydro-3*H*-1,2,4-diazaphospholes, 25
- Photoinduced Intramolecular Charge Transfer in 4-Donor, 4'-Acceptor Substituted Dimethyldiphenylsilanes, 35
- Polyfunctional Ligands: Comparative Oxidative Coupling of [E-(PPh₂)₂]⁻ (E = CH, N) with Iodine, 37
- An Orthometallated Cyclopentadienyl Phosphine Bridge in a New Type of Heterobimetallic Complex: [(η⁵-C₅H₅)(η⁵-C₅H₄)Mo{o-C₆H₄P(Ph)Cr(CO)₅}]X (X = Cl, I), 45
- Authentication of a Sodium Primary Phosphide: Synthesis and Crystal Structure of [Na{PH(C₆H₁₁)}(pmdeta)]₂ (pmdeta = *N,N,N',N',N''*-pentamethyldiethylenetriamine), 47
- A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylidene Oxide, 81
- Synthesis and Characterisation of a Novel Macrocyclic Vinylsiloxane-based Tris(alkene)nickel(0) Complex, 87
- Cooperative C≡C-H...C≡C-H Interactions: Crystal Structure of *dl*-Prop-2-ynylglycine and Database Study of Terminal Alkynes, 95
- A Zigzag Chain Structure of a 3-Thiapentane-1,5-dithiolato Vanadium Complex linked by Lithium Ions, 111
- Synthesis and Structure of the Cluster [triangulo-AgHg₂(μ-dppm)]₃⁺ [dppm = bis(diphenylphosphino)methane], 131
- Synthesis and X-Ray Crystallographic Structure of the Right-hand Hemisphere of Halicholactone and Neohalicholactone, 139
- The Synthesis and Characterisation of Ru₆(μ₃-H)(μ₄-η²-CO)₂(CO)₁₃(η⁵-C₅H₄Me)—an Example of Cluster Mediated Ring Contraction, 159
- Crown Thioether Chemistry: Rhenium(II) Bis(1,4,7-Trithiacyclononane), the First Homoleptic Thioether Complex of Rhenium, 161
- Coordination and Oxidation of Vanadium(II) by 1,2-Bis(2-sulfidophenylsulfanyl)ethane(2-)(S₄): the Structures of [V(S₄-tmeda)]₂, the First Example of Vanadium(II)-Sulfide Coordination, and of [V₃(μ-O)₂(S₂)₄(tmeda)]₂ (S₂ = 1,2-benzenedithiolate(2-)), 165
- Synthesis and Crystal Structure of [K(C₁₂H₂₄O₆)] [U(η-C₇H₇)₂], The First Cycloheptatrienyl Sandwich Compound, 183
- Synthesis and Molecular Structure of the Novel Triosmium Bis(benzene) Cluster [Os₃(CO)₆(η⁶-C₆H₆)(μ₃:η²:η²:η²-C₆H₆)], 189
- Cleavage of Both Alkyl C-H Bonds and Aryl C-F Bonds and Concomitant C-C Bond Formation in a Pentamethylcyclopentadienylrhodium Phosphine Complex: X-Ray Structure of [(η⁵-C₅Me₅)[CH₂C₆F₄P(C₆F₅)CH₂]₂-1,3]RhCl] + BF₄⁻, 191
- Cis*-[RhI(CO)(Ph₂PCH₂P(S)Ph₂): A New Catalyst for Methanol Carbonylation, 197
- Syntheses of Sugar-derived Heterocyclic Lactams, 211
- A Li₂Br₂ Ring Trapped by *tert*-Butylaminotin(II)bromide and *tert*-Butylamine as found by X-Ray Crystallography, 213
- Synthesis and Crystal Structure of the First 6a-Thiathiophthen Metal Complex [Mo(CO)₃PPh₂]₂(μ-C₅H₂S₃), 223
- First Structural Characterization of Silicon-Arsenic and Silicon-Phosphorus Multiple Bonds in Silylated Silylidene-arsanes and -phosphanes; X-Ray Structure of a Tellura-arsasilirane Derivative, 253
- 1-Methyl-1-phenylphosphiranium Triflate: Synthesis, Structure and Reactivity, 257
- Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 259
- Unusual Reactivity of a Luminescent Bis-μ-Sulfido Platinum(II) Dimer with Methylene Chloride. X-Ray Structural Characterization of [Pt₂(μ-S)₂(dppy)₄] and [Pt(dppy)₂(S₂CH₂)] (dppy = 2-diphenylphosphinopyridine), 267
- Tetrabutylammonium Salts of Carbazole and Dibenzazepine: Synthesis, Crystal Structures and Use in Anionic Polymerization, 275
- A Crystallographic Map of Chiral Recognition in π Complexes of Aromatic Aldehydes and a Chiral Transition Metal Lewis Acid: Enantioface Binding Selectivities in Solution Correlate to Distances between Metal and Carbon Stereocentres in the Solid State, 279
- Synthesis and X-Ray Crystal Structure of (1*S*,3*R*,4*S*,1'*S*)-4-Methyl-3-triphenylphosphonium-1-[1'-methyl(methylphenyl)]-2-hydro-2-borazetidinium Bromide—the First Example of a Four-membered C-B-N-C Heterocycle, 287
- Corrigendum*: Selective Adsorption in Gold-Thiol Monolayers of Calix-4-resorcinarenes, 291
- 2,4-Di-*tert*-butyl-6-piperidinophenyl as a Sterically and Electronically Stabilizing Group and X-Ray Analysis of the Corresponding Diselenoxophosphorane, 297
- A Tetrathiol Bowl-shaped Cavitand and a Derived Carceplex, 307
- Synthesis and X-Ray Crystal Structure of a Novel Tetrathiafulvalene Dimethyl[2,4-dioxo(1*H*,3*H*)pyrimido]tetrathiafulvalene, able to form Intermolecular Hydrogen Bonds of Nucleic Acid Base-pair Type, 325
- From Butadiynyl (-C≡C-C≡CR) Ligands to Alkylidyne-Carbides: Synthesis and Characterisation of the Unusual Hexanuclear Ruthenium Carbido Clusters [Ru₆(CO)₁₃(μ-CO)₂(μ-PPh₂)(μ₅-C)-(μ₃-C-C≡CR)] (R = Bu^t, Ph), 327
- Stable Palladium(0) and Palladium(II) Complexes Containing a New, Multifunctional and Semi-labile Phosphorus-Bisnitrogen Ligand, 331
- First Volatile Alkylgallyl Manganese Complexes; Structure of [(CO)₅Mn]₂Ga[(CH₂)₃NMe₂]. Molecular Control of the Stoichiometry of Mn-Ga Thin Films Grown by Low-pressure MOCVD, 337
- Topological Equivalences between Organic and Inorganic Crystal Structures: 1,3,5,7-Tetrahydroadamantane and Caesium Chloride, 339
- Hexagonal Supramolecular Networks in the Crystal Structure of the 1:1 Molecular Complex Trimethylisocyanurate-1,3,5-Trinitrobenzene, 341
- The New Synthetic Metals of M(dmise)₂: [Me₃HN][Ni(dmise)₂]₂ and (EDT-TTF)[Ni(dmise)₂], 351
- Hydrothiation of Prop-2-ynyltriphenylphosphonium Bromide: Synthesis, Crystal Structure and Reactions of [RuBr-(CH=CHCH₂PPh₃)(CO)(PPh₃)₂PF₆], 369
- New Neutral Nickel Dithiolene Complexes derived from 1,3-Dialkylimidazolidine-2,4,5-trithione, showing Remarkable Near-IR Absorption, 371
- [Vanadium(salen)benzilate]—A Novel Non-oxo Vanadium(IV) Complex, 377
- Contrasting Behaviour of Related Palladium Complex-derived Resolving Agents. 8-H Conformational Locking of the 1-Naphthyl Side-Chain, 395
- Novel Bicyclic Organoboranes *via* 1,1-Organoboration, 399
- A Conjugate Addition—Radical Cyclisation Approach to Sesquiterpene Phenols, 403
- Approaches to the Assembly of the Antifungal Agent FR-900848: Studies on the Synthesis of C₂ Symmetric Tetracyclopropane Derivatives and an X-Ray Crystallographic Study of (1*R*,3*S*,4*S*,6*R*)-Bicyclopropyl-1,6-di-{2-[(4*R*,5*R*)-di-(isopropoxyloxycarbonyl)-1,3-dioxolane]}, 407
- An Alkali Metal Phenoxide with an Unusual Dimeric Crystal Structure: [Na(OC₆H₃Bu^t-2,6)(μ-Me₂SO)(Me₂SO)]₂, 421
- A Novel Layered Aluminium Phosphate [Co(en)₃Al₃F₄O₁₆·3H₂O] Assembled about a Chiral Metal Complex, 425
- Synthesis of [AuFe₂(CO)₈]₃⁻ and [Au₄Fe₄(CO)₁₆]₄⁻: X-Ray Structure of the [Au₄Fe₄(CO)₁₆]₄⁻ Cluster Anion in its [NEt₄]⁺ salt, 433
- Formation of a Chelating Bidentate Nitrosoalkane Complex of Ruthenium(II) through Reaction of H₂O with a High-valent Bis(imido)ruthenium Intermediate and X-Ray Crystal Structure of [Ru(bpy)₂(ONCMe₂CMe₂NO)] [ClO₄]₂·Me₂CO, 441
- Reaction of Mercuric Iodide with Cryptand 222. Crystallographic Evidence for the Formation of Finite Octaiodotrimercurate(II) Ions [Hg₃I₈]₂⁻, 451
- Functionalisation of [Mo₆O₁₉]²⁻ with Aromatic Amines: Synthesis and Structure of a Hexamolybdate Building Block with Linear Difunctionality, 455
- The Palladium(II) Coordination Chemistry of Ferrocenylphosphinobipyridines: a Novel *trans*-Chelating Ligand System, 459
- Heterolytic C-O Cleavage in Arylethers Activated by [Fe(η⁵-C₅H₅)⁺], 463
- Thiophene *S*-Oxides: Convenient Preparation, First Complete Structural Characterization and Unexpected Dimerization of One of Them, 2,5-Diphenylthiophene-1-oxide, 473
- A Method of Making Os-R₂ Bonds: Chemistry and Structure of Meridional [Os{S(CH₂Ph)₂Br₃}], 477
- Electron Distribution in *tert*-Butyl Phosphoethyne Bu^tC≡P, 505
- Interaction of a Luminescent Platinum(II) Complex of Substituted 2,2'-Bipyridine with DNA. Spectroscopic and Photophysical Studies, 509
- Isostructural Replacement of an N-H...O by a C-H...O Hydrogen Bond in Complex Stabilisation: Crystal Structures of β-Cyclodextrin Complexed with Diethanolamine and with Pentane-1,5-diol, 511
- New Routes To Molybdenum and Tungsten Carbyne Complexes [M(CO)₂(≡CPh)(η-C₅H₄R)] (M = Mo or W, R = SnPh₃; M = W, R = H), 515
- Air Oxidation of a Manganese(III) Thioether Chelate affords the First Manganese(III) Dihydrosalen Complex with a Pendant Sulfoxide Ligand, 535

- Synthesis and Molecular Structure of Tetraruthenium Clusters carrying Facial Arene Ligands, 537
- A One-dimensional Germanium Sulfide Polymer Akin to the Ionosilicates: Synthesis and Structural Characterization of DPA-GS-8, $\text{Ge}_4\text{S}_9(\text{C}_3\text{H}_7)_2\text{NH}_2(\text{C}_3\text{H}_7)\text{NH}_2(\text{C}_2\text{H}_5)$, 541
- Synthesis of Organouranium(v) Compounds by Oxidation of Neutral Tetravalent Precursors. Crystal Structures of $[\text{U}(\eta\text{-C}_5\text{Me}_5)(\text{NMe}_2)_3(\text{OC}_4\text{H}_8)][\text{BPh}_4]$ and $[\text{U}(\eta\text{-C}_5\text{Me}_5)_2(\text{NEt}_2)_2][\text{BPh}_4]$, the First Cationic Uranium(v) Complexes, 543
- Measurement of an Exceedingly Long Metal Carbonyl C–O Bond by Single Crystal X-Ray Diffraction in $\text{Ru}_8(\mu\text{-H})_2(\mu_6\text{-}\eta^2\text{-CO})(\text{CO})_{19}(\eta^6\text{-C}_{16}\text{H}_{16})$, 555
- Preparation and Properties of Bis[5-(6-methyl-1,4-dithiafulven-6-yl)-2-thienyl]methanes affording Near-infrared Absorbing Cations by Oxidation, 557
- Synthesis and Molecular Structure of a Complex Containing all three Intermediates of the Carbene Synthesis from Coordinated Isocyanides, 569
- Synthesis and Structural Characterization of the First Lanthanide Tris(phosphido) Complex: $\text{Tm}[\text{P}(\text{SiMe}_3)_2]_3(\text{thf})_2$, 577
- Synthesis, Structure and Electrochemistry of a Paramagnetic (1,4-Diazabutadiene)Thorium Complex, 579
- The Formation and Structural Characterisation of the *transoid*- $\eta^4(5e)$ -Butadienyl Ligand; Evidence for a 'Bent' Rhenium–Carbon Bond, 593
- Corrigendum*: Synthesis and Structure of $\text{Rb}[\text{Cd}\{\text{Ag}(\text{CN}_2)_3\}]$ Containing Three Independent, Interpenetrating α -Polonium-related Nets, 605
- Synthesis and Structural Studies on *p*-*tert*-Butyl-1,3-dihydroxy-2,4-disulfanylcalix[4]arene and its Mercury Complex, 609
- The Preparation and Crystal Structure of a Salt with the $[\{\text{VO}_2(\text{O}_2\text{CMe})\}_4(\text{NO}_3)]$ Monoanion, 627
- The First X-Ray Crystal Structure of an *O*-Alkyl Aminosulfoxonium Salt: Conclusive Evidence for *O*-Alkylation of Sulfinamides and Planarity of Nitrogen, 647
- Approaches to the Assembly of the Antifungal Agent FR-900848: Determination of the Geometry of the Dicyclopolyethylene Unit and an X-Ray Crystallographic Study of (1*R*,2*S*)-1,2-Bis[(1*S*,2*S*)-2-methylcyclopropyl]-1,2-ethanediyl 3,5-Dinitrobenzoate, 649
- Arylalkane Oxidation by Dioxo[4,4'-di(*tert*-butyl)-2,2'-bipyridyl]-molybdenum(vi) Complexes, 655
- The First Solid State Paramagnetic 1,2,3,5-Dithiadiazolyl Radical; X-Ray Crystal Structure of $[\text{p-NCC}_6\text{F}_4\text{CNSSN}]$, 679
- First Resolution of a Linear Chelating Tetra(tertiary phosphine): Resolution and Absolute Configurations of Enantiomers of (*R**,*R**)-(\pm)-1,1,4,7,10,10-Hexaphenyl-1,4,7,10-tetraphosphadecane, 693
- Self-assembly of Homochiral Double Helix and Side-by-side Helix Conformers of a Double-stranded Disilver(i)–Tetra(tertiary phosphine) Complex, 695
- Self-assembly of Rigid-rack Multimetallic Complexes of Rotaxane-type, 715
- Crystal Structure of a Remarkably Ruffled Nonplanar Porphyrin (Pyridine)[5,10,15,20-Tetra(*tert*-butyl)porphyrinato]zinc(ii), 733
- Synthesis and Crystal Structure of a New Large Cryptand encapsulating a Benzene Molecule, 735
- Organoimido Ligands with Remote Functionality: A *p*-Pyridylimido Complex of Vanadium(v) and its Use as a Metalloligand, 737
- Total Synthesis of the Natural Gonioidiol-8-monoacetate from Cinnamyl Alcohol, 743
- Synthesis of the First Trithiocarbonatogold complex: $[\text{N}(\text{PPh}_3)_2]_2\text{-}[\text{Au}_2(\mu^2\text{-}\eta^2\text{-CS}_3)_2]$. First Crystal Structure of a $\mu^2\text{-}\eta^2$ -Bridging Trithiocarbonato Complex, 745
- Polynuclear Clusters of Fused-ring Hydrocarbons. The Synthesis and X-Ray Structure of $[\text{Os}_4\text{H}(\text{CO})_9(\mu_3\text{-}\eta^2\text{-}\eta^2\text{-}\eta^2\text{-C}_{13}\text{H}_{15})]$ ($\text{C}_{13}\text{H}_{15}$ = 1,3-diethylindenyl), 755
- Molecular Helicity: a General Approach for Helicity Induction in a Polyheterocyclic Molecular Strand, 765
- Formation of *cisoid*- $\eta^4(5e)$ -Butadienylrhenium Complexes by Coupling of Alkene and Alkyne Ligands, 767
- The Synthesis and Characterisation of $[\text{Ru}_6\text{C}(\text{CO})_{15}(\mu_3\text{-}\eta^1\text{:}\eta^2\text{:}\eta^2\text{-C}_{16}\text{H}_{16}\text{-}\mu_2\text{-O})]$: an Intermediate in the Formation of the Carbido-cluster $[\text{Ru}_6\text{C}(\text{CO})_{14}(\mu_3\text{-}\eta^2\text{:}\eta^2\text{:}\eta^2\text{-C}_{16}\text{H}_{16})]$, 771
- Amide-based Furanocatenanes: Regioselective Template Synthesis and Crystal Structure, 777
- A Convenient *De Novo* Synthesis of Functionalised 2,4,6,8-Tetraoxaadamananes, 797
- Corrigendum*: A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylidene Oxide, 801
- Corrigendum*: Synthesis, Photophysics and Electrochemistry of a Novel Luminescent Organometallic Ruthenium(ii)/Platinum(ii) Binuclear Complex and its Ruthenium(ii)/Dichloro-Platinum(ii) and Palladium(ii) Counterparts. X-Ray Crystal Structure of $[\text{Ru}(\text{bpy})_2(\mu\text{-}2,3\text{-dpp})\text{PtCl}_2]^{2+}$ [$2,3\text{-dpp}$ = 2,3-bis(2-pyridyl)pyrazine], 801
- The Ion-pair Reinforced, Hydrogen-bonding Molecular Ribbon, 805
- [2]Catenane or not [2]Catenane?, 809
- Syntheses and Crystallographic Characterizations of Trinuclear ($\mu_3\text{-O}$) Zirconium Complexes, 823
- Formation of Novel Photoadducts from Irradiation of 5(*S*)-5-*O*-*tert*-Butyldimethylsilyloxymethylfuran-2(5*H*)-one, 825
- The Intramolecular [2 + 4] Cycloaddition Reaction of *E,E*-9-Anthrylmethylene-[1-(2,5-dimethyl-3-furylethylidene)]succinic Anhydride, 837
- Preparation, Spectra and X-Ray Structure of an Archetypal Coordination Compound $[\text{BCl}_3(\text{NH}_3)]$ and its Thermolysis, 855
- Crystallographic Characterization of Octaethylverdohaem, 873
- Lithium Anilide Complexed by pmdeta: Expectation of a Simple Monomer, but in Reality an Odd Trinuclear Composition Combining Three-, Four- and Five-coordinate Lithium, 891
- Scission of Ethyne into Two Methylidyne Ligands: $\text{C}\equiv\text{C}$ vs. C–H Bond Activation, 899
- Kinetically Stable Lanthanide Cryptates, 903
- Corrigendum*: Synthesis and X-Ray Crystal Structure of Novel *trans-syn* Thymine Photodimers: Effect of a Polyoxyethylene Spacer Chain on Photodimer Stereochemistry, 911
- Protonation of an Ylide Leads to a Unique C–H \cdots O Hydrogen-bonded Dimer: The First Synthesis, Isolation and X-Ray Structural Characterisation of a Phosphonium Aryloxy, 919
- Thiophene C–S Bond Cleavage by Rhodium and Iridium. An Unprecedented Bridging Mode of the Open $\text{C}_4\text{H}_4\text{S}$ Fragment, 921
- Monomeric Bis(η^2 -alkyne) Complexes of (η^1 -Mesityl)copper(i) and (η^1 -Mesityl)silver(i) Obtained from a Bis(alkynyl)titanocene; X-Ray Structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{Cu}(\eta^1\text{-Mes})$ (Mes = $\text{C}_6\text{H}_2\text{Me}_3\text{-}2,4,6$), 925
- The Next Homologue of the Bis(cyclopentadienyl)thallate Anion; Synthesis and X-Ray Structure Determination of $[(\eta^5\text{-C}_5\text{H}_5)\text{Ti}(\mu\text{-C}_5\text{H}_5)\text{Ti}(\eta^5\text{-C}_5\text{H}_5)]\text{-}[\text{Li}(12\text{-crown-}4)]^+\text{-thf}$, 927
- A Novel Bis(*N,N'*-dimethyl-1,4,7-triazacyclononane)calix[4]arene Ligand that forms a Ferromagnetic Dinuclear Nickel(ii) Complex with Three End-on Azide Bridging Ligands, 929
- Doubly Helical, Chiral Crown Thioether fully preorganized for Planar Coordination, 935
- An Entry to Enantiomerically Pure *cis* Decalinic Structures from Carbohydrates, 937
- Reversible Cyclisation Reactions to Form Ruthenafurans: X-Ray Crystal Structure of $[\text{Ru}(\text{CO})\{\text{C}(\text{Ph})\text{OC}(\text{OEt})=\text{CH}\}\text{Cl}(\text{PMePh})_2]$, 941
- Guest-participating Reversion of Molecular Arrangements in Asymmetric Multibilayers of Cholic Acid Inclusion Crystals, 953
- An *N*-Ligated Trinuclear Copper(i) Cation Structurally Reminiscent of the Active Site of Ascorbate Oxidase, 959
- Self-assembly of a Novel 14-Membered Metallamacrobicycle containing Two Chromium(iii) Ions as Part of the Ring Skeleton, 963
- The *cis*-Insertion of Diphenylacetylene into an *exo*-Polyhedral Boron–Hydrogen Bond of a Molybdenacarborane Cage, 985
- Two Tetraethialfulvalene Salts of a New Thiophene-functionalised Ferracarborane: Electrical Conductivity as a Function of Crystal Composition, 997
- Alkylation of $[\text{WS}_4]^{2-}$: Synthesis and Structural Characterization of the Ethylthiolatotritiotiongstate(vi) Anion, 999
- A Hexanuclear Copper Arylselenolate: Synthesis, Structure and Proposal for its Rearrangement, 1011
- Hosting Paramagnetic $[\text{Cr}(\text{C}_6\text{H}_6)_2]^+$ in an Organic Anion Framework via $\text{CH}\cdots\text{O}$ Hydrogen Bonds, 1023
- Structure of Aluminium Methylphosphonate, AlMepO- β , with Unidimensional Channels formed from Ladder-like Organic–Inorganic Polymer Chains, 1033
- Geometric Control of Manganese Redox State, 1035
- Solvent Dependent Ester Elimination Reactions in the Preparation of Mixed-metal Oxo Clusters: the Synthesis of $\text{PbSn}_2(\mu_3\text{-O})(\text{OBU}^t)_4(\text{OAc})_4$, 1041
- Synthesis and Molecular Structure of $[\text{K}(18\text{-crown-}6)]\text{-}[(\text{CO})_4\text{FePPh}_2\text{CS}_2]$, 1049
- Synthesis and Crystal Structure of $\text{Zn}(\text{O}_3\text{PC}_2\text{H}_4\text{NH}_2)$, the First Functionalized Zeolite-like Phosphonate, 1051
- Syntheses of Tetranuclear Tungsten Sulfide Clusters with Raft-type and Tetrahedral Core Structures, 1057
- Diaryl(acyloxy)sulfonylamino-spiro- λ^4 -sulfanes. Synthesis, Molecular Structure and Rearrangement, 1069
- Porphyran Analogues of Tröger's Base: Large Chiral Cavities with a Bimetallic Binding Site, 1077
- Conversion of a Molybdenum Nitride to the Amide and thence to an Oxide and Ammonia, Reactions Involving Formal 1,3-Protonic Shifts. X-Ray Structures of *trans*- $[\text{Mo}(\text{NH}_2)(\text{OH})(\text{dppe})_2][\text{OTf}]_2$ and *trans*- $[\text{MoO}(\text{OMe})(\text{dppe})_2][\text{BPh}_4]$ (dppe = $\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2$; OTf = CF_3SO_3), 1081
- Hemicarcerands with Interiors Potentially Capable of Binding Large Guests, 1085
- Oxidative Cleavage of the Te–Te Bond in η^2 -Ditellurido Complexes: Syntheses and Structures of $\text{M}(\text{PMe}_3)_4(\eta^2\text{-Te}_2)\text{H}_2$ (M = Mo, W), 1099

- Single Crystal Structure of $[(\text{Me}_2\text{N}-\text{C}_6\text{H}_4)_2\text{C}^+-\text{C}(\text{C}_6\text{H}_4-\text{NMe}_2)_2]-(\text{I}_3^-)_2$: a Twisted Tetraphenylethylene Dication with a C-C Single Bond, 1111
- Tris(dimethylamino)sulfonium, TAS, 1,1,3,5-tetrafluoro-1,3,5-trioxo- $\lambda^6,3\lambda^6,5\lambda^6,2,4,6$ -trithiatriazinate-Synthesis and Crystal Structure, 1113
- Reduction of Intermolecular Association in the Sterically Encumbered (Dichloroiodo)arene ArICl_2 [Ar = 2,6-bis(3,5-dichloro-2,4,6-trimethylphenyl)benzene], 1115
- Highly Regio- and Stereo-selective Annulation-Elimination Reactions of 1-Cycloalkenyl 3-Hydroxypropyl Ethers, 1117
- Synthesis and Structure of the Mixed Anion Sandwich Complex $\{[(\text{C}_5\text{H}_5)_9\text{Pb}]_2-[(\text{C}_5\text{H}_5)_3\text{Pb}]-[\text{Li}(12\text{-crown-4})_2]^{+2}\}$, 1141
- Determination of the Full Structure and Absolute Stereochemistry of the Antifungal Agent FR-900848: an X-Ray Crystallographic Study of (1R,3S,4R,6S,7S,9R,10S,12R)-Quatercyclopropyl-1,12-dimethanediy Di-4-bromobenzoate, 1143
- A Heteropolyanion Containing Two Linked Mixed Mo/V Pentadeca-oxometalate Clusters: Structure of $[\text{Mo}_{16}\text{V}_{14}\text{O}_{84}]^{14-}$, 1149
- A Carbene-Stannylenes Adduct with a Long Tin-Carbon Double Bond?, 1157
- A Zinc(II)-organized Molecular Receptor as a Catalyst for the Cleavage of Amino Acid Esters, 1163
- Polyoxometalate Clusters as Building Blocks: Preparation and Structure of Bis(hexamolybdate) Complexes Covalently Bridged by Organodiimido Ligands, 1165
- Synthesis and Structure of *N,N'*-Bridged Porphycene, 1173
- Crystal Structures of Silver(I) and Thallium(I) Complexes of Tris[3-(2-pyridyl)-pyrazol-1-yl]borate; Encapsulation of Either a Single Thallium(I) Ion or a Trinuclear Silver(I) Cluster by a Hexadentate Podand, 1175
- Synthesis, Photophysical Properties and DNA Binding Studies of Novel Luminescent Rhenium(I) Complexes. X-Ray Crystal Structure of $[\text{Re}(\text{dppm})(\text{CO})_3(\text{py})](\text{OTf})$, 1191
- Corrigendum*: Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 1195
- Stacked Supramolecular Structures Involving Hydrogen-bonded Networks in Highly Functionalised Tetrathiafulvalene Derivatives, 1201
- Dynamic Disorder in $[\text{Fe}_2\text{Os}(\text{CO})_{12}]$. Structural Evidence of the Metal Triangle Rotation, 1219
- A New Organic Superconductor, λ -BETS₂GaBrCl₃ [BETS = bis(ethylenedithio)tetraselenafulvalene], 1225
- cis*-Pt(C₆F₅)₂(C≡CPh)₂²⁻ as a Double Alkynyl Transfer Reagent. Synthesis and Characterization of the Ir(III)-Pt(II) Tweezer Complex $\{[(\eta^5\text{-C}_5\text{Me}_5)(\text{PEt}_3)\text{Ir}(\text{C}\equiv\text{CPh})_2]\text{Pt}(\text{C}_6\text{F}_5)_2\}$, 1227
- An Octameric Titanium Oxo Metallocycle with Host-Guest Interactions, 1231
- An Iterative Synthetic Approach to Nanometre-scale Molecular Ribbons, 1237
- Non-classical [1₄]Metaheterophanes Containing Betaine Units. Synthesis, NMR Spectroscopy and X-Ray Crystallography, 1239
- Synthesis and Structure of a Novel Open-framework Gallium Phosphate $[\text{Me}_2\text{NH}(\text{CH}_2)_2\text{NHMe}_2]^{2+}[\text{Ga}_4\text{P}_5\text{O}_{20}\text{H}]^{2-} \cdot \text{H}_2\text{O}$, 1261
- Oligomerisation of Phenylacetylene at a Polynuclear Site; the Molecular Structure of $[\text{Ru}_6\text{C}(\text{CO})_{12}(\mu_2\text{-CO})(\eta^5\text{-C}_5\text{H}_3\text{Ph}_2)(\mu_3\text{-CPh})]$, 1263
- Linear Face-sharing Trioctahedral $[\text{Mo}_3\text{I}_{12}]^{3-}$ by Spontaneous thf Loss from $[\text{MoI}_4(\text{thf})_2]^-$: Structure, Bonding and Magnetic Properties, 1265
- Use of Trimethylamine *N*-Oxide in the Controlled Air-oxidation of Metal Carbonyl Complexes; Synthesis and Crystal Structure of a Novel Organometallic Oxo Complex of Dimolybdenum, 1269
- Unique Structural Features in Silver(I) Dithioether Complexes: the Single-crystal Structures of $[\text{Ag}_n(\text{PhSCH}_2\text{CH}_2\text{CH}_2\text{SPh})_{2n}]-(\text{BF}_4)_n \cdot 0.5n\text{H}_2\text{O}$ and $[\text{Ag}_n(\text{MeSCH}_2\text{CH}_2\text{CH}_2\text{SMe})_n](\text{BF}_4)_n$, 1277
- nido*- $\{[(\text{C}_5\text{Me}_5)\text{Ir}]_3\text{H}_7\{(\text{PPh}_3)_2(\text{CO})\text{Os}\}\}$, *closo*- $\{[(\text{C}_5\text{Me}_5)\text{Ir}]_3\text{H}_5\{(\text{PPh}_3)_2(\text{CO})\text{Os}\}\}$ and *pileo*- $\{[(\text{PPh}_3)\text{COHf}]_3\text{H}_5\{(\text{PPh}_3)_2(\text{CO})\text{Os}\}\}$: a Unique Homologous Series of Irida-*os*maborane Cluster Types, 1285
- Gaining Control over Molecular Threading: Benefits of Second Coordination Sites and Aqueous-Organic Interfaces in Rotaxane Synthesis, 1289
- The First Diferric Model Compound for the Uteroferrin-Arsenato Complex, 1305
- Corrigendum*: Scission of Ethyne into Two Methylidyne Ligands: C≡C vs. C-H Bond Activation, 1309
- Novel Rhodium-Antimony Bimetallic Complexes containing an Unusual Distibine *cis*-Eclipsed Conformation, 1325
- Template Symmetry Effect in Open-framework Synthesis: a New Vanadium(IV) Phosphate, 1337
- Benzotriazole-mediated Assembly of the Discrete Asymmetric Pentanuclear Nickel Complex $[\text{Ni}_5(\text{OH})(\text{bta})_5(\text{acac})_4(\text{H}_2\text{O})_4]$ (Hbta = benzotriazole, Hacac = pentane-2,4-dione), 1347
- Highly Twisted Substituted Arenes: X-Ray Structure and Dynamic ¹H NMR Spectra of 1,4-Dialkyl-2,3,5,6-tetrakis(alkylsulphonyl)-benzenes, 1357
- The Methylzinc Hydroborate Derivative $(\text{MeZn})_2\text{B}_3\text{H}_7$: Synthesis, Crystal Structure and Vibrational Spectra of an Unprecedented Cluster Compound, 1363
- Synthesis and Crystal Structure of a Dinuclear Copper(II) Complex with a Novel Tetrapyrazolyl Macrocycle, 1365
- Synthesis and Structural Characterization of the First Donor-stabilized Phosphanetriylphosphonium Cation: $[\text{Ar}^*\text{PP}(\text{PPh}_3)]^+$ ($\text{Ar}^* = 2,4,6\text{-Bu}_3\text{C}_6\text{H}_2$), 1383
- Unexpected Staudinger Reaction of α -Azidophenylacetonitrile and Triphenylphosphine: Synthesis and Crystal Structure of Aminotriphenylphosphonium Salt of Phenylmalononitrile, 1387
- Cyclohexannulated [5.3.1]Propellanes as Precursors to the ABC Ring System of Paclitaxel (TaxolTM), 1395
- Tris(2-methoxyphenyl)bismuthane as a Dehydrating Agent with High Template Ability: an Efficient Single-step Synthesis of Macrocylic Diesters from Diacid Anhydrides and Glycols, 1407
- Crystal Structure of Silver(I) Glutarate, a Two-dimensional Polynuclear Coordination Polymer, 1415
- Synthesis and Structure of the First Germaketenedithioacetal, 1425
- Novel Ligand Transformations in Cluster Complexes. Activation of C-F Bonds in a Perfluorovinyliron(II) Complex by Primary and Secondary Amines, 1431
- $\text{F}_2\text{C}=\text{N}=\text{S}(\text{F})=\text{N}-\text{CF}_2^-$, a Cyclic Bis(imino)fluorosulfinate from an Unexpected Rearrangement, 1437
- $[\text{VO}\{N-(2\text{-oxido-1-naphthylmethylene})\text{-L-ala}\}\text{OBu}^s(\text{HOBu}^s)]$: Characterization of a Complex containing Four Centres of Chirality, 1443
- One-pot Synthesis and X-Ray Studies on Cyclic Oligobipyridines and one of their Dinuclear Ruthenium Complexes, 1445
- C-H Bond Activation of Simple Alkenes with Cyclopentadienylcobalt Fragments: Preparation and Structure of Tri- and Tetra-cobalt μ -Cycloalkyne Cluster Complexes, 1447
- Novel Sulfurated Five-, Seven- and Nine-membered Heterocycles: Unusual Products derived from Potential Bisthionitroxide Precursors, 1449
- Optical Resolution of 1,3-Dimethyl-5-phenyl- Δ^2 -pyrazoline by Diastereoisomeric Complex Formation with an Optically Active Host Compound: X-Ray and Molecular Structure of the Complex, 1453
- Monomeric Selenolato- and Telluroolato-aluminium(III) and -gallium(III) $[\text{Me}_3\text{NM}(\text{ER})_3]$ (E = Se, Te; R = Alkyl, Aryl), *via* Trimethylamine Alane/Gallane Cleavage of Diorganodichalcogens, 1457
- The Synthesis of Novel 3,4-Dihydro-1,2,5,7,4-tetroxazocine Derivatives *via* Extended [3 + 3 + 2] Cycloaddition Reactions between a Carbonyl Oxide, a Nitrene and an Aldehyde, 1469
- Complexes $[(\text{P}_2)\text{Rh}(\text{hfacac})]$ (P_2 = Bidentate Chelating Phosphane, hfacac = Hexafluoroacetylacetonate) as Catalysts for CO₂ Hydrogenation: Correlations between Solid State Structures, ¹⁰³Rh NMR Shifts and Catalytic Activities, 1479
- The First Examples of an Aryl Ring Substituted by Both Phosphine and Phosphonate Moieties: Synthesis and Characterization of the New Highly Water-soluble Phosphine Ligand $\text{Na}_2[\text{Ph}_2\text{P}(\text{C}_6\text{H}_4\text{-p-PO}_3)] \cdot 1.5\text{H}_2\text{O}$ and Platinum(II) Complexes, 1487
- Trinickel(II) Complex of an Acyclic Thiophenolate Ligand: the X-Ray Crystal Structure of $[\text{Ni}_3\text{L}_2\text{Ni}](\text{ClO}_4)_2(\text{H}_2\text{O})$ Reveals Alternating Square-planar and Octahedral Nickel Ions, 1493
- An Alkyne Group with a Pair of Hydrogen Bonds: the Crystal Structure of 2,2'-Ethylenedibenzenboronic Acid at 122 K, 1499
- Simultaneous Binding of Boron and Ammonium Cation by a Pseudocryptand: Synthesis, X-Ray Analysis and Solution Studies by NMR Spectroscopy, 1505
- Selective Redistribution Reactions of Tetraphosphorus Hexaoxide; Crystal Structure of $\text{P}_4\text{O}_6\text{NC}_6\text{H}_5$, 1509
- Syntheses of Acyloxy Carbene Complexes $\text{M}(\text{SnPh}_3)(\text{CO})_n\{=\text{C}(\text{OCOR})\text{Ph}\}(\eta\text{-C}_5\text{H}_5)$ (M = Mo, W, *n* = 2, R = Me; M = Fe, Ru, *n* = 1, R = Me, Ph, Bu^t) and X-Ray Crystal Structures of $\text{Fe}(\text{SnPh}_3)(\text{CO})\{=\text{C}(\text{OCOR})\text{Ph}\}(\eta\text{-C}_5\text{H}_5)$ (R = Me, Ph), 1511
- Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (Hpyhy) and Complexes of pyhy with Nickel(II) and Copper(II), 1521
- Isolation of Anhydrous Hydrazine as Stable Inclusion Complexes with Hydroquinone and *p*-Methoxyphenol, and their Solid State Reaction with Esters which gives Pure Hydrazides, 1531
- A Novel Coordination Mode for Cationic Phosphorus π Systems: μ^2 -Bridging Coordination of a Bis(phosphonio)isophosphindolium Cation, 1541
- A Two-dimensional Bimetallic Assembly, $[\text{Ni}(\text{pn})_2][\text{Fe}(\text{CN})_6]\text{-ClO}_4 \cdot 2\text{H}_2\text{O}$, with a Square Structure, 1545
- Synthesis and X-Ray Crystal Structure of $[\text{H}_5\text{O}_2^+ \cdot 21\text{-Crown-7}][\text{WOCl}_5^-]$, a Complex in which the 21-Crown-7 Molecule adopts a Rigid, Bowl-like Conformation, 1551
- Copper(II) and Zinc(II) Macrocylic Complexes with High Efficiency in Fixing CO₂. Crystal Structures of $\{[\text{ZnL}]_3(\mu_3\text{-CO}_3)\} \cdot (\text{ClO}_4)_4$ and $\{[\text{CuL}]_3(\mu_3\text{-CO}_3)\} \cdot (\text{ClO}_4)_4$ (L = [15]aneN₃O₂), 1555

- Synthesis and Structure of $\text{Mo}_2\text{Te}_{10}\text{I}_{10}$ containing TeI_3^- Ligands coordinated to a Triangular Cluster Fragment $[\text{Mo}_3(\mu_3\text{-Te})(\mu_2\text{-Te}_2)_3]^{4+}$, 1559
- Synthesis and X-Ray Crystal Structural Analysis of a Fully Unsaturated Tetraphosphole Macrocyclic, 1561
- The Synthesis and X-Ray Crystal Structure of a Cyclopentaannulated Sugar; the First Example of an Intramolecular Aldol Cyclopentaannulation in Carbohydrate Chemistry, 1567
- An Intramolecular $\text{W-H}\cdots\text{O}=\text{C}$ Hydrogen Bond? Electrosynthesis and X-Ray Crystallographic Structure of $[\text{WH}_3(\eta^1\text{-OCOMe})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)_2]$, 1569
- Novel Catalysts for the Carbonylation of Methanol, 1579
- Site-specific Ligand Variation in Manganese-Oxide Cubane Complexes, and Unusual Magnetic Relaxation Effects in $[\text{Mn}_4\text{O}_3\text{X}(\text{OAc})_3(\text{dbm})_3]$ ($\text{X} = \text{N}_3^-, \text{OCN}^-$; $\text{Hdbm} = \text{dibenzoylmethane}$), 1591
- Chiral Discrimination in Capillary Electrophoresis using Novel Anionic Surfactants related to Cysteine, 1575
- Stereoselective Syntheses of α -Hydroxy- γ -amino Acids: Possible γ -Turn Mimetics, 1605
- The Structure of a Stable New Organotellurium Azide: Bis-Azidodiphenyltellurium(IV) Oxide, 1609
- A Versatile Synthetic Method for Diiron Bridging Allenylidene Complexes $(\eta^5\text{-C}_5\text{Me}_5)_2\text{Fe}_2(\mu\text{-CO})(\text{CO})_2(\mu\text{-}\eta^1\text{:}\eta^1\text{-C}=\text{C}=\text{CR}^1\text{R}^2)$ via Nucleophilic Addition to the Ethynediylidiron Complex $(\mu\text{-C}\equiv\text{C})[\text{Fe}(\eta^5\text{-C}_5\text{Me}_5)(\text{CO})_2]_2$, 1611
- Formation and Isolation of Huge Cyclic Oligomers: Polycondensation of 1,5-Bis(1-hydroxy-3,6,9-trioxanonyl)naphthalene and Terephthaloyl Chloride, 1621
- A Novel Synthesis of a Germene and of a 1,2-Digermacyclobutane via a Peterson-type Reaction, 1625
- Novel Intramolecular Michael-type Reactions between Vinylidiphenylphosphine and Pentamethylcyclopentadienyl Coordinated to Rhodium(III): Formation and X-Ray Structures of Heptadentate 10-Electron Donor Ligands, 1629
- 1,3,7,9,11,15,17,19,23,25,27,34-Dodecaazanonacyclo-[25.5.3.26.9.214.17.222.25.13.7.111.15.119.23.030.34]tetratetracontane, 1631
- 1,3,6,7,9,11,14,15,17,19,22,23,25,27,30,34-Hexadecaazanonacyclo-[25.5.3.26.9.214.17.222.25.13.7.111.15.119.23.030.34]tetratetracontane, 1633
- Novel Optically Active 7,7'-Bridged-1,1'-biisoquinolines and their Chelation to Rhodium(I) Ion, 1637
- Host Molecules containing Electroactive Cavities obtained by the Molecular Assembly of Redox-active Ligands and Metal Ions, 1643
- The First Triazatrimethylenemethane Dianion: Crystal Structure of Dilithio-triphenylguanidine $\text{Li}_2[\text{C}(\text{NPh})_3]$ as its Tetrahydrofuran Solvate, 1647
- Caged Anions: Perchlorate and Perfluoroanion Cryptates, 1649
- Synthesis, Spectroscopic Properties and Molecular Structure of the Paramagnetic Complex $[(\eta^5\text{-3,5-di-tert-butyl-1,2,4-triphosphacyclopentadienyl})(\eta^5\text{-2,4,5-tri-tert-butyl-1,3-diphosphacyclopentadienyl})\text{vanadium(II)}]$, 1659
- Preparation and Ligating Properties of the First Example of a 1,2,4-Triphosphole, $\text{P}_3\text{C}_2\text{Bu}_2\text{R}$ [$\text{R} = \text{CH}(\text{SiMe}_3)_2$]: Crystal and Molecular Structures of $\text{P}_3\text{C}_2\text{Bu}_2\text{CH}(\text{SiMe}_3)_2$, *trans*- $[\text{PtCl}_2(\text{PEt}_3)_2(\text{P}_3\text{Bu}_2\text{CH}(\text{SiMe}_3)_2)]$ and $[\text{Fe}_2(\text{CO})_6(\mu\text{-P}_3\text{C}_2\text{Bu}_2\text{CH}(\text{SiMe}_3)_2)]_2$, 1661
- Macropolyhedral Boron-containing Cluster Chemistry—The Nineteen-vertex Oxaborane Anion, $[\text{OB}_{18}\text{H}_{21}]^-$, 1665
- Chloride and Phosphide-substituted Gallium Hydrides: $[\text{Cy}_3\text{PGaH}_{3-n}\text{Cl}_n]$, $n = 1$ or 2 , and Trimeric $\{(\text{H}_2\text{Ga}(\mu\text{-PCy}_2))_3\}$, 1669
- Is it Possible to Stabilise Complexes with a Tungsten-Phosphorus Triple Bond?, 1671
- A Novel Open-framework Sodium Zincophosphate with Isomorphous Cobalt(II) Substitution, 1681
- Synthesis and Structure of 1,3-Bis[tris(trimethylsilyl)methyl]-2,4,5-triseleno-1,3-digermacyclo[1.1.1]pentane, 1683
- Condensation Route from 1,1,1-Tris(diethylboryl)propane to Pentaethyl-1,5-dicarba-closo-pentaborane(5) via *arachno*- $\text{CB}_4(10)$ and *nido*- $\text{C}_2\text{B}_4(8)$ Carboranes, 1691
- (4-Dimethylaminopyridine)₅(benzoic acid)₃(H₂O)₁₀, a Two-dimensional Clathrate Hydrate, 1705
- Well-defined Ethylene Polymerisation Catalysts derived from Bis-(imido) Chromium(VI) Precursors, 1709
- $\text{PPh}_4^+\text{H}_2\text{P}_7^-$ —the First Stable Hydrogen Polyphosphide Salt, 1713
- $\text{P}_3\text{N}_3\text{F}_3\text{NPF}_2\text{NPF}_2\text{NPF}_2\text{NPF}_2^{2-}$: a Cyclophosphazene with a Phosphazene Side-chain Dianion by F^- -induced Ring-opening of $\text{P}_3\text{N}_3\text{F}_6$, 1717
- The Synthesis and Crystal Structures of the Tetraphenylarsonium Salts of $[\text{V}_2\text{O}_3(\text{NO}_3)_2\text{X}_4]^{2-}$, $\text{X} = \text{Cl}$ or NO_3 , 1733
- Palladium-complex-promoted Asymmetric Diels-Alder Reaction: Stereoselective Synthesis of a New Sulfinyl-substituted Phosphine Ligand containing Three Carbon, One Phosphorus and One Sulfur Stereogenic Centres, 1747
- Formation of the First Heterobimetallic Phosphido-bridged σ - π -Acetylide Complex $[(\text{C}_5\text{H}_5)_2\text{Ti}(\mu\text{-}\sigma,\eta^2\text{-C}\equiv\text{CPh})(\mu\text{-PPH}_2)\text{Ni}(\text{PPh}_3)]$ by Cleavage of the Central C-C Single Bond in $\text{PhC}\equiv\text{C}-\text{C}\equiv\text{CSiMe}_3$ and of the P-C Bond in Ph_3P , and Coupling of the Fragments to $\text{PhC}\equiv\text{CSiMe}_3$, 1753
- Oxidative Intramolecular Cyclization of 2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls affording Novel Bis(1,3-dithiole) Electron Donors, 1761
- Novel *ansa*-Ferrocenes with *o*-Phenylene-type Bridges by B-N Adduct Formation, 1765
- Construction of a Knitted Crystalline Polymer through the Use of Gold(I)-Gold(I) Interactions, 1773
- Synthesis and Characterization of a Trigonal Monopyramidal Nickel(II) Complex, 1777
- Synthesis, Crystal, Molecular and Electronic Structure of a Novel Heterobinuclear Alkoxide Cluster $[(\text{MeO})_2\text{ReO}(\mu\text{-OMe})_3\text{MoO}(\text{OMe})_2]$, 1779
- Highly Selective Formation and Ring Fission of some Cyclobutaquinolizidinones and Cyclobutaindolizidinones, 1783
- Novel Luminescent Cyclometalated and Terpyridine Gold(III) Complexes and its DNA Binding Studies, 1787
- Stereochemical Studies on the Proposed Spiro Intermediate for the Biosynthesis of the Natural Porphyrins: Determination by a Novel X-Ray Method of the Absolute Configuration of the Spirolactam which Inhibits Cosynthetase, 1789
- Stepwise Syntheses of Mono- and Di-nuclear Ruthenium tpphz Complexes $[(\text{bpy})_2\text{Ru}(\text{tpphz})_2]^{2-}$ and $[(\text{bpy})_2\text{Ru}(\text{tpphz})\text{Ru}(\text{bpy})_2]^{4+}$ {tpphz = tetrapyrido[3,2-a:2',3'-c:3'',2''-h:2'''-j]phenazine}, 1799
- The Synthesis and Structure of $\{[\text{P}^{\text{Pri}}\text{Bu}^t]\text{ZnOH}\}(\text{ClO}_4)$: A tris-(Imidazolyl)phosphine Zinc Hydroxide Complex and a Proposed Structural Model For Carbonic Anhydrase, 1813
- Metal-assisted Activation of the C-O Bond of 2-Hydroxyethylmethacrylate. Synthesis and Molecular Structure of $\text{Ti}_5(\text{OP}^{\text{Pr}})_9(\mu\text{-OP}^{\text{Pr}})(\mu,\eta^2\text{-OC}_2\text{H}_4\text{O})(\mu_3,\eta^2\text{-OC}_2\text{H}_4\text{O})_3(\mu_4,\eta^2\text{-OC}_2\text{H}_4\text{O})$, 1817
- Binding Properties and Crystal Structure of a Hemiacerand Containing Four Diethylene Glycol Units Connecting Two Bowls, 1825
- The First Monorganolead(II) Derivative, $\{[\text{PbR}(\mu\text{-Cl})]_2\}$ where $\text{R} = \text{C}(\text{SiMe}_2\text{Ph})_3$, 1829
- Heteroleptic Metallacyclic Potassium Organodiamido Zincate Complex. Synthesis and Structure of Polymeric $\{[\text{K}(\text{thf})][\text{MeZn}(\text{Bu}^t\text{NCH}=\text{CHNBu}^t)]_n\}$, 1839
- Synthesis and X-Ray Crystal Structure of a New Redox-active Calix[5]arene Containing a Totally Included Ethanol Molecule, 1851
- An Unexpected Reaction Between $\text{B}(\text{C}_6\text{F}_5)_3$ and $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Me}]$ Gives $\{[\text{Fe}-\sigma\text{-C}_6\text{F}_4(2\text{-C}(\text{O})\text{Me})(\eta^5\text{-C}_5\text{H}_5)(\text{CO})]\}$, 1853
- Ferromagnetic Spin Interaction in a Crystalline Molecular Complex Formed by Inter-heteromolecular Hydrogen Bonding: a 1:1 Complex of Phenyl Nitronyl Nitroxide Radical and Phenylboronic Acid, 1861
- The First Chelating Phosphorus-Nitrogen Dioxo Ligand: Complexation of an $\text{MoO}(\text{O}_2)_2$ Fragment, 1871
- Complexation with Helical Molecules: Helical Crystal Structure of Bis(hydroxymethyl)[7]thiaheterohelicene-Ethanol Clathrate, 1873
- Complexes of the Podand Ligand Tris[3-(2-pyridyl)-pyrazol-1-yl]borate with Lanthanoids and Actinoids: Rare Examples of Icosahedral N_{12} Coordination, 1881
- Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899
- A Novel Tetranuclear Copper(II) Complex with Three Different Types of Azide, exhibiting Weak Antiferromagnetic Exchange, 1907
- Magnetic Exchange Coupling in a Nearly Linear Iron(III)Nickel(II)-Nickel(II)Iron(III) Complex, 1913
- Metallosilanedioles of Molybdenum and Tungsten. Synthesis and Transformation to Functionalized Metallotrisiloxanes. Hydrogen-bonded Structure of $[(\text{C}_5\text{Me}_5)(\text{OC})_2(\text{Me}_3\text{P})\text{Mo}-\text{SiMe}(\text{OH})_2]$, 1917
- Synthesis, Structures and Reactions of New Thermally Stable Silylenes, 1931
- New Strategy for the Synthesis of the Taxane Diterpenes: Formation of the *A*-Ring via Nitro-aldol and Aldol Reactions, 1933
- New Strategy for the Synthesis of the Taxane Diterpenes: Formation of the Eight-membered *B*-ring of Taxol by Semi-pinacol Rearrangement, 1935
- Rationale for Predominance of 1,3-Dipolar Cycloreversion in Thermolysis of 3,4-Dihydropyrazole from Ethano-bridged Diphenyldiazomethane and 2,5-Dimethyl-1,4-benzoquinone. An X-Ray Study, 1937
- The First Reported Structure of a Platinum(IV) Complex containing Deprotonated Amide Ligands—A Model for Platinum(IV)-Peptide/Protein Interactions, 1939
- Synthesis, Binding Properties and Crystal Structure of a Hemiacerand Containing Four Pentamethylenedioxy Groups Spanning Two Bowls, 1947

- A Facile Stereoselective Route to a C/D-Ring Synthron for 20-Epi-22-oxavitamin D₃ Analogues, 1959
- The Photosensitized (Electron Transfer) [4e + 2e] Intramolecular Cycloaddition of 1,1,8,8-Tetraphenyl-1,7-octadiene; X-Ray Crystal Structure of 4a,9a-*trans*-4a,10-*trans*-1,2,3,4,4a,9,9a,10-Octahydro-9,9,10-triphenylanthracene, 1963
- Formation of Interwoven or Partially Interwoven Metallomacrocyclic Networks in Copper(II) or Zinc(II) Complexes with *N,N'*-*p*-phenylenedimethylenebis(pyridin-4-one), 1975
- New Polynuclear Nickel Complexes with a Variety of Pyridonate and Carboxylate Ligands, 1983
- Synthesis, Structure and Preliminary Magnetic Studies of a Heptadecanuclear Iron Complex, 1987
- A Mixed Organozinc-Diorganophosphide Complex containing Protic Phosphine Ligands Bonded to Zinc, 1989
- Diazo Transfer Reaction of 2-(Trimethylsilyl)-1,3-dithiane with Tosyl Azide. Reactivity of Transient 2-Diazo-1,3-dithiane, 1999
- Enantioselective Epoxidation of Unfunctionalized Alkenes by a Chiral Monooxoruthenium(IV) Complex [RuL(bpy)O]²⁺ {L = 2,6-bis[(4*S*,7*R*)-7,8,8-trimethyl-4,5,6,7-tetrahydro-4,7-methanoindazol-2-yl]pyridine; bpy = 2,2'-bipyridine}, 2007
- Dis-assembling Lithium Amide Ladder Structures: Structural Elucidation of the Lithium Anilide Solvate [{PhN(H)Li}₆·8THF], a Model Intermediate *En route* to Forming Tetra-solvated Ring Dimers, 2011
- A Structurally Characterized Dichloro-manganese(IV) Complex Capable of Halogenating Alkenes, 2015
- C-C Bond Formation in Organoruthenium Complexes by Friedel-Crafts Reactions, 2019
- Construction of a Phosphane-based Metallo-synthron Suitable for the Selective Formation of a Tetranuclear Ru₂-Cu₂ Macrocycle, 2033 [Cl₂Ga-NReCl₂(PMe₂Ph)₃] and [Cl₂Ga-NReCl(PMe₂Ph)₃-(NCMe)] [GaCl₄]: the First Complexes with Nitrido Bridges between Main Group and Transition Metals, 2047
- The Synthesis and Single-crystal X-Ray Structure of the First Example of a Tridentate, Di-orthometallated Triphenyl Phosphite Complex, 2049
- Coordination of SnCl₂ and GeCl₂ onto a One-dimensional Platinum Network: Synthesis and Structural Characterization of the [PPh₄]₂[Pt₈(ECl₂)₄(CO)₁₀] (E = Sn, Ge) Complexes, 2055
- The Synthesis and Structure of a Chiral Layered Aluminophosphate containing the Template Co(III)³⁺, 2059
- Novel Boron-Nitrogen Containing Compounds from the Reaction of Organolithiums with Complexes between Dimesitylfluoroborane and Six- or Five-membered Aza Aromatic Compounds, 2069
- First Macrocycle to Incorporate Phenol and Thiophenol Head Units: the X-Ray Crystal Structure of [Ni₂L(MeCN)₂](ClO₄)₂ reveals Bridged Square-planar and Octahedral Nickel(II) Ions, 2075
- Stereocontrolled Synthesis of Indolo[2,3-*a*]quinolizines by Intramolecular Double Michael Reaction: Proof for Stepwise Mechanism, 2085
- Weak Polar Host-Guest Interactions Stabilizing a Molecular Cluster in a Cyclodextrin Cavity: C-H···O and C-H···π Contacts in β-Cyclodextrin-But-2-yne-1,4-diol Heptahydrate, 2087
- Unusual Reaction of Tricarbonyl(*o*-chinodimethane)iron with *o*-Lithiobenzyl dimethylamine: Crystal Structure of [Fe(Me₂NCH₂C₆H₄C(OEt)CH₂C₆H₄CH₂)(CO)₃], 2089
- Synthesis and Structure of *s-cis*- and *s-trans*-μ-Butadiene-2,3-diylplatinum Complexes by the Reaction of μ-Ethyndiylplatinum Complexes with Tetracyanoethylene, 2095
- Preparation of Cationic (*E*)-σ-Alkenyl Palladium Complexes having a P-O-N or a P-O-P Tridentate Ligand as a Stabilized Intermediate of Palladium-catalysed Stereoselective Addition of Methanol to Acetylenes; Characterisation, X-Ray Analysis and the Reaction Pathway, 2099
- (η⁶-*p*-cymene)Ru≡N(2,4,6-tri-*tert*-butylphenyl): A Monomeric Ruthenium(II) Complex containing a Terminal Imido Ligand, 2109
- Synthesis and Structure of the first *trans*-1,2-Dihydro-1,2,3-triphosphite-Tungsten Complex, 2113
- Polyacrylate Resins bearing the Transition Metal Cluster Unit Co₃(CO)₉C, 2117
- Di-, Tri- and Tetra-nuclear Palladium(II) Complexes with Ureido Bridging Groups, 2123
- Intercalation of Oxide into [Zr(C₅Me₅)F₃], 2145
- Dilithiated salen Complexes: Chiral [(salen)Li₂·hmpa]₂ and Deliberate Partial Hydrolysis to give [(salen)-Li₂]₃·Li₂O·2tmen·H₂O [H₂salen = *N,N'*-ethylenebis(salicylideneimine); hmpa = hexamethylphosphoramide; tmen = tetramethylethylenediamine], 2147
- Novel Asymmetric Pentadentate *N*-(*X*-Substituted Salicylidene)-*N',N'*-bis(2-hydroxyethyl)ethylenediamine Ligands afford the First Hexanuclear Manganese(III) Complexes, 2155
- Chemistry of μ-η¹:η²_{α,β}-Butadiynyls: Chain Extension on C₄ Polycarbon Ligands, 2165
- Phosphaalkyne Tetramerisation: First Structural Characterisation of a Tetraphosphabishomoprismane. Synthesis and Molecular Structure of [W₂(CO)₁₀(P₄C₄Bu₄)], 2167
- A Novel Hexanuclear Heteropolyperoxo Oxidation Catalyst: Preparation, X-Ray Crystal Structure and Reactions of [NMe₄]₃-[(MePO₃)(MePO₂(OH))₂W₆O₁₃(O₂)₄(OH)₂(OH₂)₂·4H₂O], 2183
- Synthesis and Molecular Structure of the First Organometallic Nitride Cubane: [(Ti(η⁵-C₅Me₅))₄(μ₃-N)₄], 2185
- Transition-metal mediated Functionalisation of a Phosphaalkyne: Crystal Structure of [Re{=C(Bu^t)P(H)OBF₃}Br(PPh₃)(η-C₅H₅)], 2191
- Design of Organic Superstructure based on a Preorganised Donor-Acceptor Unit, 2193
- Coordination Complexes with Infinite Lattice Structures: Solvothermal Synthesis and X-Ray Crystal Structures of K₂M-[NC₅H₃(CO₂)₂-2,3]₂ (M = Mn, Zn), 2197
- Crystallization of 4,4'-Biphenyldicarbonitrile with Silver(I) Salts: a Change in Topology Concomitant with a Change in Counterion Leading to a Ninefold Diamondoid Network, 2199
- A Novel Highly Diastereoselective Synthesis of Chiral Dihydrothiophenes from Mesoionic Compounds, 2213
- Preparation and X-Ray Structure of a New Organo-P-O-S Heterocycle, 2217
- Crystal Structure and Modelling Studies of *myo*-Inositol 1,2,3-Trisphosphate, 2219
- Cation-π Interaction between the Trimethylammonium Moiety and the Aromatic Ring within Indole-3-acetic Acid Choline Ester, a Model Compound for Molecular Recognition between Acetylcholine and its Esterase: an X-Ray Study, 2221
- New Terpenoid Hosts for Chiral Recognition: Crystal Structure and Molecular Modelling Study of an Inclusion Complex with (*S*)-(+)-Phenylloxirane, 2229
- Isocyanide Insertion into the Palladium-Carbon Bond of [PdMe(L-L)Cl] Complexes and the Reactivity of the Products toward Norbornadiene; X-Ray Crystal Structure of [Pd{C(=NC₆H₃Me₂-2,6)Me}(bpy)Cl] [L-L = bpy or phen], 2233
- Michael-type Addition of 1,8-Diazabicyclo[5.4.0]undec-7-ene to Dimethyl Acetylenedicarboxylate, 2251
- Redox Tuning of the Dimolybdenum Compounds at the Ligand Periphery: A Direct Correlation with the Hammett Constant of the Substituents, 2257
- Ruthenium-catalysed Cyclocarbonylation of 1,1'-Bis(silylethynyl)-ferrocene involving the 1,2-Migration of a Silyl Group, 2267
- Structure and Photophysical Properties of [Pt⁰(binap)₂] [binap = 2,2'-bis(diphenylphosphino)-1,1'-binaphthyl], 2273
- Towards Planar Tetracoordinate Carbon in the Puckered Ladder Structure of Dilithiated 1-Di-*tert*-butylhydroxymethyl-3,3-dimethylcyclopropene, 2279
- Directed Metallation of Adenine-N³ *via* Nucleobase-Ligand Conjugation, 2285
- Structural and Electrochemical Characterization of the Products of the C₆₀-Piperazine Reaction, 2287
- Preparation and Structure of Te₄N₂Cl₈(AsF₆)₂·2SO₂ containing Te₄N₂Cl₈²⁺, the First Tellurium-Nitrogen-Halogen Cation, 2311
- Unique Intramolecular Exchange between H of SiHPh₂ and SAR in [RhH(SiHPh₂)(SAR)(PMe₃)₃], 2315
- The First Example of a Transoid Amide (Imide) in an Eight-membered Lactam, 2325
- Unusual Six- and Eight-coordinated Cadmium(II) Malonate Complex: Relevance to ¹¹³Cd NMR Probe of Metal Binding Sites on Metalloproteins, 2333
- Isolation and Structural Determination of {(1,1,2,2-Tetracyano-1,2-ethanediy)bis[imino(cyanomethylene)]bis(cyanamide) ion(2-)}, [C₁₂N₁₂]²⁻, a New Cyanocarbon, 2343
- Synthesis and Properties of Mechanism-based Inhibitors and Probes for Inositol Monophosphatase derived from 6-*O*-(2'-Hydroxyethyl)-(1*R*,2*R*,4*R*,6*R*)-cyclohexane-1,2,4,6-tetraol, 2353
- A 'Direct' Relationship between E=Ti-L Bond Angle and Ti=E Bond Length can exist in [Ti(E)L₄] Complexes (E = Organoimido or Oxo), 2357
- Synthesis and Structure of a Complex of Bismuth(III) with a Nitrogen Donor Macrocycle, 2365
- Novel Ionic Media for Liquid Lasers, 2369
- Novel Metal Imido Calixarene Complexes, 2371
- Synthesis and X-Ray Crystal Structure of the First Pentanuclear Silver(I) Cluster of the Polyaza Cryptands, 2373
- Versatility of the Azido Bridging Ligand in the First Two Examples of Ferro-Antiferromagnetic Alternating Nickel(II) Chains, 2375
- Tetrahedral Platinum Carbonyl Clusters, 2381
- The Structures of Solvent-separated Naphthalene and Anthracene Radical Anions, 2393
- Macropolyhedral Boron-containing Cluster Chemistry. The Eighteen-vertex Monocarbaborane [(Me₃CNH₂)CB₁₇H₁₈(CN)], 2407
- Triple Interpenetration in [Ag(4,4'-bipyridine)][NO₃], a Cationic Polymer with a Three-dimensional Motif Generated by Self-assembly of 'T-shaped' Building Blocks, 2413
- C-H Activation and Nitride Insertion Reactions of a Cationic Niobium Alkylidene Complex, 2421

- Copper-promoted Intramolecular Selenium Transfer from a P=Se Group to a P-CH₂-P Methylene Carbon producing an Unusual Methaneselone Ligand, 2443
- Pronounced Effects of Ring Tilting on the Intramolecular Electron-transfer Rate in Mixed-valence Polyalkyl-substituted Biferrocenium Cations, 2453
- Synthesis of the First 2*H*-Selenete Complexes, Decomplexation and Dimerization to Dihydro-1,2-diselenine, 2461
- A Novel Dinuclear Ruthenium-1,8-Naphthyridine Catalyst for the Oxidation of Alcohols and the Epoxidation of Alkenes, 2465
- Ionic 'Diels-Alder' Reactions of Hexa-3,5-dienyl Trimethylsilyl Ether and Enones: X-Ray Structural Determination of Adduct Stereostructure, and a Stereoselective Approach to *Trans*-fused Octalin Systems, 2479
- Novel Insertion of Dimethylsilanone into an Yb-N Bond and Molecular Structure of the Insertion Product [$\{\text{Yb}(\eta^2\text{-C}_3\text{N}_2\text{HMe}_2\text{-3,5})(\mu\text{-}\eta^1\text{:}\eta^2\text{-OSiMe}_2\text{C}_3\text{N}_2\text{HMe}_2\text{-3,5})(\eta\text{-C}_5\text{H}_4\text{Me})_2\}$], 2483
- Switching of Two Amine Ligands via an S_N2-type Mechanism in a Coordinated Form of 2,6-Bis(*N,N*-dimethylaminomethyl)-phenylboronates, 2499
- Alane Reduction of Selenium and Tellurium: Tertiary Amine Stabilised Dimeric Chalcogenides, *trans*-[Me₃N(H)Al(μ-E)]₂ (E = Se, Te), 2501
- Easy Access to C,C'-Bifunctionalized 1*H*-Phosphirene-Tungsten Complexes: Evidence for Ambiphilic Reaction Behaviour of a Phosphanediy-Tungsten Complex, 2507
- Asymmetric 9-(1'-Naphthyl)fluorenes: Enantioselective Synthesis, Determination of Absolute Configuration and Retention of Axial Chirality in the Fluorenyl Carbanions, 2509
- Chiral Bicyclic Lactams—An Asymmetric Synthesis of the Framework of the *Lycopodium* Alkaloid Magellanine Containing all Six Adjacent Stereogenic Centres, 2511
- Tetranuclear Vanadium(III) Carboxylate Chemistry, and a New Example of a Metal Butterfly Complex exhibiting Spin Frustration: Structure and Properties of [V₄O₂(O₂CET)₇(bpy)₂](ClO₄), 2517
- Optically Active Naphthalene-Cr(CO)₃ Complexes via Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535
- Cyclophanes with Self-recognising Components, 2541
- The First Structurally Characterized and Strongly Luminescent Self-assembled Helical Heterodinuclear d-f Complex, 2575
- Corrigendum*: Synthesis and Crystallographic Characterizations of Trinuclear (μ₃-O) Zirconium Complexes, 2580
- CUBANE**
Synthesis and Molecular Structure of the First Organometallic Nitride Cubane: [$\{\text{Ti}(\eta^5\text{-C}_5\text{Me}_5)\}_4(\mu_3\text{-N})_4$], 2185
- CUMYL**
Oxidation of Isopropylbenzene by Iron Tetraphenylporphyrin: Evidence for the Interaction of the Cumyl Radical with Oxygen Donors, 429
- CUPRATE**
Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 485
Corrigendum: Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 1309
- CYANIC ACID**
Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 427
Corrigendum: Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 1195
- CYANIDE**
Corrigendum: Synthesis and Structure of Rb[Cd{Ag(CN)₂}₃] Containing Three Independent, Interpenetrating α-Polonium-related Nets, 605
- Detection of Surface CN and NCO Species as Possible Reaction Intermediates in Catalytic Lean NO_x Reduction, 813
- CYANINE DISTORTION**
Single Crystal Structure of [(Me₂N-C₆H₄)₂C⁺-C(C₆H₄-NMe₂)₂]⁻(I₃⁻)₂: a Twisted Tetraphenylethylene Dication with a C-C Single Bond, 1111
- CYANOCARBON**
Isolation and Structural Determination of {(1,1,2,2-Tetracyano-1,2-ethanediy)bis[imino(cyanomethylene)]bis(cyanamide) ion(2-)}, [C₁₂N₁₂]²⁻, a New Cyanocarbon, 2343
- CYANOGEN OXIDE**
Gas-phase Generation and Spectroscopy of the Unstable NCCNO Molecule, 1901
- CYANOHYDRIN**
Utility of Diene-Tricarbonyliron Complexes as Mobile Chiral Auxiliaries: Highly Diastereoselective 1,5-Nucleophilic Substitution with 1,2-Migration of the Fe(CO)₃ Moiety, 631
- Optically Active (*S*)-Ketone- and (*R*)-Aldehyde-cyanohydrins via an (*R*)-Oxynitrilase-catalysed Transcyanation. Chemoenzymatic Syntheses of 2-Cyanotetrahydrofuran and 2-Cyanotetrahydropyran, 989
- CYANURIC ACID**
The Ion-pair Reinforced, Hydrogen-bonding Molecular Ribbon, 805
- CYCLAM**
Novel Electrochemical Reactivity of Ni(cyclam)Br₂: Catalytic Carbon Dioxide Incorporation into Epoxides, 43
- Host Molecules containing Electroactive Cavities obtained by the Molecular Assembly of Redox-active Ligands and Metal Ions, 1643
- CYCLIC DIPEPTIDE**
Behaviour of Stereoisomeric *O*-Methyltyrosyl-*p*-nitrophenylalanines within the β-Cyclodextrin Cavity, 2437
- CYCLIC ETHER**
Highly Selective Asymmetric Intramolecular Selenocyclisation, 2321
- CYCLIC OLIGOMER**
Formation and Isolation of Huge Cyclic Oligomers: Polycondensation of 1,5-Bis(1-hydroxy-3,6,9-trioxanonyl)naphthalene and Terephthaloyl Chloride, 1621
- CYCLIC SULFATE**
Synthesis of Sugar Episulfides and Olefins from *vic*-Diols via Cyclic Sulfates, 461
- CYCLIC VOLTAMMETRY**
Spectroscopic and Electrochemical Observation of Both 17- and 19-Electron States of an Inorganometallic Transition Metal Complex: [Fe^{III}(η⁵-C₅Me₅)(S₂CNMe₂)₂], 249
- Methyl Viologen-Zeolite Electrodes: Intrazeolite Charge Transfer, 1313
- A Novel Method for Oxide Surface Modification using Functionalised Diphosphine Complexes, 2129
- Redox Tuning of the Dimolybdenum Compounds at the Ligand Periphery: A Direct Correlation with the Hammett Constant of the Substituents, 2257
- Structural and Electrochemical Characterization of the Products of the C₆₀-Piperazine Reaction, 2287
- CYCLISATION**
A Cyclisation Reaction Catalysed by Antibodies, 39
- Intramolecular Nucleophilic Substitution by Phosphinate and Thiophosphinate Anions: Relative Rates of Formation of Five- and Six-membered Rings, 83
- Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 187
- 5-*endo*-Trigonal Radical Cyclisation—a General Procedure for Making Five-Membered Rings, 319
- Palladium-catalysed Tandem Cyclisation-Cross-coupling Reaction with Triethyl-(1-methylindol-2-yl)borate, 409
- A Synthetic Route to Allenylidene Tetrahydrofurans, 897
- Corrigendum*: A Cyclization Reaction Catalysed by Antibodies, 911
- An Entry to Enantiomerically Pure *cis* Decalinic Structures from Carbohydrates, 937
- Reversible Cyclisation Reactions to Form Ruthenafurans: X-Ray Crystal Structure of [Ru(CO){C(Ph)OC(OEt)=CH}Cl(PMePh)₂], 941
- Intramolecular Cyclizations of α-Stannyl Radicals to Acylsilanes: Regiospecific Syntheses of Five-membered Cyclic Silyl Enol Ethers, 981
- Zirconium-promoted Intramolecular Cyclization of Terminal Alkynes and Unusual Carbonylation Reaction, 1009
- The Chiral Total Synthesis of (-)-Oncinotine, 1015
- Palladium-catalysed Cyclisation-Carboformylation. Molecular Queuing Cascades, 1135
- Corrigendum*: Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 1195
- A Short and Efficient Route to (±)-Anatoxin-*a*, 1461
- Synthesis of 7-, 8- and 9-Membered Rings via *Endo* Heck Cyclisations of Amino Acid Derived Substrates, 1743
- Oxidative Intramolecular Cyclization of 2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls affording Novel Bis(1,3-dithiole) Electron Donors, 1761
- An Unexpected Palladium-catalysed Cyclisation on Carbohydrate Templates, 1893
- Cyclisation of Totally Unprotected Peptides in Aqueous Solution by Oxime Formation, 2021
- Lewis Acid Catalysed Cyclisation and Halogen Exchange Reactions of 1,1'-Biphenyl-2-yl Isocyanide Dihalides, 2295
- A Straightforward Route to Ibophyllidine Alkaloids by a Double Transannular Cyclization, 2317
- Novel Synthetic approach to Carbeniums Utilizing Aza-Cope Mannich Cyclization, 2527
- CYCLISATION-AMINATION**
Palladium catalysed Cyclisation-Amination of Allenes—Effect of Base on Regioselectivity of Formation of Allylic Amines, 1903
- CYCLOADDITION**
Rh₂(OAc)₄-Catalysed Cycloaddition of Ethyl Diazoacetate to 1,2-Dialkoxybenzenes: a New Type of Stable Norcaradiene, 101
- Cycloaddition of Zirconacyclopentadienes to Alkynes using Copper Salts: Formation of Benzene Derivatives, 361
- Stepwise but Potentially Stereoselective Intramolecular [2 + 2] Cycloaddition of 2,6-Diarylocta-1,6-dienes via a 1,4-Cation Radical Intermediate, 521
- Hydroxy Direction of the Rhodium-mediated Dipolar Cycloaddition of Cyclic Carbenoids with Vinyl Ethers, 673

- The Intramolecular [2 + 4] Cycloaddition Reaction of *E,E*-9-Anthrylmethylene-[1-(2,5-dimethyl-3-furylethylidene)]succinic Anhydride, 837
- Importance of Steric Effects in the [4 + 2] Cycloaddition of 5-Substituted Pentamethylcyclopentadienes, 839
- Corrigendum*: Synthesis of 3-Vinylisoxazole by a Nitrile Oxide Cycloaddition/Diels–Alder Cycloreversion Pathway, 911
- A Simple Total Synthesis of (±)-Spirojatamol and (±)-Erythrodiene *via* Intramolecular 1,3-Dipolar Cycloaddition, 955
- Competing Pathways in the Photolytic Cycloaddition Reactions of *N*-Ethoxycarbonylazepine to [60]Fullerene: Formation of [2 + 4] and [2 + 6] Photoadducts, 1171
- Intermolecular Cycloaddition Reaction of Unactivated Alkenes and *o*-Quinone Methides generated by Electrochemical Oxidation: a Proposed Biomimetic Approach to the Euglobal Skeletons, 1381
- Attachment of Chelating Capacity to [60]Fullerene *via* Short Rigid Rods, 1417
- Solvent Effects on the Stereoselectivity of Ketene–Imine Cycloaddition Reactions, 1677
- Diastereoselective [2 + 2] Cycloaddition of Dichloroketene with α -Oxyaldehydes and α -Amino Aldehydes, 1735
- Syn* and *Anti* Cycloaddition of Singlet Oxygen to Bisdialine, 1887
- Reaction of [60]Fullerene with Benzocyclobutenone and Benzocyclobutenedione, 1961
- The Photosensitized (Electron Transfer) [4e + 2e] Intramolecular Cycloaddition of 1,1,8,8-Tetraphenyl-1,7-octadiene; X-Ray Crystal Structure of 4a,9a-*trans*-4a,10-*trans*-1,2,3,4,4a,9,9a,10-Octahydro-9,9,10-triphenylanthracene, 1963
- Intermolecular Polar [4 π + 2 π] Cycloadditions of Cationic 2-Azabutadienes from Thiomethylamines: A New and Efficient Method for the Regio- and Diastereo-selective Synthesis of 1,2,3,4-Tetrahydroquinolines, 2137
- Michael-type Addition of 1,8-Diazabicyclo[5.4.0]undec-7-ene to Dimethyl Acetylenedicarboxylate, 2251
- The Transannular Bond in [5,6]-NCO₂R-bridged Monoadducts of [60]Fullerene is Open, 2289
- Synthesis of the First 2*H*-Selenete Complexes, Decomplexation and Dimerization to Dihydro-1,2-diselenine, 2461
- Phosphine-mediated [2 + 2] Cycloaddition of Internal Alk-2-ynoate and Alk-2-yne to [60]Fullerene, 2473
- CYCLOALKANE**
- Ring Expansion or Spirocyclisation of (Phenylthiomethylene)-cycloalkanes with Aluminium Chloride *via* β -Thio Carbocations, 993
- A Direct Introduction of Perfluorooctyl Group into Cycloalkanes using the Photolysis of Perfluoroazooctane upon 185 nm Irradiation, 2027
- CYCLOALKANONE**
- Influence of β -Silyl Groups in Cycloalkanones on the Norrish Type I and Type II Cleavages, 299
- Generation of Acyl Anion Equivalents by *In Situ* Cathodic Reduction of Acyl Tributylphosphonium Ions Anodically Generated from Tributylphosphine and Carboxylic Acids: Preparation of α -Hydroxy Cycloalkanones from Keto Acids, 871
- Application of Enzymic Baeyer–Villiger Oxidations of 2-Substituted Cycloalkanones to the Total Synthesis of (*R*)-(+)-Lipoic Acid, 1563
- CYCLOALKENONE**
- Organolanthanide-catalysed Oligomerisation of 2-Cycloalken-1-ones, 1741
- CYCLOALKYNE**
- C–H Bond Activation of Simple Alkenes with Cyclopentadienylcobalt Fragments: Preparation and Structure of Tri- and Tetra-cobalt μ -Cycloalkyne Cluster Complexes, 1447
- CYCLOBUTAINDOLIZIDINONE**
- Highly Selective Formation and Ring Fission of some Cyclobutaquinolizidinones and Cyclobutaindolizidinones, 1783
- CYCLOBUTANONE**
- Metal-catalysed Enantiospecific Aerobic Oxidation of Cyclobutanones, 1247
- CYCLOBUTAQUINOLIZIDINONE**
- Highly Selective Formation and Ring Fission of some Cyclobutaquinolizidinones and Cyclobutaindolizidinones, 1783
- CYCLOCARBONYLATION**
- Ruthenium-catalysed Cyclocarbonylation of 1,1'-Bis(silylethynyl)-ferrocene involving the 1,2-Migration of a Silyl Group, 2267
- CYCLODEXTRIN**
- Effect of Excitation on the Host–Guest Equilibrium Constants of Cyclodextrin Complexes, 199
- Isostructural Replacement of an N–H \cdots O by a C–H \cdots O Hydrogen Bond in Complex Stabilisation: Crystal Structures of β -Cyclodextrin Complexed with Diethanolamine and with Pentane-1,5-diol, 511
- Synthesis of a 'Head-to-tail' Type Cyclodextrin Dimer Linked by a Disulfide Bridge, 581
- A Cyclodextrin–Porphyrin Assembly as Chemosensor for Pentachlorophenol, 663
- Dansyl-modified β -Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721
- pK_a of Singly Reduced C₆₀ Encapsulated in γ -Cyclodextrin, 759
- Control of Regioselectivity in the Diels–Alder Reactions of Alkyl-substituted 1,4-Benzoquinones by β -Cyclodextrin and its Derivatives, 971
- Chemical–Enzymatic Synthesis and Bioactivity of Mono-6-[Gal- β -1,4-GlcNAc- β -(1,6')-hexyl]amido-6-deoxy-cycloheptaamylase, 1019
- Novel Water-soluble Cyclodextrin–Calix[4]arene Host Molecules with Strongly Enhanced Binding Properties, 1151
- High Enantioselectivity in the Reactions of (*R*)- and (*S*)-1-Phenylethylamine with 6^A-Deoxy-6^A-iodo- β -cyclodextrin, 1167
- Weak Polar Host–Guest Interactions Stabilizing a Molecular Cluster in a Cyclodextrin Cavity: C–H \cdots O and C–H \cdots π Contacts in β -Cyclodextrin–But-2-yne-1,4-diol Heptahydrate, 2087
- On the Interpretation of Excited-state Decay Data for the Determination of the Equilibrium Constants in Compartmentalized Systems, 2433
- Comments on the Interpretation of Triplet Excited-state Decay Data for the Determination of the Equilibrium Constants in Host–Guest Cyclodextrin Complexes, 2435
- Behaviour of Stereoisomeric *O*-Methyltyrosyl-*p*-nitrophenylalanines within the β -Cyclodextrin Cavity, 2437
- CYCLODIMERIZATION**
- Novel Palladium-catalysed Cyclodimerization of Butadiene in the Presence of Carbon Dioxide and Water, 931
- CYCLOHEPTATRIENOL**
- Diazo-coupling Reactions of Cycloheptatrienols: a Combined Experimental and Theoretical Study, 175
- CYCLOHEPTATRIENYL**
- Synthesis and Crystal Structure of [K(C₁₂H₂₄O₆)] [U(η -C₇H₇)₂], The First Cycloheptatrienyl Sandwich Compound, 183
- CYCLOHEXADIENE**
- Radical-chain Decomposition of Cyclohexa-1,4-diene-3-carboxylates and 2,5-Dihydrofuran-2-carboxylates, 27
- CYCLOHEXANE DIONE**
- Hosting Paramagnetic [Cr(C₆H₆)₂]⁺ in an Organic Anion Framework *via* CH \cdots O Hydrogen Bonds, 1023
- CYCLOHEXANOL**
- Hydrogenation of Halophenols to Cyclohexanols Using Raney Nickel–Aluminium Alloy in Saturated Ba(OH)₂ Solution under Mild Conditions, 209
- CYCLOHEXANONE**
- Stereoselective Reduction of 4-*tert*-Butylcyclohexanone to *cis*-4-*tert*-Butylcyclohexanol catalysed by Zeolite BEA, 1859
- CYCLOHEXANONE MONOOXYGENASE**
- Enantioselective Oxidation of 1,3-Dithioacetals Catalysed by Cyclohexanone Monooxygenase, 1123
- CYCLOHEXENE OXIDE**
- Convenient Syntheses, based on Cyclohexene Oxide, of Ligands that are Highly Preorganised for Metal Ion Size-based Selectivity, 415
- CYCLOHEXENECARBOXAMIDE**
- Enantioselective Intramolecular [2 + 2] Photocycloaddition Reaction of *N*-Allyl-3-oxo-1-cyclohexenecarboxamides in Inclusion Crystals with Chiral Host Compounds, 621
- CYCLOHEXENYLCARBONYL-COA REDUCTASE**
- Kinetic and Stereoelectronic Effects of a Fluorine Substituent on the Reaction Catalysed by an NADPH-Dependent Cyclohex-1-enylcarbonyl CoA Reductase, 2329
- CYCLOOCTENE**
- Ruthenium-based Catalysts for the Ring Opening Metathesis Polymerisation of Low-strain Cyclic Olefins and of Functionalised Derivatives of Norbornene and Cyclooctene, 1127
- CYCLOOLIVIL**
- The First Synthesis of (±)-Cyclooolivil: A Highly Stereoselective Synthesis of 3-Hydroxy-1-aryltetralin Lignans Based on the Stereoselective Hydroxylation of α,β -Dibenzyl- γ -butyrolactones, 671
- CYCLOPENTAANNULATION**
- Cyclopentaannulation of Allyl Alcohols *via* a Radical Cyclisation Reaction. Total Synthesis of 4-Epibakkenolide-A, 469
- The Synthesis and X-Ray Crystal Structure of a Cyclopentaannulated Sugar; the First Example of an Intramolecular Aldol Cyclopentaannulation in Carbohydrate Chemistry, 1567
- CYCLOPENTACEPYRYLENE**
- Cyclopent[*fg*]acepyrylene, Cyclopent[*jk*]acepyrylene and Cyclopent[*mn*]acepyrylene: Novel C₂₀H₁₀ Cyclopenta-fused Polycyclic Aromatic Hydrocarbons, 2415
- CYCLOPENTADIENE**
- [3 + 2] Annulation of Allylidene(triphenyl)phosphorane with 1,2-Diacylethylenes: Synthesis of Substituted Cyclopentadienes, 449
- Prop-2-ynyl Alcohol as a Precursor to the η^1 -Ethenyl Ligand, 1209
- CYCLOPENTADIENYL**
- Thermodynamics of Benzylic C–H Activation in 18- and 19-Electron Iron Sandwich Complexes: Determination of pK_a values and Bond Dissociation Energies, 7
- An Orthometallated Cyclopentadienyl Phosphine Bridge in a New Type of Heterobimetallic Complex: [(η^5 -C₅H₅)(η^5 -C₅H₄)Mo(*o*-C₆H₄P(Ph)Cr(CO)₅)]X (X = Cl, I), 45

- The Synthesis and Characterisation of $\text{Ru}_6(\mu_3\text{-H})(\mu_4\text{-}\eta^2\text{-CO})_2(\text{CO})_{13}(\eta^5\text{-C}_5\text{H}_4\text{Me})$ —an Example of Cluster Mediated Ring Contraction, 159
- Syntheses and Crystallographic Characterizations of Trinuclear ($\mu_3\text{-O}$) Zirconium Complexes, 823
- The Next Homologue of the Bis(cyclopentadienyl)thallate Anion; Synthesis and X-Ray Structure Determination of $[(\eta^5\text{-C}_5\text{H}_5)\text{Tl}(\mu\text{-C}_5\text{H}_5)\text{Tl}(\eta^5\text{-C}_5\text{H}_5)]^-\text{[Li(12-crown-4)}_2\text{]}^+\cdot\text{thf}$, 927
- Synthesis and Structure of the Mixed Anion Sandwich Complex $\{[(\text{C}_5\text{H}_5)_9\text{Pb}_4]^-[(\text{C}_5\text{H}_5)_5\text{Pb}_2]^-[\text{Li(12-crown-4)}_2\text{]}^+\}_2$, 1141
- C-H Bond Activation of Simple Alkenes with Cyclopentadienylcobalt Fragments: Preparation and Structure of Tri- and Tetra-cobalt μ -Cycloalkyne Cluster Complexes, 1447
- CYCLOPENTANE**
Samarium(II) Iodide Promoted Ring Contraction of Carbohydrate Derivatives: an Expedient Synthesis of Functionalised Cyclopentanes, 1373
- CYCLOPENTENE**
Amplified Asymmetric Dihydroxylation of a Racemic Cyclopentene, 1501
- CYCLOPENTENONE**
Chemoenzymatic Synthesis of *trans*-4,5-Dihydroxycyclopent-2-enones: Conversion to D-1-Deoxynojirimycin, 1139
- CYCLOPHANE**
Calix[6]resorcinarenes: The First Examples of [1₆]Metacyclophanes derived from Resorcinols, 309
- Novel Extended π -Redox Cage-like Systems and their Conformational Versatility, 1229
- Cyclophanes with Self-recognising Components, 2541
- CYCLOPHOSPHAZENE**
 $\text{P}_3\text{N}_3\text{F}_5\text{NPF}_2\text{NPF}_2\text{NPF}_5^{2-}$: a Cyclophosphazene with a Phosphazene Side-chain Dianion by F⁻-induced Ring-opening of $\text{P}_3\text{N}_3\text{F}_6$, 1717
- CYCLOPROPANATION**
An Asymmetric Synthesis of Novel Aminocyclopropyl Carboxylic Acids (ACC), 141
- Synthesis of 1,2-Cyclopropanated Sugars from Glycals, 217
- Studies towards the Synthesis of FR-900848: Stereoselective Preparation of *anti*-Bicyclopropane Derivatives, 355
- Stereoselective Cyclopropanation of 1-Azadienes with Fischer Carbene Complexes, 665
- Cyclopropanation of Tricarbonyl(styrene)chromium(0), 1535
- CYCLOPROPENE**
Towards Planar Tetracoordinate Carbon in the Puckered Ladder Structure of Dilithiated 1-Di-*tert*-butylhydroxymethyl-3,3-dimethylcyclopropene, 2279
- CYCLOPROPENONE**
Successive Electrocyclic Rearrangements Initiated by the Addition of a Lithiated Cyclopropenone Acetal to a Squarate Ester, 1351
- CYCLOPROPYL**
Approaches to the Assembly of the Antifungal Agent FR-900848: Determination of the Geometry of the Dicyclopropylethene Unit and an X-Ray Crystallographic Study of (1*R*,2*S*)-1,2-Bis[(1*S*,2*S*)-2-methylcyclopropyl]-1,2-ethanediyl 3,5-Dinitrobenzoate, 649
- CYCLOSARKOMYCIN**
Access to an Optically Pure Cyclosarkomycin by Conversion of the *Endo* Adduct of (*R*)-Allene 1,3-Dicarboxylate and Cyclopentadiene, 453
- CYCLOTRIMERIZATION**
Cyclotrimerization of Alkynes with [60]Fullerene in the Presence of Tricyclohexylphosphine, 1603
- CYCLOPENTADIENE**
Importance of Steric Effects in the [4 + 2] Cycloaddition of 5-Substituted Pentamethylcyclopentadienes, 839
- CYMENE**
 $(\eta^6\text{-}p\text{-cymene})\text{Ru}\equiv\text{N}(2,4,6\text{-tri-}i\text{-tert-butylphenyl})$: A Monomeric Ruthenium(II) Complex containing a Terminal Imido Ligand, 2109
- CYTOCHROME P450**
Oxidation of [60]Fullerene by Cytochrome P450 Chemical Models, 1537
- DANSYL**
Dansyl-modified β -Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721
- DATURA STRAMONIUM**
The Biosynthesis of Tropic Acid: The (*R*)-D-Phenylactyl moiety is processed by the Mutase involved in Hyoscyamine Biosynthesis in *Datura stramonium*, 127
- The Biosynthesis of Tropic Acid: The Stereochemical Course of the Mutase involved in Hyoscyamine Biosynthesis in *Datura stramonium*, 129
- DBN**
A New Reaction Involving 1,5-Diazabicyclo[4.3.0]non-5-ene as a Nucleophile and a Two Proton Donor, 2339
- DECALIN**
An Entry to Enantiomerically Pure *cis* Decalinic Structures from Carbohydrates, 937
- DECARBONYLATION**
Supramolecular Approach to Metal-Support Interactions: Formation and Decarbonylation of Allyl Alcohol by an Oxide-supported (σ -Allyl)rhodium(III) Complex, 1875
- DECARBOXYLATIVE AMINATION**
Observations on the Reaction of *O*-Acylothiohydroxamates with Thionitrite Esters: a Novel Free Radical Chain Reaction for Decarboxylative Amination, 2385
- DEETHYLBOPHYLLIDINE**
A Straightforward Route to Ibohyllidine Alkaloids by a Double Transannular Cyclization, 2317
- DEHYDROGENASE**
Monofluorophosphonates as Phosphate Mimics in Bioorganic Chemistry: a Comparative Study of CH_2 -, CHF - and CF_2 -Phosphonate Analogues of *sn*-Glycerol-3-phosphate as Substrates for *sn*-Glycerol-3-phosphate Dehydrogenase, 719
- DEHYDROGENATION**
Reactivity of Heterobimetallic Alkoxy-silyl and Siloxy Complexes in the Dehydrogenative Coupling of Stannanes, 1455
- DEHYDROSULFONYLATION**
Dehydrosulfonylation of Conjugated Enyne Sulfones: Convenient Synthesis of Diyne Compounds, 583
- DELOCALISATION**
Valence-localised and Valence-delocalised Mixed-valence States; The Effect of the Substitution Pattern of 1,2-, 1,3- and 1,4-[$\text{C}_6\text{H}_4\text{-}(\text{NH})_2$]²⁻ as Bridging Ligands, 2397
- DENDRIMER**
The Self-assembly of Branched [*n*]Rotaxanes—the First Step Towards Dendritic Rotaxanes, 751
- DENDROLASIN**
Wittig Rearrangement of 3-Furylmethyl Ethers and its Application to the Synthesis of Dendrolasin, 2135
- DENSITY FUNCTION CALCULATION**
The Anomalous High Reactivity of Ca^+ with S_8 in the Gas Phase: [CaS_3]⁺ and [CaS_{11}]⁺, 975
- DEOXYGUANOSINE**
High Activity of an Fe-tfda (tfda = 2-aminomethyltetrahydrofuran-*N,N*-diacetic acid) Complex for Hydroxylation at the Aromatic and Alkane Rings of 2'-Deoxyguanosine in the Presence of Hydrogen Peroxide, 1211
- Self-Assembly in Organic Solvents of a Deoxyguanosine Derivative Induced by Alkali Metal Picrates, 2555
- DEOXYNOJIRIMYCIN**
Chemoenzymatic Synthesis of *trans*-4,5-Dihydroxycyclopent-2-enones: Conversion to D-1-Deoxynojirimycin, 1139
- DEPROTECTION**
Nickel-catalysed Electrochemical Reductive Deprotection of Allyl Ethers, 2497
- DESULFURISATION**
Conversion of Thioesters and Thionolactones to Ethers; a General and Efficient Radical Desulfurisation, 1583
- DEUTERIATION**
Selective Release of Dihydrogen upon Deuteration of Polyhydrido Complexes: Studies on $[\text{WH}_3(\text{OCMeO})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)_2]$, 1571
- DEUTERIUM**
A Neutron Diffraction Study of the Acid Form of Zeolite Y and its Complex with Benzene, 2253
- Regioselective Catalytic Deuteration of Phospholipids—Unusual Mechanistic Aspects of Homogeneous Hydrogenation, 2299
- Gas-phase Pyrolysis of 2,3-Dihydro-1,4-diazepines: Involvement of the Saturated Portion of the Ring in Chemical Reactions and Novel *cis-trans* Isomerisation of a Fused Ring System, 2337
- DEUTERIUM NMR**
Investigation of the Stereochemistry of the Tri- and Tetra-ketide Hydroxyacyl Intermediates in the Biosynthesis of the Polyketide Aspyrone in *Aspergillus melleus* using Deuterium Labelling and Deuterium NMR Spectroscopy, 859
- The Pentaketide Hydroxyacyl Intermediate in Aspyrone Biosynthesis in *Aspergillus melleus* is shown to be the (*S*)-Enantiomer using Deuterium-labelled Precursors and ²H NMR, 861
- Investigation of the Stereochemistry of the Dehydration of the Diketide, (3*R*)-3-Hydroxybutyrate to Crotonate, in the First Chain Extension Cycle on the Aspyrone Polyketide Synthase in Intact Cells of *Aspergillus melleus*, 863
- DIACYLIMINIUM**
Electronic Influence of Iron Tetracarbonyl Complexation on Unsaturated *N,N*-Diacyliminium Ion Precursors, 619
- DIAGENESIS**
Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 187
- Corrigendum*: Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 1195
- DIALKOXYBENZENE**
 $\text{Rh}_2(\text{OAc})_4$ -Catalysed Cycloaddition of Ethyl Diazoacetate to 1,2-Dialkoxybenzenes: a New Type of Stable Norcaradiene, 101

DIALLYLIC SULFONE

Stereoselective Synthesis of Substituted 1,3,5-Hexatrienes from Diallylic Sulfones, 1297

DIAMIDOBENZENE

Valence-localised and Valence-delocalised Mixed-valence States; The Effect of the Substitution Pattern of 1,2-, 1,3- and 1,4-[C₆H₄(NH)₂]²⁻ as Bridging Ligands, 2397

DIAMINO BENZENE

Functionalisation of [Mo₆O₁₉]²⁻ with Aromatic Amines: Synthesis and Structure of a Hexamolybdate Building Block with Linear Difunctionality, 455

DIAMOND LATTICE

1,3,7,9,11,15,17,19,23,25,27,34-Dodecaazanonacyclo[25.5.3.2^{6,9}.214.17.222.25.13.7.111.15.119.23.0^{30,34}]tetratetracontane, 1631

DIAMONDOID

Coordination Complexes with Infinite Lattice Structures: Solvothermal Synthesis and X-Ray Crystal Structures of K₂M[NC₅H₃(CO₂)₂-2.3]₂ (M = Mn, Zn), 2197

Crystallization of 4,4'-Biphenyldicarbonitrile with Silver(I) Salts: a Change in Topology Concomitant with a Change in Counterion Leading to a Ninefold Diamondoid Network, 2199

DIANION

Boron-centred Diradical Dianion: a New Triplet State Molecule, 1957

DIARYLFORMAMIDINATE

Redox Tuning of the Dimolybdenum Compounds at the Ligand Periphery: A Direct Correlation with the Hammett Constant of the Substituents, 2257

DIARYLHEPTANOID

A Diarylheptanoid Intermediate in the Biosynthesis of Phenylphenalenones in *Anigozanthos preissii*, 525

DIARYLOCTADIENE

Stepwise but Potentially Stereoselective Intramolecular [2 + 2] Cycloaddition of 2,6-Diarylocta-1,6-dienes *via* a 1,4-Cation Radical Intermediate, 521

DIASTERESELECTIVITY

Diastereoselective Radical Addition to Methyleneoxazolidinones: an Enantioselective Route to α -Amino Acids, 549

A Stereoselective and Preparative Entry to 1,2-Anhydrosugars through Oxidation of Glycals with Perfluoro-*cis*-2,3-dialkyloxaziridines, 901

DIAZABICYCLONONENE

A New Reaction Involving 1,5-Diazabicyclo[4.3.0]non-5-ene as a Nucleophile and a Two Proton Donor, 2339

DIAZABICYCLOUNDECANE

An Unprecedented DBU-MeOH Promoted One-pot γ -Arylidation of Cyclic β -Ketoesters by a Directed γ -Aldol Reaction and Dehydration Sequence, 33

DIAZABICYCLOUNDECENE

Michael-type Addition of 1,8-Diazabicyclo[5.4.0]undec-7-ene to Dimethyl Acetylenedicarboxylate, 2251

DIAZEPINE

Gas-phase Pyrolysis of 2,3-Dihydro-1,4-diazepines: Involvement of the Saturated Portion of the Ring in Chemical Reactions and Novel *cis-trans* Isomerisation of a Fused Ring System, 2337

DIAZO COUPLING

Diazo-coupling Reactions of Cycloheptatrienols: a Combined Experimental and Theoretical Study, 175

DIAZO TRANSFER

Diazo Transfer Reaction of 2-(Trimethylsilyl)-1,3-dithiane with Tosyl Azide. Reactivity of Transient 2-Diazo-1,3-dithiane, 1999

DIAZOMETHANE

Rationale for Predominance of 1,3-Dipolar Cycloreversion in Thermolysis of 3,4-Dihydropyrazole from Ethano-bridged Diphenyldiazomethane and 2,5-Dimethyl-1,4-benzoquinone. An X-Ray Study, 1937

DIAZONIUM

The Diazonium Group: an Electron Acceptor for Large Molecular Hyperpolarizabilities, 635

DIBENZAZEPINE

Tetrabutylammonium Salts of Carbazole and Dibenzazepine: Synthesis, Crystal Structures and Use in Anionic Polymerization, 275

DIBENZODIAZOCINE

Vilsmeier Formylation of *para*-Substituted *tert*-Anilines Results in Dibenzo[1,5]diazocines or Quinazolinium salts: a Remarkable Example of the '*t*-Amino Effect', 1463

DIBENZODIOXAPHOSHEPIN

Direct NMR Observation of Atropisomerism of a Bisphosphite Dibenzo[d,f][1,3,2]dioxaphosphin Moiety, 1805

DIBORONIC ACID

Synthesis of Sugar-containing Polymers by Self-condensation with Diboronic Acid, 153

DICARBAHEXABORANE

Re-identification of the Major Volatile Carbaboranes from the Gas-phase Reactions of Tetraborane(10) and Alkynes at 50 °C, 667

DICARBONYL

Direct Fluorination of 1,3-Dicarbonyl Compounds, 21

DICHLORODICYANOBENZOQUINONE

Direct Observation of Ion Pair Formation between 2,3-Dichloro-5,6-dicyanobenzoquinone Dianion and Sodium Ion, 1909

DICHLOROKETENE

Diastereoselective [2 + 2] Cycloaddition of Dichloroketene with α -Oxyaldehydes and α -Amino Aldehydes, 1735

DICHLOROMETHANE

Efficient Dimethyl Malonate Synthesis by Methoxycarbonylation of Dichloromethane catalysed by Electrogenerated [Co(CO)₃PBu₃]⁻ Species, 847

DIDEHYDROAZEPINE

Formation of Bicyclic Azepines by Intramolecular Trapping of Didehydroazepines, 1255

DIELS-ALDER

A Green Fullerene: Synthesis and Electrochemistry of a Diels-Alder Adduct of [60]Fullerene with a Phthalocyanine, 103

Phenylsulfanyl selenenylchloride (PhSO₂SeCl): A New Reagent for the Formation of C-Se and N-Se Bonds. Generation and *In Situ* Diels-Alder Reaction of Selenonitrosoarene Intermediates (Ar-N=Se), 195

Access to an Optically Pure Cyclosarkomycin by Conversion of the *Endo* Adduct of (*R*)-Allene 1,3-Dicarboxylate and Cyclopentadiene, 453

Dihydrothiopyran-fused [60]Fullerene from Hetero-Diels-Alder

Reaction with Thioacrylamide and Acyl Chloride, 565

First Example of an Antibody-catalysed Hetero-Diels-Alder Reaction, 571

Intramolecular Diels-Alder Reaction of New Building Blocks, *N*-Substituted 3,5-Dihydro-1*H*-thieno[3,4-*c*]-pyrrole *S,S*-Dioxides; a General Route to the Tricyclic Azanorbomane Framework, 807

Importance of Steric Effects in the [4 + 2] Cycloaddition of 5-Substituted Pentamethylcyclopentadienes, 839

Corrigendum: Synthesis of 3-Vinylisoxazole by a Nitrile Oxide Cycloaddition/Diels-Alder Cycloreversion Pathway, 911

Control of Regioselectivity in the Diels-Alder Reactions of Alkyl-substituted 1,4-Benzoquinones by β -Cyclodextrin and its Derivatives, 971

Homogeneous Catalysis: Use of Chiral Titanocene Complexes for Asymmetric Catalytic Diels-Alder Reactions, 1181

Asymmetric Diels-Alder Reactions of TMHD-acrylate using TiCl₄-(Ar_nHg)_m Complexed Lewis Acids, 1271

Enzymatic Activity Catalysing *Exo*-selective Diels-Alder Reaction in Solanapyrone Biosynthesis, 1321

Importance of Electronic and Nuclear Polarization Energy on Distereofacial Selectivity of Diels-Alder Reactions in Aqueous Solution, 1371

Palladium-complex-promoted Asymmetric Diels-Alder Reaction: Stereoselective Synthesis of a New Sulfinyl-substituted Phosphine Ligand containing Three Carbon, One Phosphorus and One Sulfur Stereogenic Centres, 1747

Chiral 2-Alkoxy-1,3-butadienes: Synthesis and Face-Selectivity in Diels-Alder Reactions, 1785

Theoretical Approach and First Examples of *N*-Acyl-Thioformamides as Dienophiles in the Diels-Alder Reaction, 1897

A Novel Approach to Functionalized Polycyclic Systems; New Aspects of the Diels-Alder Reactions of 2-Acyl Derivative of 4*H*, 6*H*-Thieno[3,4-*c*]furan 5,5-Dioxide, 2025

4,5-Dicyanopyridazine: a 1,2-Diazine Superheterodiene for [4 + 2] Cycloaddition Reactions, 2201

A Novel Route to Ladder-type Structures based on Hemiporphyrazines, 2449

Synthesis of Furan-, Thiophene- and Pyrrole-fused Sultines and their Application in Diels-Alder Reactions, 2537

DIENE

Importance of Steric Effects in the [4 + 2] Cycloaddition of 5-Substituted Pentamethylcyclopentadienes, 839

The Construction of 1,3-Dienes Containing an *E*-Double Bond and an *exo*-Methylene Group, 1497

Selective Hydrogenations of Dienes and Olefins by [W₂(OCH₂Bu)₆(py)₂], 1599

DIENOL

Studies towards the Synthesis of FR-900848: Stereoselective Preparation of *anti*-Bicyclopropane Derivatives, 355

DIENOPHILE

4,5-Dicyanopyridazine: a 1,2-Diazine Superheterodiene for [4 + 2] Cycloaddition Reactions, 2201

DIEPOXIDE

An Unusual Rearrangement of a Diepoxide, 629

DIEPOXYANNULENONE

Diepoxy[15]annulenes undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by ¹³C/¹⁷O NMR Spectroscopy, 1213

DIETHYLINDENE

Polynuclear Clusters of Fused-ring Hydrocarbons. The Synthesis and X-Ray Structure of [Os₄H(CO)₉(μ_3 - η^2 - η^2 - η^5 -C₁₃H₁₅)] (C₁₃H₁₅ = 1,3-diethylindanyl), 755

DIFFRACTION GRATING

Photolithographically defined Electropolymerized Films. Fabrication of an Electrochemically Switchable Diffraction Grating comprised of $\text{poly}-(\text{bpy})_2\text{Ru}(\text{vpy})_2^{2+}$, 1945

DIFFUSION

Closed-shell Ion Pair Aggregation in Non-Polar Solvents characterized by NMR Diffusion Measurements, 2513

DIFFUSION COEFFICIENT

NMR Diffusion Coefficients of *p*-*tert*-Butylcalix[*n*]arene Systems, 1183

DIFLUOROALKENE

Facile Syntheses of *gem*-Difluoroalkenes from Chlorodifluoromethylketones, 1857

DIFLUOROENOLATE

The Aldol Reaction with Difluoroenolates, 757

DIFLUOROMETHYLENE

The Conversion of Diaryl-1,3-Dithiolanes into *gem*-Difluoromethylene Compounds by a Combination of Elemental Fluorine and Iodine, 177

DIHYDROANGUSTINE

Regioselective Syntheses of the Indolopyridine Alkaloids Nauclefine, Angustine, Dihydroangustine and Nauclefine from a Common Intermediate, 1675

DIHYDROGEN PHOSPHATE

Remarkable Chloride over Dihydrogen Phosphate Anion Selectivity Exhibited by Novel Macrocyclic Bis[Ruthenium(II) Bipyridyl] and Ruthenium(II) Bipyridyl-Metalloocene Receptors, 2245

DIHYDROPYRIDINE

A Short Synthesis of *N*_(a)-Methylervitsine. Reactivity of the Intermediate 1,4-Dihydropyridine towards Electrophiles, 125

DIHYDROPYRROLE

Synthesis of (*S*)-3,4-Dihydro-2-pivaloyloxymethyl-2*H*-pyrrole 1-Oxide, 2097

DIHYDROQUINONE

Pummerer-type Rearrangement on Aromatic Rings: an Unprecedented *ipso*-Substitution of the Sulfinyl Group of *p*-Sulfinylphenyl Ethers into Oxygen Functional Groups leading to Protected Dihydroquinone Derivatives, 2319

DIHYDROTETROXAZOCINE

The Synthesis of Novel 3,4-Dihydro-1,2,5,7,4-tetroxazocine Derivatives via Extended [3 + 3 + 2] Cycloaddition Reactions between a Carbonyl Oxide, a Nitron and an Aldehyde, 1469

DIHYDROTHIOPHENE

A Novel Highly Diastereoselective Synthesis of Chiral Dihydrothiophenes from Mesoionic Compounds, 2213

DIHYDROXY HELIOTRIDANE

A Stereocontrolled Route to Both Enantiomers of the Necine Base Dihydroxyheliotridane via Intramolecular 1,3-Dipolar Addition Using the Same Chiral Precursor, 2291

DIIMINE

Metal-to-ligand Charge Transfer Photochemistry: Potential Energy Curves for the Homolysis of the Model System HMn(CO)₃(α -diimine), 1427

DIKETONE

Dialkylation of α -Diketone Ketals with 1,8-Bis(trimethylsilyl)octa-2,6-diene, 1847

DIKETONE DIKETAL

Stereoselective Allylsilane Additions to α -Diketone Diketals, 607

DILITHIODISILAIISOINDOLINE

Generation and Trapping of 1,3-Dilithio-1,3-disila-isoidolines, the First Example of Dianions of Functionalized Silanes, 2079

DIMESITYLFLUOROBORANE

Novel Boron-Nitrogen Containing Compounds from the Reaction of Organolithiums with Complexes between Dimesitylfluoroborane and Six- or Five-membered Aza Aromatic Compounds, 2069

DIMESITYLPHENYLBORANE DIANION

Generation and Characterisation of Dimesitylphenylborane Dianions, 233

DIMETHOXYBENZON

New Photolabile Amino Protecting Groups: Photogeneration of Amines from [(3',5'-Dimethoxybenzoinyl)oxy]carbonyl Carbamates, 923

DIMETHYL SULFOXIDE

An Alkali Metal Phenoxide with an Unusual Dimeric Crystal Structure: [Na(OC₆H₃But-2,6)(μ -Me₂SO)(Me₂SO)]₂, 421
Comparisons of Activation Energies for Dimethyl Sulfoxide Rotations in the Inner Phase of Seven Carcerands, 1259

DIMETHYLDIPHENYLSILANE

Photoinduced Intramolecular Charge Transfer in 4-Donor, 4'-Acceptor Substituted Dimethyldiphenylsilanes, 35

DIMORPHECOLIC ACID

Synthesis of β -Dimorphecolic Acid exploiting Highly Stereoselective Reduction of a Side-chain Carbonyl Group in a π -Allyltricarboxyliron Lactone Complex, 1751

DINOFLAGELLATE

Identification of DTX-4, a New Water-soluble Phosphatase Inhibitor from the Toxic Dinoflagellate *Prorocentrum lima*, 597

DINOPHYSIS

Biosynthetic Studies of the DSP Toxin DTX-4 and an Okadaic Acid Diol Ester, 1623

DINOPHYSISTOXIN-4

Identification of DTX-4, a New Water-soluble Phosphatase Inhibitor from the Toxic Dinoflagellate *Prorocentrum lima*, 597

DIODE ARRAY UV

Diode-array UV Spectrometric Evidence for a Concentration Dependent Phase Transition in Dilute Aqueous Solutions of Pluronic F87 (Poloxamer 237), 1843

DIOL

Enantioselective Bacterial Biotransformation Routes to *cis*-Diol Metabolites of Monosubstituted Benzenes, Naphthalene and Benzocycloalkenes of Either Absolute Configuration, 117

Synthesis of Sugar Episulfides and Olefins from *vic*-Diols via Cyclic Sulfates, 461

Highly Selective Monotetrahydropyranation of Symmetrical Diols Catalysed by a Strongly Acidic Ion-exchange Resin, 2491

DIORGANOPHOSPHIDE

A Mixed Organozinc-Diorganophosphide Complex containing Protic Phosphine Ligands Bonded to Zinc, 1989

DIOXABICYCLODECANE

Dialkylation of α -Diketone Ketals with 1,8-Bis(trimethylsilyl)octa-2,6-diene, 1847

DIOXAZINE

1,4,2-Dioxazines or *N*-Acyl Isoxazolidines from Organoselenium-induced Cyclisation of *O*-Allyl Hydroxamic Acids, 237

DIOXETANE

Thermal Stability and Chemiluminescence of 3-Alkoxy-3-aryl-4,4-diisopropyl-1,2-dioxetanes, 431

DIOXIDE

Acid Enhancement Effect in the Clean Oxidation of Toluene Photocatalysed by TiO₂, 1119

DIOXINE

An Unusual Rearrangement of a Diepoxide, 629

DIOXIRANE

Use of Dioxiranes for the Chemoselective Oxidation of Tertiary Amines bearing Alkene Moieties, 293

Induced Homolysis of Dimethyldioxirane by Alkanes and Alkyl Radicals in Oxidation Processes. The Dramatic Role of Molecular Oxygen and Radical Inhibitors, 1573

Formation of Singlet Oxygen in the Deoxygenation of Heteroarene *N*-Oxides by Dimethyldioxirane, 1831

DIOXOLANE

Approaches to the Assembly of the Antifungal Agent FR-900848: Studies on the Synthesis of C₂ Symmetric Tetracyclopropane Derivatives and an X-Ray Crystallographic Study of (1*R*,3*S*,4*S*,6*R*)-Bicyclopropyl-1,6-di-[(4*R*,5*R*)-di-(isopropoxy)carbonyl]-1,3-dioxolane], 407

Reaction of Sodium Alkoxides with [60]Fullerene: Formation of a 1,3-Dioxolane Derivative and Involvement of O₂ in a Nucleophilic Addition Reaction of C₆₀, 1071

DIPHENYL SULFOXIDE

Regioselective *ortho* Substitution of Diphenyl Sulfoxide Chromium Tricarbonyl: Complementary Stereoselectivities for the Mono- and Di-anions, 817

DIPHENYLDIAZOMETHANE

Rationale for Predominance of 1,3-Dipolar Cycloreversion in Thermolysis of 3,4-Dihydropyrazole from Ethano-bridged Diphenyldiazomethane and 2,5-Dimethyl-1,4-benzoquinone. An X-Ray Study, 1937

DIPHENYLHYDRAZINE

Rhodium Catalysed Rearrangement of 1,2-Diphenylhydrazine to *o*-Semidine, 1177

DIPHOSPHACYCLOBUTADIENE

Synthesis of a Mononuclear $\eta^2(4e)$ -Bonded Phosphaalkyne Complex, Transformation into an η^4 -1,3-Diphosphacyclobutadiene Complex, 1125

DIPHOSPHATE

Chemoenzymatic Synthesis of Analogues of the Second Messenger Candidate Cyclic Adenosine 5'-Diphosphate Ribose, 1359

DIPHOSPHERE

Transition-metal Catalysed Metathesis of Phosphorus-Phosphorus Double Bonds, 2429

DIPHOSPHINE

Synthesis and Structure of the Cluster [triangulo-AgHg₂(μ -dppm)₃]³⁺ [dppm = bis(diphenylphosphino)methane], 131

(Diphenylphosphino)-biheteroaryls: the First Example of a New Class of Chiral Atropisomeric Chelating Diphosphine Ligands for Transition Metal Catalysed Stereoselective Reactions, 685

Effect of the Bite Angle of Diphosphine Ligands on Activity and Selectivity in the Nickel-catalysed Hydrocyanation of Styrene, 2177

DIRADICAL

Boron-centred Diradical Dianion: a New Triplet State Molecule, 1957

DIRIBONUCLEOTIDE

Synergetic Catalysis by Two Non-lanthanide Metal Ions for Hydrolysis of Diribonucleotides, 1221

Preparation and Study of Dinuclear Zinc(II) Complex for the Efficient Hydrolysis of the Phosphodiester Linkage in a Diribonucleotide, 1793

DISACCHARIDE

Reductive Cleavage as a Route to Carbohydrate Enolates. Applications to the Synthesis of C-Linked Disaccharides, 967

DISCOTIC

Synthesis of Triphenylene-based Porphyrinato Metal(II) Complexes which display Discotic Columnar Mesomorphism, 995
The Synthesis of Alkoxybromotriphenylenes: New Discotic Liquid Crystals and Valuable Precursors to 'Mixed Tail' Discotics, 1059

DISELENOXOPHOSPHORANE

2,4-Di-*tert*-butyl-6-piperidinophenyl as a Sterically and Electronically Stabilizing Group and X-Ray Analysis of the Corresponding Diselenoxophosphorane, 297

DISMUTATION

Dismutation of CFC-12 to CFC-13 over Chromia-Alumina Catalyst, 2377

DISPROPORTIONATION

Insertion of Vinylsilane into the Ruthenium-Silicon Bond—Direct Evidence for the Non-metallacarbene Mechanism of Silylalkene Disproportionation, 2003

DISSOCIATION

Dissociation of Platinum(II) Nucleobase Complexes—Evidence for a Three-path Mechanism *via* a Five-coordinative Intermediate, 1759
Associative Substitution Mechanisms of Clusters: the Relationship between Sites of Nucleophilic Attack and Leaving Group Dissociation, 1905

DISULFIDE

Synthesis of a 'Head-to-tail' Type Cyclodextrin Dimer Linked by a Disulfide Bridge, 581

A Simple Method for the Preparation of 1,3-Dithiol-2-ones, 1429

DITERPENE

Corrigendum: Structure and Stereochemistry of Taxuchin A, a New 11(15 → 1) *Abco*-Taxane Type Diterpene from *Taxus Chinensis*, 1093

DITHIADIAZOLYL

The First Solid State Paramagnetic 1,2,3,5-Dithiadiazolyl Radical; X-Ray Crystal Structure of $[p\text{-NCC}_6\text{F}_4\text{CNSSN}]^{\cdot-}$, 679

DITHIAFULVENE

Preparation and Properties of Bis[5-(6-methyl-1,4-dithiafulven-6-yl)-2-thienyl]methanes affording Near-infrared Absorbing Cations by Oxidation, 557

DITHIAFULVENYL

Oxidative Intramolecular Cyclization of 2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls affording Novel Bis(1,3-dithiole) Electron Donors, 1761

DITHIANE

Diazo Transfer Reaction of 2-(Trimethylsilyl)-1,3-dithiane with Tosyl Azide. Reactivity of Transient 2-Diazo-1,3-dithiane, 1999

DITHIANE OXIDE

Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409

DITHIAZOLIUM

3,1-Benzoxazin-4-ones, 3,1-Benzothiazin-4-ones and *N*-Arylcyanothioformamides, 1419

DITHIENYLETHYLENE

Electrogenerated Small Bandgap π -Conjugated Polymers derived from Substituted Dithienylethylenes, 2309

DITHIOACETAL

Enantioselective Oxidation of 1,3-Dithioacetals Catalysed by Cyclohexanone Monooxygenase, 1123

DITHIOETHER

Unique Structural Features in Silver(I) Dithioether Complexes: the Single-crystal Structures of $[\text{Ag}_n(\text{PhSCH}_2\text{CH}_2\text{CH}_2\text{SPh})_{2n}]^+(\text{BF}_4)_n \cdot 0.5n\text{H}_2\text{O}$ and $[\text{Ag}_n(\text{MeSCH}_2\text{CH}_2\text{CH}_2\text{SMe})_n](\text{BF}_4)_n$, 1277

DITHIOLANE

The Conversion of Diaryl-1,3-Dithiolanes into *gem*-Difluoromethylene Compounds by a Combination of Elemental Fluorine and Iodine, 177

S-S Bond Cleavage of Polymerization Resistant 1,2-Dithiolanes by Acetylides: Intrinsic Reactivity of Enzyme-bound Lipoic Acid toward Stable, Localized Carbanions, 1763

DITHIOLENE

New Neutral Nickel Dithiolene Complexes derived from 1,3-Dialkylimidazolidine-2,4,5-trithione, showing Remarkable Near-IR Absorption, 371

DITHIOLONE

A Simple Method for the Preparation of 1,3-Dithiol-2-ones, 1429

DIVINYL METHANOL

Kinetic Resolution of Unsymmetrical Divinyl Methanols using Modified Sharpless Reagents, 2389

DIYNE

Dehydrosulfonylation of Conjugated Enyne Sulfones: Convenient Synthesis of Diyne Compounds, 583

Ruthenium-catalysed Cyclocarbonylation of 1,1'-Bis(silylethynyl)-ferrocene involving the 1,2-Migration of a Silyl Group, 2267

DNA

Methylene Blue Intercalates with Triplex Poly(dT)*Poly(dA)·Poly(dT) but not Duplex Poly(dA)·Poly(dT), 53

Ethylenediamine-oligo DNA Hybrid as Sequence-selective Artificial Ribonuclease, 77

DNA Cleavage by a 'Metalloporphyrin-spermine-oligonucleotide' Molecule, 181

2-(3-Methylthiopropyl)-1*H*-benz[*d,e*]isoquinoline-1,3(2*H*)-dione Derivatives as Novel Photo-induced DNA Cleavers, 311

Interaction of a Luminescent Platinum(II) Complex of Substituted 2,2'-Bipyridine with DNA. Spectroscopic and Photophysical Studies, 509

Migration of Photoinduced Oxidative Damage in Models for DNA, 653

Corrigendum: Photolytic Cleavage of DNA by $[\text{Au}_3(\text{dmmp})_2]^{3+}$, 801
A Homogeneous Solution Method for the Detection of Point Mutations in DNA, 1107

Conformational Flexibility of Dihydropyrimidinone and Tetrahydropyrimidine-2,4-dione Rings in DNA Bases, 1539

Novel Nucleotide Bases for DNA Duplex Recognition by Triple Helix Formation, 1589

Novel Luminescent Cyclometalated and Terpyridine Gold(III) Complexes and its DNA Binding Studies, 1787

Towards Selective DNA Targeting: Synthesis of an Antibody-Macrocyclic-Intercalator Conjugate, 1879

A Topological Rubber Glove obtained from a Synthetic Single-stranded DNA Molecule, 2249

DNA BINDING

Synthesis, Photophysical Properties and DNA Binding Studies of Novel Luminescent Rhenium(I) Complexes. X-Ray Crystal Structure of $[\text{Re}(\text{dppn})(\text{CO})_3(\text{py})](\text{OTf})$, 1191

DNA CLEAVAGE

Ambient Oxygen Activating Water Soluble Cobalt-Salen Complex for DNA Cleavage, 2489

DNA POLYMERASE

Facile Formation of a *cis*-Platin-Nonapeptide Complex of Human DNA Polymerase- α Origin, 1731

DODECABORATE

Oxygen in an Electron-deficient Borane Skeleton: the Oxa-*nido*-dodecaborate Anion $[\text{OB}_{11}\text{H}_{12}]^-$, 1663

DONOR

Novel Molecular Conductors, $(\text{DIETS})_4\text{M}(\text{CN})_4$ ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$): Highly Reticulated Donor...Anion Contacts by $-\text{I}\cdots\text{NC}-$ Interaction, 1667

Syntheses of New Sensitizer-Donor Dyad Compounds with a Rigid Spacer, 2139

Cyclophanes with Self-recognising Components, 2541

DONOR-ACCEPTOR

Geometric and Electric Properties of the Donor-Acceptor Complex $\text{H}_3\text{N}-\text{BF}_3$, 113

[60]Fullerene and TCNQ Donor-Acceptor Crystals of Octakis-(dimethylamino)porphyrazine, 1703

Design of Organic Superstructure based on a Preorganised Donor-Acceptor Unit, 2193

DOPING

A Poly(3-methylthiophene) Diode based on a p-n Homojunction prepared by Combination of Electrochemical Cation Doping and Photochemical Anion Doping, 787

DOUBLE-BED CATALYST

Synthesis of 2-Methylpropan-1-ol-Methanol Mixtures from H_2 -CO Synthesis Gas over Double-bed Cs/Cu/ZnO/Cr₂O₃ and Cs/ZnO/Cr₂O₃ Catalysts, 2525

DSP

Biosynthetic Studies of the DSP Toxin DTX-4 and an Okadaic Acid Diol Ester, 1623

DUPLEX

Methylene Blue Intercalates with Triplex Poly(dT)*Poly(dA)·Poly(dT) but not Duplex Poly(dA)·Poly(dT), 53

DUPLEX RECOGNITION

Novel Nucleotide Bases for DNA Duplex Recognition by Triple Helix Formation, 1589

DYE

Novel Naphthoquinone Methide Dyes for Second-order Nonlinear Optical Materials, 969

Covalent Immobilisation of Solvatochromatic Dyes, 2445

DYNAMIC DISORDER

Dynamic Disorder in $[\text{Fe}_2\text{Os}(\text{CO})_{12}]$. Structural Evidence of the Metal Triangle Rotation, 1219

DYNAMIC NMR

Highly Twisted Substituted Arenes: X-Ray Structure and Dynamic ¹H NMR Spectra of 1,4-Dialkyl-2,3,5,6-tetrakis(alkylsulphonyl)-benzenes, 1357

DYNEMICIN

Corrigendum: Short Synthesis of the Dynemicin Core Structure: Unusual Bridgehead Enolate Reactivity, 605

E. COLI

Sulfoxides of High Enantiopurity from Bacterial Dioxxygenase-catalysed Oxidation, 119

E. COLI TRANSKETOLASE

Synthesis of Enantiomerically Pure α -Hydroxyaldehydes from the Corresponding α -Hydroxycarboxylic Acids: Novel Substrates for *Escherichia coli* Transketolase, 2475

ECDYSTEROID

Synthesis of Shidasterone and the Unambiguous Determination of its Configuration at C-22, 933

ELECTROACTIVITY

Host Molecules containing Electroactive Cavities obtained by the Molecular Assembly of Redox-active Ligands and Metal Ions, 1643

ELECTROCHEMICAL RECOGNITION

Selective Fluoride Recognition with Ferroceneboronic Acid, 333

An Efficient Synthesis of the First Electroactive Phosphorus-containing Bisferrocene Macrocycles, 585

ELECTROCHEMICAL REDUCTION

Remarkable Decrease in Overpotential of Oxalate Formation in Electrochemical CO₂ Reduction by a Metal-Sulfide Cluster, 1223

Poly(4,4'-dialkyl-2,2'-bithiazole-5,5'-diyl). New Electron-withdrawing π -Conjugated Polymers Consisting of Recurring Five-membered Rings, 1613

ELECTROCHEMISTRY

Novel Electrochemical Reactivity of Ni(cyclam)Br₂: Catalytic Carbon Dioxide Incorporation into Epoxides, 43

Synthesis, Structure and Electrochemistry of a Paramagnetic (1,4-Diazabutadiene)Thorium Complex, 579

Electrochemical-optical and -ESR Investigation of the Reaction between Oxygen and π -Neutral Radicals of Zn^{II}- and Fe^{II}-Protoverdohaem Dimethylester, 601

A New Electrosynthesis of 2,2-Dimethylchromenes from 2-(1-Bromo-1-methylethyl)benzofurans, 615

Selectivity in Redox-switched Calix[4]arene Cationophores:

Electrochemical Detection of a Conformational Change on Cation Binding, 675

Poly[*trans*-bis(3,4-ethylenedioxythiophene)vinylene]: A Low Band-gap Polymer with Rapid Redox Switching Capabilities between Conducting Transmissive and Insulating Absorptive States, 703

A Poly(3-methylthiophene) Diode based on a p-n Homojunction prepared by Combination of Electrochemical Cation Doping and Photochemical Anion Doping, 787

Corrigendum: Synthesis, Photophysics and Electrochemistry of a Novel Luminescent Organometallic Ruthenium(II)/Platinum(II) Binuclear Complex and its Ruthenium(II)/Dichloro-Platinum(II) and Palladium(II) Counterparts. X-Ray Crystal Structure of [Ru-(bpy)₂(μ -2,3-dpp)PtCl₂]²⁺ [2,3-dpp = 2,3-bis(2-pyridyl)pyrazine], 801

Efficient Dimethyl Malonate Synthesis by Methoxycarbonylation of Dichloromethane catalysed by Electrogenated [Co(CO)₃PBu₃]⁻ Species, 847

Electrochemical Generation of a New Type of Dioxygen Carrier Complex. Reversible Fixation of Dioxygen by the Highly Electron-deficient Two-electron Oxidized Derivative of a Dicobalt Face-to-face Diporphyrin, 1441

Optical Switching of the Redox Activity of a Hydroxychromene, 1695

Electrochemical Detection of Saccharides by the Redox Cycle of a Chiral Ferrocenylboronic Acid Derivative: a Novel Method for Sugar Sensing, 1771

The Effect of Ultrasound on Mass Transport to a Microelectrode, 1807

Reversible Electrochemical Insertion of Lithium Ions into Graphite in LiClO₄-Propylene Carbonate Electrolyte, 1867

Access to Stabilized Silyl Anions by Electroreduction of Chlorosilanes, 2107

Redox Behaviour of the Oxo-bridged Diruthenium(III) Complex, [Ru₂(μ -O)(μ -MeCO₂)₂(bpy)₂(mim)₂]²⁺ in Acetonitrile in the Presence of Various Proton Donors (bpy = 2,2'-bipyridine, mim = 1-methylimidazole), 2125

Structural and Electrochemical Characterization of the Products of the C₆₀-Piperazine Reaction, 2287

New Electrochemical Synthesis of Ketones from Organic Halides and Carbon Monoxide, 2331

Nickel-catalysed Electrochemical Reductive Deprotection of Allyl Ethers, 2497

ELECTROCYCLISATION

Generation of an *o*-Xylylene: Electrocyclization of 1,2-Bis(1-phenylvinyl)benzene promoted by Photoinduced Electron Transfer, 1749

ELECTRODE

An Organic-phase Enzyme Electrode based on an Apparent Direct Electron Transfer between a Graphite Electrode and Immobilized Horseradish Peroxidase, 483

Direct Electron Transfer Reactions of Glucose Oxidase Immobilised at a Self-assembled Monolayer, 1293

ELECTRODIALYSIS

Anion Exchange Membranes for Nitrate Ion Removal from Groundwater by Electrodialysis, 1153

ELECTROLYSIS

Generation of Acyl Anion Equivalents by *In Situ* Cathodic Reduction of Acyl Tributylphosphonium Ions Anodically Generated from Tributylphosphine and Carboxylic Acids: Preparation of α -Hydroxy Cycloalkanones from Keto Acids, 871

An Intramolecular W-H...O=C Hydrogen Bond? Electrosynthesis and X-Ray Crystallographic Structure of [WH₃(η ¹-OCOMe)-(Ph₂PCH₂CH₂PPh₂)₂], 1569

Direct Observation of Ion Pair Formation between 2,3-Dichloro-5,6-dicyanobenzoquinone Dianion and Sodium Ion, 1909

ELECTRON DISTRIBUTION

Electron Distribution in *tert*-Butyl Phosphaethyne Bu^tC \equiv P, 505

ELECTRON TRANSFER

Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-*c*]pyrrole-1,4-dione, 303

Thermal Control over the Extent of Photoinduced Electron Transfer in Helical Oligopeptides, 313

Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 447

Stepwise but Potentially Stereoselective Intramolecular [2 + 2] Cycloaddition of 2,6-Diarylocta-1,6-dienes *via* a 1,4-Cation Radical Intermediate, 521

Relationship Between Electron Transfer and the Structure of a Quinone-linked Zinc Porphyrin with a Flexible Peptide Spacer, 545

An Electron-transfer Induced Reaction Path Controlled by Ion-pair Formation: an ESR/ENDOR Study of Furan Carbaldehydes and their Reactivity, 803

Novel Copper(II)-mediated Photocyclization of Methoxynaphthyl Analogues of Chalcone: Unusual Electron Transfer from Excited Vinyl Arenes, 957

Sugar-controlled Association and Photoinduced Electron Transfer in Boronic-acid-appended Porphyrins, 961

Triplex Promoted Intersystem Crossing of Ion-Radical pairs in the Photosensitized Valence Isomerization of Quadricyclane: Chemically Induced Dynamic Nuclear Polarization (CIDNP) Evidence, 1055

Porphyrin-Quinone Supramolecule with Two Coordination Bonds, 1133

Corrigendum: Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 1195

Direct Electron Transfer Reactions of Glucose Oxidase Immobilised at a Self-assembled Monolayer, 1293

Electronic Communication and Switching between two Iron Atoms across the Phenanthrene-Dihydrophenanthrene Bridging Ligands, 1565

Generation of an *o*-Xylylene: Electrocyclization of 1,2-Bis(1-phenylvinyl)benzene promoted by Photoinduced Electron Transfer, 1749

Electron Transfer from Tetracarbonylrhodate(1-) to Nitro Aromatics: Novel Interaction of Nitro Radical Anions with a Rhodium(I) Centre, 2441

Pronounced Effects of Ring Tilting on the Intramolecular Electron-transfer Rate in Mixed-valence Polyalkyl-substituted Biferrocenium Cations, 2453

Photoinduced Electron Transfer from Zinc Porphyrin to a Linked Quinone in Myoglobin, 2503

ELECTRONIC EFFECT

A Crystallographic Map of Chiral Recognition in π Complexes of Aromatic Aldehydes and a Chiral Transition Metal Lewis Acid: Enantioface Binding Selectivities in Solution Correlate to Distances between Metal and Carbon Stereocentres in the Solid State, 279

ELECTROPHORESIS

Chiral Discrimination in Capillary Electrophoresis using Novel Anionic Surfactants related to Cysteine, 1575

ELECTROPOLYMERISATION

Synthesis and Electropolymerization of Terthienyl Carrying a Photochromic Group, 471

Poly[*trans*-bis(3,4-ethylenedioxythiophene)vinylene]: A Low Band-gap Polymer with Rapid Redox Switching Capabilities between Conducting Transmissive and Insulating Absorptive States, 703

A New Polythiophene Prepared by the Electropolymerization of a Branched Sexithienyl, 815

Conformational Effects on Electrical and Spectroscopic Properties of Bi-, Ter-, and Poly-thiophenes, 881

Photolithographically defined Electropolymerized Films. Fabrication of an Electrochemically Switchable Diffraction Grating comprised of *poly*-(bpy)₂Ru(vpy)₂²⁺, 1945

Electrogenated Small Bandgap π -Conjugated Polymers derived from Substituted Dithienylethylenes, 2309

ELECTROSPRAY

The First Evidence for Triple Cation Binding by Multi-ring Macrocyclic Polyethers: An Electrospray Ionization Mass Spectral Study, 641

Electrospray Tandem Mass Spectrometry of Polyoxoanions, 877

Identification of Zinc and Cadmium Complexes of the Mycotoxin Sporidesmin A by Electrospray Mass Spectrometry, 889

Characterization by Electrospray Ionization (ESI) Mass Spectrometry of an Oligomeric, Anionic Thiomalato-silver(I) Complex showing *Biological Activity*, 1679

Electrospray Mass Spectrometry of Neutral Metal Carbonyl Complexes using Silver(I) Ions for Ionisation, 2531

ELIMINATION

Highly Regio- and Stereo-selective Annulation-Elimination Reactions of 1-Cycloalkenyl 3-Hydroxypropyl Ethers, 1117

An Alkylphosphonyl Nucleophilic Substitution Reaction that proceeds by an Elimination-Addition Mechanism with an Alkylideneoxophosphorane (Phosphene) Intermediate, 1701

ELLAGITANNIN

Rhoipteleanins A and E, Dimeric Ellagitannins formed by Intermolecular C-C Oxidative Coupling from *Rhoiptelea chiliantha*, 1467

ELLIPTICINE

Palladium-catalysed Tandem Cyclisation-Cross-coupling Reaction with Triethyl-(1-methylindol-2-yl)borate, 409

ENAMIDE

Ruthenium Complex-catalysed Addition of *N*-Aryl substituted Amides to Alkynes: Novel Synthesis of Enamides, 413

Structure and Dynamics of Intermediates in Asymmetric Hydrogenation by Rhodium Complexes of (2-Methoxyphenyl)-*P*-phenyl-*P*-(2'-diphenylphosphino)ethylphosphine, 2469

ENANTIOMERIC PURITY

Chirality Preservation in Pyrrolinone Iron Tetracarbonyl Complexes - a Route to Enantiopure 5-Substituted Pyrrolinones, 617

A Simple *In Situ* ³¹P NMR Method for the Determination of the Enantiomeric Purity of Aromatic Substrates, 689

ENANTIOSELECTIVE RECOGNITION

Enantioselective Recognition of Histidine and Lysine Esters by Porphyrin Chiral Clefs and Detection of Amino Acid Conformations in the Bound State, 1925

ENANTIOSELECTIVE SYNTHESIS

Enantioselective Syntheses of (*S*)- and (*R*)-3-Hydroxypyrrolidin-2-ones via Lactate Dehydrogenase Catalysed Reductions of 4-Benzoyloxycarbonylamino-2-oxobutanoic Acid, 231

Synthesis of (*S*)-3,4-Dihydro-2-pivaloyloxymethyl-2*H*-pyrrole 1-Oxide, 2097

Asymmetric 9-(1'-Naphthyl)fluorenes: Enantioselective Synthesis, Determination of Absolute Configuration and Retention of Axial Chirality in the Fluorenyl Carbanions, 2509

ENANTIOSELECTIVITY

A Concise Enantioselective Synthesis of *N*-Morpholinophingosines from *D*-Aspartic Acid, 123

Access to an Optically Pure Cyclosarkomycin by Conversion of the *Endo* Adduct of (*R*)-Allene 1,3-Dicarboxylate and Cyclopentadiene, 453

Enantioselective Radical-mediated Reduction of α -Iodolactone using Tributyltin Hydride in the Presence of a Chiral Amine and a Lewis Acid, 481

Diastereoselective Radical Addition to Methyleneoxazolidinones: an Enantioselective Route to α -Amino Acids, 549

A Concise Asymmetric Synthesis of (-)-Anatoxin-a using an Enantioselective Enolisation Strategy, 831

Enantioselective Oxidation of 1,3-Dithioacetals Catalysed by Cyclohexanone Monooxygenase, 1123

High Enantioselectivity in the Reactions of (*R*)- and (*S*)-1-Phenylethylamine with 6^A-Deoxy-6^A-iodo- β -cyclodextrin, 1167

Metal-catalysed Enantiospecific Aerobic Oxidation of Cyclobutanones, 1247

The First Enantioselective Synthesis of Isoflavonoids: (*R*)- and (*S*)-Isoflavans, 1317

A Simple Approach to 1',1'*a*-Methano Carbocyclic Thymidine, 1345

1-(1-Naphthyl)ethylamine and Derivatives thereof as Chiral Modifiers in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt-Alumina, 1421

Enantioselective Synthesis of the (+)-*anti*-7,8-Dihydrodiol-9,10-epoxide of the Potent Carcinogen Benzo[*a*]pyrene, 1699

Concise Enantiocontrolled Synthesis of the *A*-Ring Precursor of Calcitriol from the Chiral Cyclohexadienone Synthone, 1951

Enantioselective Epoxidation of Unfunctionalized Alkenes by a Chiral Monooxoruthenium(IV) Complex [RuL(bpy)O]₂⁺ {L = 2,6-bis[(4*S*,7*R*)-7,8,8-trimethyl-4,5,6,7-tetrahydro-4,7-methanoindazol-2-yl]pyridine; bpy = 2,2'-bipyridine}, 2007

Enantioselective Binding of α -Amino Acids at Poly(L-glutamic acid)-functionalized Monolayer Surfaces, 2119

ENDOHEDRAL

Exohedral Derivatization of an Endohedral Metallofullerene Gd@C₈₂, 1343

ENDOR

An Electron-transfer Induced Reaction Path Controlled by Ion-pair Formation: an ESR/ENDOR Study of Furan Carbaldehydes and their Reactivity, 803

ENE HYDRAZONE

Novel Iridium Complexes of an Azine Diphosphine: Very Reactive Iridium(I) Species formed by a Unique Isomerisation of an Iridium(III) Hydride. A New Method of creating Coordinative Unsaturation, 865

ENEDIYNE

Towards Eneidyne Libraries: Cyclic Eneidyne *via* an Intramolecular Carbenoid Coupling Protocol, 1791

ENERGY TRANSFER

Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-*c*]pyrrole-1,4-dione, 303

ENOL

Reagent Control of Cram-type Selectivity in the Mukaiyama Aldol Catalysed by Supersilylating Agents, 2173

ENOLATE

Corrigendum: Short Synthesis of the Dynamycin Core Structure: Unusual Bridgehead Enolate Reactivity, 605

Reductive Cleavage as a Route to Carbohydrate Enolates.

Applications to the Synthesis of *C*-Linked Disaccharides, 967

Stereoselective Synthesis of α -Alkylated γ,δ -Unsaturated Amino Acids *via* Claisen Rearrangement of Chelated Enolates, 1991

A Zirconium Hydride Enolate from Carbonylation of the Alkyl Compound [Zr(C₅H₂(SiMe₃)₃-1,2,4)₂(Me)₂], 2017

ENOLISATION

A Concise Asymmetric Synthesis of (-)-Anatoxin-a using an Enantioselective Enolisation Strategy, 831

ENTHALPY

A Reassessment of the Isoinversion Principle, 357

ENYNE SULFONE

Dehydrosulfonylation of Conjugated Enyne Sulfones: Convenient Synthesis of Diyne Compounds, 583

ENZYMATIC ESTERIFICATION

Novel Stereoselective Syntheses of Chiral 2,6-Dideoxy-6,6,6-trifluoro Sugars *via* Enzymatic Resolution of Trifluoromethylated Propynyl Alcohol, 51

ENZYME

Large Activation of Serine Proteases by Pretreatment with Crown Ethers, 255

Catalytic Halogenation of Selected Organic Compounds Mimicking Vanadate-dependent Marine Metalloenzymes, 611

Optically Active (*S*)-Ketone- and (*R*)-Aldehyde-cyanohydrins *via* an (*R*)-Oxynitrilase-catalysed Transcyanation. Chemoenzymatic Syntheses of 2-Cyanotetrahydrofuran and 2-Cyanotetrahydropyran, 989

Chemical-Enzymatic Synthesis and Bioactivity of Mono-6-[Gal- β -1,4-GlcNAc- β -(1,6')-hexyl]amido-6-deoxy-cycloheptaamylose, 1019

Direct Electron Transfer Reactions of Glucose Oxidase Immobilised at a Self-assembled Monolayer, 1293

Substitution of the Methyl Groups with Ethyl groups at C-10 and C-15 of 2,3-Oxidosqualene halts the Enzymatic Reaction of Oxidosqualene-Lanosterol Cyclase at the Monocyclic Ring Stage, 2401

Indirect Enzymatic Phosphorylation: Preparation of Dihydroxyacetone Phosphate, 2505

ENZYME CATALYSIS

Enantioselective Bacterial Biotransformation Routes to *cis*-Diol Metabolites of Monosubstituted Benzenes, Naphthalene and Benzocycloalkenes of Either Absolute Configuration, 117

Sulfoxides of High Enantiopurity from Bacterial Dioxxygenase-catalysed Oxidation, 119

Mapping of the Functional Active Site of Baeyer-Villigerases by Substrate Engineering, 729

Enzymatic Activity Catalysing *Exo*-selective Diels-Alder Reaction in Solanapyrone Biosynthesis, 1321

ENZYME ELECTRODE

An Organic-phase Enzyme Electrode based on an Apparent Direct Electron Transfer between a Graphite Electrode and Immobilized Horseradish Peroxidase, 483

ENZYME IMMOBILISATION

Aldehyde-functionalized Ethoxysilanes as New Enzyme Immobilization Reagents, 2323

ENZYME MODEL

Synthesis of di- μ -oxo Manganese(III/IV) Complexes as Functional Models of *L. plantarum* Pseudo-catalase: Influence of Electronic and Steric Factors; Catalysis and Kinetics of Hydrogen Peroxide Disproportionation, 949

Control of the Regioselectivity of *N*-Nucleophile Addition to *N*-Carbonyl Protected Dehydroalanines: a Model for the Ammonia-lyase Enzymes, 1061

ENZYME OXIDATION

Application of Enzymic Baeyer-Villiger Oxidations of 2-Substituted Cycloalkanones to the Total Synthesis of (*R*)-(+)-Lipoic Acid, 1563

EPIBAKKENOLIDE-A

Cyclopentaannulation of Allyl Alcohols *via* a Radical Cyclisation Reaction. Total Synthesis of 4-Epibakkenolide-A, 469

EPIJUABIONE

Stereo- and Enantio-controlled Synthesis of (+)-Juvabione and (+)-Epijuvabione from (+)-Norcamphor, 2403

EPIOXAVITAMIN D

A Facile Stereoselective Route to a C/D-Ring Synthons for 20-Epi-22-oxavitamin D₃ Analogues, 1959

EPISULFIDE

Synthesis of Sugar Episulfides and Olefins from *vic*-Diols *via* Cyclic Sulfates, 461

EPOXIDATION

A New and Simple Method for the Preparation of Active Ti-β Zeolite Catalysts, 23

Novel Mesoporous Titania-Silica Aerogels Highly Active for the Selective Epoxidation of Cyclic Olefins, 163

Transition Metal Substituted Keggin Type Polyoxomolybdates as Bifunctional Catalysts for the Epoxidation of Alkenes by Molecular Oxygen, 171

Use of Dioxiranes for the Chemoselective Oxidation of Tertiary Amines bearing Alkene Moieties, 293

A New Titanium-Silica Catalyst for the Epoxidation of Non-functionalized Alkenes and Allylic Alcohols, 539

Total Synthesis of the Natural Goniodiol-8-monoacetate from Cinnamyl Alcohol, 743

A Stereoselective and Preparative Entry to 1,2-Anhydrosugars through Oxidation of Glycols with Perfluoro-*cis*-2,3-dialkyloxaziridines, 901

Direct Synthesis of Propene Oxide by using an EuCl₃ Catalytic System at Room Temperature, 1185

Hydroxy-assisted Chemo- and Stereo-selective Epoxidation Catalysed by a Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ System, 1315

Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Chemoselective Epoxidation of Alkenes with TBHP, 1341

Oxidation of [60]Fullerene by Cytochrome P450 Chemical Models, 1537

New TiF₄/SiO₂ Catalysts for Liquid-phase Epoxidations with Aqueous H₂O₂, 1775

Enantioselective Epoxidation of Unfunctionalized Alkenes by a Chiral Monooxoruthenium(IV) Complex [RuL(bpy)O]²⁺ {L = 2,6-bis[(4*S*,7*R*)-7,8,8-trimethyl-4,5,6,7-tetrahydro-4,7-methanoindazol-2-yl]pyridine; bpy = 2,2'-bipyridine}, 2007

Kinetic Resolution of Unsymmetrical Divinyl Methanols using Modified Sharpless Reagents, 2389

A Novel Dinuclear Ruthenium-1,8-Naphthyridine Catalyst for the Oxidation of Alcohols and the Epoxidation of Alkenes, 2465

Selective Epoxidation of α-Isophorone with Mesoporous Titania-Silica Aerogels and *tert*-Butyl Hydroperoxide, 2487

EPOXIDE

Novel Electrochemical Reactivity of Ni(cyclam)Br₂: Catalytic Carbon Dioxide Incorporation into Epoxides, 43

Allylic Alcohols by Methylene Transfer from *N*-Lithiomethyl-*N,N',N'',N'''*-tetramethyldiethylenetriamine to Epoxides, 513

Asymmetric Synthesis of Epoxides using Chiral Sulfoxides, 893

Ytterbium Triisopropoxide Catalysed Ring Opening of Epoxides with Trimethylsilyl Azide, 1021

EPOXPENTENOATE

The Reaction of Methyl (*E*)-4,5-Epoxy-pent-2-enoate with Arylcopper: the Unique Role of Boron Trifluoride in determining Regioselectivity, 2001

EPR

The Radical Cation from Hexamethyl(Dewar Benzene): Derived from a Substitution Product of Hexamethylbenzene?, 219

Generation and Characterisation of Dimesitylphenylborane Dianions, 233

Spectroscopic and Electrochemical Observation of Both 17- and 19-Electron States of an Inorganometallic Transition Metal Complex: [Fe^{III}(η⁵-C₅Me₅)(S₂CNMe₂)₂], 249

Electrochemical-optical and -ESR Investigation of the Reaction between Oxygen and π-Neutral Radicals of Zn^{II}- and Fe^{II}-Protoverdohaem Dimethylester, 601

Novel pH-Sensitive Nitroxide Di- and Tri-radical Spin Labels, 723

The EPR Spectrum and Structure of the Mixed Alkali Metal Trimer Cluster Na₂Li Prepared using a Rotating Cryostat, 775

An Electron-transfer Induced Reaction Path Controlled by Ion-pair Formation: an ESR/ENDOR Study of Furan Carbaldehydes and their Reactivity, 803

Synthesis of Mesoporous Manganosilicates: Mn-MCM-41, Mn-MCM-48 and Mn-MCM-L, 875

Novel Reactions of Nitric Oxide in Biological Systems, 915

Generation of Solutions of Highly Persistent Radical Cations by 4-Tolylthallium(III) Bis(trifluoroacetate) in 1,1,1,3,3,3-Hexafluoropropan-2-ol, 1131

Optical Absorption and EPR Studies on a Six-coordinate Iron(III)-tetramesitylporphyrin-Hydrogen Peroxide Complex Having a Nitrogenous Axial Ligand, 1507

NMR Studies of the Electronic Structure of Low-spin Iron(III) Phosphonite Complexes: Unusual (d_{xz}, d_{yz})⁴ (d_{xy})¹ Configuration, 2093

Valence-localised and Valence-delocalised Mixed-valence States; The Effect of the Substitution Pattern of 1,2-, 1,3- and 1,4-[C₆H₄(NH)₂]₂²⁻ as Bridging Ligands, 2397

Electron Transfer from Tetracarbonylrhodate(1-) to Nitro Aromatics: Novel Interaction of Nitro Radical Anions with a Rhodium(I) Centre, 2441

EQUILIBRIUM CONSTANT

On the Interpretation of Excited-state Decay Data for the Determination of the Equilibrium Constants in Compartmentalized Systems, 2433

ERVITSINE

A Short Synthesis of *N*_(a)-Methylervitsine. Reactivity of the Intermediate 1,4-Dihydropyridine towards Electrophiles, 125

ERYTHRODIENE

A Simple Total Synthesis of (±)-Spirojatamol and (±)-Erythrodiene *via* Intramolecular 1,3-Dipolar Cycloaddition, 955

ERYTHROMYCIN

A Mutant Generated by Expression of an Engineered DEBS1 Protein from the Erythromycin-producing Polyketide Synthase (PKS) in *Streptomyces coelicolor* Produces the Triketide as a Lactone, but the Major Product is the *nor*-Analogue Derived from Acetate as Starter Acid, 1517

The Thioesterase of the Erythromycin-producing Polyketide Synthase: Mechanistic Studies *in vitro* to Investigate its Mode of Action and Substrate Specificity, 1519

Conformational Analysis of the Erythromycin Analogues Azithromycin and Clarithromycin in Aqueous Solution and bound to Bacterial Ribosomes, 1653

ESIPT

Sub-picosecond Pump-probe Spectroscopy of ESIPT in 3-Hydroxyflavone, 2133

ESMS

Electrospray Tandem Mass Spectrometry of Polyoxoanions, 877

Identification of Zinc and Cadmium Complexes of the Mycotoxin Sporidesmin A by Electrospray Mass Spectrometry, 889

ESPERAMICIN

Synthetic Studies Related to the Esperamicin/Calicheamicin Glycone: Efficient Construction of a Homochiral Oxabicyclo [7:3:1] Analogue from *D*-Xylose, 799

ESTER

Anomalous Nitrations of α,β-Unsaturated Esters: a Role for α-Carbonyl Cations?, 559

Solvent Dependent Ester Elimination Reactions in the Preparation of Mixed-metal Oxo Clusters: the Synthesis of PbSn₂(μ₃-O)(OAc)₄(OAc)₄, 1041

Successive Electrocyclic Rearrangements Initiated by the Addition of a Lithiated Cyclopropanone Acetal to a Squarate Ester, 1351

Nucleophilic Substitution of (Alkoxyethylene)dimethylammonium Chloride with Carboxylate Salts: a Convenient Procedure for the Synthesis of Esters with Inversion of Configuration, 1403

ESTER ELIMINATION

Ester Elimination *Versus* Ligand Exchange: the Role of the Solvent in Tin-Oxo Cluster-building Reactions, 157

ESTER GROUP TRANSFER

Unprecedented Iridium Catalysed Group Transfer Reactions of 1,3-Thiazanes, 1199

ESTERASE

Cation-π Interaction between the Trimethylammonium Moiety and the Aromatic Ring within Indole-3-acetic Acid Choline Ester, a Model Compound for Molecular Recognition between Acetylcholine and its Esterase: an X-Ray Study, 2221

ESTEROLYSIS

High Esterolytic Activity of a Novel Water-soluble Polymer Catalyst Imprinted by a Transition-state Analogue, 2143

ETHANOL

Synthesis and X-Ray Crystal Structure of a New Redox-active Calix[5]arene Containing a Totally Included Ethanol Molecule, 1851

Complexation with Helical Molecules: Helical Crystal Structure of Bis(hydroxymethyl)[7]thiaheterohelicene-Ethanol Clathrate, 1873

ETHENE

Pre-reactive Intermediates in Mixtures of Hydrocarbons with Chlorine Monofluoride: Characterisation of Ethyne···ClF and Ethene···ClF by Rotational Spectroscopy, 1833

Adiabatic Two-way Isomerization of an Arylethene: an Observation of Extremely High Energy Barrier for Excited State *Z*-*E* Isomerization, 1837

ETHENYL

Prop-2-ynyl Alcohol as a Precursor to the η¹-Ethenyl Ligand, 1209

ETHER

Single-pot Synthesis of Methyl *tert*-Butyl Ether from *tert*-Butyl Alcohol and Methanol: Dodecatungstophosphoric Acid supported on Clay as an Efficient Catalyst, 203

Heterolytic C-O Cleavage in Arylethers Activated by [Fe(η⁵-C₅H₅)]⁺, 463

- Conversion of Thionoesters and Thionolactones to Ethers; a General and Efficient Radical Desulfurisation, 1583
- Chirality Inversion in HZSM-5 and Nafion-H Solid Acid-catalysed Synthesis of Ethers from Alcohols *via* Surface S_N2 Reaction, 1849
- Reagent Control of Cram-type Selectivity in the Mukaiyama Aldol Catalysed by Supersilylating Agents, 2173
- ETHOXYCARBONYLAZEPINE**
- Competing Pathways in the Photolytic Cycloaddition Reactions of *N*-Ethoxycarbonylazepine to [60]Fullerene: Formation of [2 + 4] and [2 + 6] Photoadducts, 1171
- ETHYL**
- The Reaction of [Ni(acac)₂] with Triethoxysilane in the Presence of PPh₃: a New Method for Synthesis of [Ni(acac)Et(PPh₃)], 717
- ETHYLENE**
- Single Crystal Structure of [(Me₂N-C₆H₄)₂C⁺-C(C₆H₄-NMMe₂)₂]⁻(I₃⁻)₂: a Twisted Tetraphenylethylene Dication with a C-C Single Bond, 1111
- ETHYLENE GLYCOL**
- Ethylene Oxide-mediated Reduction of CO₂ to CO and Ethylene Glycol catalysed by Ruthenium Complexes, 1489
- ETHYLENEDIAMINE**
- Directed Metallation of Adenine-N³ *via* Nucleobase-Ligand Conjugation, 2285
- ETHYNE**
- First Cobalt(I)-catalysed Heterocyclotrimerization of Ethyne with Nitriles to Pyridines in Water under Mild Conditions, 179
- Scission of Ethyne into Two Methylidyne Ligands: C≡C vs. C-H Bond Activation, 899
- Corrigendum*: Scission of Ethyne into Two Methylidyne Ligands: C≡C vs. C-H Bond Activation, 1309
- Pre-reactive Intermediates in Mixtures of Hydrocarbons with Chlorine Monofluoride: Characterisation of Ethyne···ClF and Ethene···ClF by Rotational Spectroscopy, 1833
- Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu-Mg-Al Hydrotalcite, 2057
- ETHYNE DIYL**
- Synthesis and Structure of *s-cis*- and *s-trans*- μ -Butadiene-2,3-diylplatinum Complexes by the Reaction of μ -Ethyne-diylplatinum Complexes with Tetracyanoethylene, 2095
- EUGLOBAL**
- Intermolecular Cycloaddition Reaction of Unactivated Alkenes and *o*-Quinone Methides generated by Electrochemical Oxidation: a Proposed Biomimetic Approach to the Euglobal Skeletons, 1381
- EUROPIUM**
- Catalytic Hydrolysis of Phosphate Monoesters by Lanthanide(III) Cryptate (2.2.1) Complexes, 575
- A Homogeneous Solution Method for the Detection of Point Mutations in DNA, 1107
- Direct Synthesis of Propene Oxide by using an EuCl₃ Catalytic System at Room Temperature, 1185
- MRI Contrast Agents: Macrocyclic Lanthanide(III) Complexes with Improved Relaxation Efficiency, 1885
- Calix[*n*]arene Phosphine Oxides. A New Series of Cation Receptors for Extraction of Europium, Thorium, Plutonium and Americium in Nuclear Waste Treatment, 2151
- The First Structurally Characterized and Strongly Luminescent Self-assembled Helical Heterodinuclear d-f Complex, 2575
- EXAFS**
- Catalytic Synthesis of Unsaturated Nitriles from NO-Alkane or NO-Alkene on Pt-Sn/SiO₂, 329
- [Ru₆(CO)₁₈]²⁻ in NaX Zeolite Cages: Characterization by EXAFS and FTIR Spectroscopy, 507
- The First Diferric Model Compound for the Uteroferrin-Arsenato Complex, 1305
- EXCHANGE INTERACTION**
- Metal-induced Conformational Changes in Calix[*n*]arenes can Change the Exchange Interaction between N-O· Radicals, 2121
- EXCITATION**
- Effect of Excitation on the Host-Guest Equilibrium Constants of Cyclodextrin Complexes, 199
- On the Interpretation of Excited-state Decay Data for the Determination of the Equilibrium Constants in Compartmentalized Systems, 2433
- EXCITED STATE**
- Comments on the Interpretation of Triplet Excited-state Decay Data for the Determination of the Equilibrium Constants in Host-Guest Cyclodextrin Complexes, 2435
- EXTRACTION**
- Decisive Role of a Phenyl Group at the α -Position of Benzoylacetone in the Solvent Extraction of Al³⁺ and In³⁺, 2271
- FACIAL SELECTIVITY**
- Singlet Oxygen Additions to Hexacyclo[10.2.1.0^{2,11}.0^{4,9}.0^{4,14}.0^{9,13}]-pentadeca-5,7-dien-3,10-diones. A Remarkable Substituent Effect on π -Face Selectivity Induced by Transition State Geometric Distortions, 677
- FAULTING**
- Postulated Mechanism for Faulting in Zeolite Beta, 343
- FEEDING EXPERIMENT**
- Biosynthetic Studies of Amphidinolide J: Explanation of the Generation of the Unusual Odd-numbered Macrocyclic Lactone, 1639
- FER ZEOLITE**
- A Layered Microporous Aluminosilicate Precursor of FER-type Zeolite, 2187
- FERRACARBORANE**
- Two Tetrathiafulvalene Salts of a New Thiophene-functionalised Ferracarborane: Electrical Conductivity as a Function of Crystal Composition, 997
- FERREDOXIN**
- Nitrogen-15 Detection of Broad Amide Protons in Paramagnetic Proteins, 105
- FERRIERITE**
- Use of Anomalous X-Ray Diffraction to Determine the Location of Sorbed Krypton in Ferrierite, 783
- FERROCENE**
- The Palladium(II) Coordination Chemistry of Ferrocenylphosphinobipyridines: a Novel *trans*-Chelating Ligand System, 459
- Heterolytic C-O Cleavage in Arylethers Activated by [Fe(η^5 -C₅H₅)]⁺, 463
- An Efficient Synthesis of the First Electroactive Phosphorus-containing Bisferrocene Macrocycles, 585
- A Liquid Crystalline Ferrocenyl-phthalocyanine, 1715
- Novel *ansa*-Ferrocenes with *o*-Phenylene-type Bridges by B-N Adduct Formation, 1765
- The Effect of Ultrasound on Mass Transport to a Microelectrode, 1807
- Synthesis and X-Ray Crystal Structure of a New Redox-active Calix[5]arene Containing a Totally Included Ethanol Molecule, 1851
- Syntheses of New Sensitizer-Donor Dyad Compounds with a Rigid Spacer, 2139
- Ruthenium-catalysed Cyclocarbonylation of 1,1'-Bis(silylethynyl)-ferrocene involving the 1,2-Migration of a Silyl Group, 2267
- FERROCENEBORONIC ACID**
- Selective Fluoride Recognition with Ferroceneboronic Acid, 333
- FERROCENIUM**
- Pronounced Effects of Ring Tilting on the Intramolecular Electron-transfer Rate in Mixed-valence Polyalkyl-substituted Biferrocenium Cations, 2453
- FERROCENOPHANE**
- Platinum- or Palladium-catalysed Ring-opening Homo- and Copolymerization of Silicon- and Germanium-bridged [1]-Ferrocenophanes, 2263
- FERROCENYL**
- Thermodynamics of Benzylic C-H Activation in 18- and 19-Electron Iron Sandwich Complexes: Determination of pK_a values and Bond Dissociation Energies, 7
- Host Molecules containing Electroactive Cavities obtained by the Molecular Assembly of Redox-active Ligands and Metal Ions, 1643
- FERROELECTRIC**
- Anomalous Enhancement of the Catalytic Activity of Ferroelectrics-combined Palladium by Resonance Oscillations, 2101
- FERROMAGNETISM**
- A Heptanuclear Cr^{III}Ni^{II}₆ Complex with a Low-lying S = 15/2 Ground State, 61
- Control of the Structural Dimensionality in Hydrogen-bonded Self-assemblies of Open-shell Molecules. Extension of Intermolecular Ferromagnetic Interactions in α -Phenyl Nitronyl Nitroxide Radicals into Three Dimensions, 709
- Coexistence of Intermolecular Ferromagnetic Interaction and [NHN]⁺ Hydrogen Bond in *N*-Protonated *m*-Pyridyl Nitronyl Nitroxide, 827
- FILM**
- Semiconducting Langmuir-Blodgett Films of Non-amphiphilic Ethylenedithio-Tetrathiafulvalene Derivatives Bearing Pyridine and Pyridinium Substituents, 475
- A Convenient Molecular Self-assembly Route to Thin Films containing Terminal Donor Ligands and Anchored Organotransition-metal Complexes for Heterogenized Homogeneous Catalysis, 1577
- Preparation of Thin Films with Well-defined Molecular Orientation of Chromophores by Polymerization of Liquid Crystalline Monomers in an Electric Field, 2195
- Layer-by-layer Architectures of Concanavalin A by means of Electrostatic and Biospecific Interactions, 2313
- FIRE SUPPRESSION**
- New Fire Suppression Mechanism of Perfluoroalkylamines, 1207
- FISCHER CARBENE**
- Stereoselective Cyclopropanation of 1-Azadienes with Fischer Carbene Complexes, 665
- FISCHER-TROPSCH**
- The Parallel between Phenyl-initiated C-C Coupling Reactions in Dirhodium Complexes and those Catalysed by Rhodium Particles, 1089

FLASH CHIRAL CHROMATOGRAPHY

Flash Chiral Chromatography using Carbohydrate Carbamate-coated Silica, 301

FLASH VACUUM PYROLYSISGas-phase Pyrolysis of 2,3-Dihydro-1,4-diazepines: Involvement of the Saturated Portion of the Ring in Chemical Reactions and Novel *cis-trans* Isomerisation of a Fused Ring System, 2337**FLASH VACUUM THERMOLYSIS**Cyclopent[fg]acepyrylene, Cyclopent[jk]acepyrylene and Cyclopent-[mn]acepyrylene: Novel C₂₀H₁₀ Cyclopenta-fused Polycyclic Aromatic Hydrocarbons, 2415**FLUORENYL**

Asymmetric 9-(1'-Naphthyl)fluorenes: Enantioselective Synthesis, Determination of Absolute Configuration and Retention of Axial Chirality in the Fluorenyl Carbanions, 2509

FLUORESCENCE

Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 447

Dansyl-modified β -Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721

Dual-mode Photoswitching of Luminescence, 1095

Porphyrin-Quinone Supramolecule with Two Coordination Bonds, 1133

Corrigendum: Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 1195

New Rigid Backbone Conjugated Organic Polymers with Large Fluorescence Quantum Yields, 1433

A Novel Cation 'AND' Anion Recognition Host Having Pyrrodo-[1',2':1,2]imidazo[4,5-*b*]pyrazine as the Fluorophore, 1491

Kinetic and Standard Thermodynamic Parameters of Photoinduced Charge Separation Reactions in a Bichromophoric Anthracene-containing Molecule from Time-resolved Fluorescence Measurements in Different Solvents and Solvent Mixtures and at Different Temperatures, 2171

FLUORIDE

Selective Fluoride Recognition with Ferroceneboronic Acid, 333

Synthesis and Structure of Ba₂InO₃F₂: Oxide/Fluoride Ordering in a New K₂NiF₄ Superstructure, 353

Observations on the Reaction of Xanthate Esters with 4-Methyl-(difluoriodo)benzene: a New Method for the Conversion of Alcohols to Alkyl Fluorides, 1241

Effect of Magnesium Fluoride in Chromium-Magnesium Catalysts on the Fluorination Reaction of 1,1,1-Trifluoro-2-chloroethane, 2383

FLUORIDE AMINO ACID

Efficient Acylation of Hydroxy Functions by Means of Fmoc Amino Acid Fluorides, 2223

FLUORINATION

Electrophilic Fluorination Using Elemental Fluorine, 17

Synthesis of a Novel Fluoro-tribactam utilising *N*-Fluorosulfonimide in the Key Step, 661

Hydrofluorination of Unsaturated Compounds with Solid Potassium Hydrogen Fluoride in the Presence of Silicon Tetrafluoride at Room Temperature, 1891

FLUORINE

Elemental Fluorine as an 'Enabler' for Generation of Powerful Electrophiles from Other Halogens, 19

Direct Fluorination of 1,3-Dicarbonyl Compounds, 21

The Conversion of Diaryl-1,3-Dithiolanes into *gem*-Difluoromethylene Compounds by a Combination of Elemental Fluorine and Iodine, 177

An Unusual Rearrangement of a Diepoxide, 629

Direct Syntheses of Pentakis(trifluoromethyl)cyclopentadienide Salts and Related Dienes, 841

P₃N₃F₅NPF₂NPF₂NPF₂²⁻: a Cyclophosphazene with a Phosphazene Side-chain Dianion by F⁻-induced Ring-opening of P₃N₃F₆, 1717¹⁹F to ¹H and ¹H to ¹⁹F Cross Polarization MAS NMR of Trifluoroethanol Chemisorbed on Magnesium Oxide, 1795

Pre-reactive Intermediates in Mixtures of Hydrocarbons with Chlorine Monofluoride: Characterisation of Ethyne... ClF and Ethene... ClF by Rotational Spectroscopy, 1833

An Unexpected Reaction Between B(C₆F₅)₃ and [Fe(η^5 -C₅H₅)-(CO)₂Me] Gives {[Fe- σ -C₆F₅(2-C(O)Me)(η^5 -C₅H₅)(CO)]}, 1853Reactions of Cyclotron-produced [¹⁸F]Fluoride with Diaryliodonium Salts—a Novel Single-step Route to No-carrier-added [¹⁸]-Fluoroarenes, 2215

Kinetic and Stereoelectronic Effects of a Fluorine Substituent on the Reaction Catalysed by an NADPH-Dependent Cyclohex-1-enylcarbonyl CoA Reductase, 2329

FLUORINE MIGRATION

Novel Ligand Transformations in Cluster Complexes. Activation of C-F Bonds in a Perfluorovinyliron(I) Complex by Primary and Secondary Amines, 1431

FLUOROCleavage of Both Alkyl C-H Bonds and Aryl C-F Bonds and Concomitant C-C Bond Formation in a Pentamethylcyclopentadienylrhodium Phosphine Complex: X-Ray Structure of [η^5 -C₅Me₅[CH₂C₆F₅P(C₆F₅)CH₂]₂-1,3]RhCl]⁺BF₄⁻, 191Monofluorophosphonates as Phosphate Mimics in Bioorganic Chemistry: a Comparative Study of CH₂, CHF- and CF₂-Phosphonate Analogues of *sn*-Glycerol-3-phosphate as Substrates for *sn*-Glycerol-3-phosphate Dehydrogenase, 719

The Aldol Reaction with Difluoroenolates, 757

The Gaseous Trifluorosilyl Xenon Cation, F₃SiXe⁺: a Stable Species with a Silicon-Xenon Bond, 773

New Fire Suppression Mechanism of Perfluoroalkylamines, 1207

F₂C=N⁺...S(F)⁻...N-CF₂⁻, a Cyclic Bis(imino)fluorosulfinate from an Unexpected Rearrangement, 1437Facile Syntheses of *gem*-Difluoroalkenes from

Chlorodifluoromethylketones, 1857

A Direct Introduction of Perfluorooctyl Group into Cycloalkanes using the Photolysis of Perfluoroazooctane upon 185 nm Irradiation, 2027

Photo-splitting of Water to Dihydrogen and Hydroxyl Radicals

Catalysed by Rhodium-deposited Perfluorinated Poly(*p*-phenylene), 2189**FLUORO SUGAR**Novel Stereoselective Syntheses of Chiral 2,6-Dideoxy-6,6,6-trifluoro Sugars *via* Enzymatic Resolution of Trifluoromethylated Propynyl Alcohol, 51**FLUOROARENE**Reactions of Cyclotron-produced [¹⁸F]Fluoride with Diaryliodonium Salts—a Novel Single-step Route to No-carrier-added [¹⁸]-Fluoroarenes, 2215**FLUOROCARBON**

Interconversion of Chlorofluorocarbons in Plasmas, 347

Dismutation of CFC-12 to CFC-13 over Chromia-Alumina Catalyst, 2377

FLUOROKETO ACIDEthyl 2-Benzyloxy-3,3-difluoropropenoate as a Novel Synthon of β -Fluoro- α -keto Acid Derivatives, Preparation and Reactions with Nucleophiles, 1969**FLUOROPYRROLE**Fluoro-decarboxylation of Pyrrolicarboxylic Acids by F-TEDA-BF₄—A Convenient General Synthesis of Fluoropyrroles, 2399**FLUOROSULFONIMIDE**Synthesis of a Novel Fluoro-tribactam utilising *N*-Fluorosulfonimide in the Key Step, 661**FLUXIONALITY**

Stereodynamics of Neutral Six-coordinate Silicon Chelates: Evidence for Two Non-dissociative Rate Processes, 1253

FORMATE

Methyl Formate Synthesis by Hydrogenation of Supercritical Carbon Dioxide in the Presence of Methanol, 707

FORMIC ACID

Electrophilic Fluorination Using Elemental Fluorine, 17

FORMYLATIONVilsmeier Formylation of *para*-Substituted *tert*-Anilines Results in Dibenzo[1,5]diazocines or Quinazolinium salts: a Remarkable Example of the '*t*-Amino Effect', 1463**FORSKOLIN**

Efficient Access to the 'Ziegler Intermediate' in the Total Synthesis of Forskolin, 1333

FR-900848Determination of the Full Structure and Absolute Stereochemistry of the Antifungal Agent FR-900848: an X-Ray Crystallographic Study of (1*R*,3*S*,4*R*,6*S*,7*S*,9*R*,10*S*,12*R*)-Quatercyclopropyl-1,12-dimethanedyl Di-4-bromobenzoate, 1143**FREE RADICAL**

Radical-chain Decomposition of Cyclohexa-1,4-diene-3-carboxylates and 2,5-Dihydrofuran-2-carboxylates, 27

A Synthetic Route to Allenylidene Tetrahydrofurans, 897

Free Radical Scavenging Activity of Water-soluble Fullerenols, 1283

Novel Intramolecular Radical Displacement Reactions of 2-Indolyl Aryl Sulfides and Sulfoxides, 1353

Hydroperoxides as Pseudohalides: Oxidation, Oxidative Alkylation, Acylation and Arylation of Acrylonitrile, 1399

Induced Homolysis of Dimethyldioxirane by Alkanes and Alkyl

Radicals in Oxidation Processes. The Dramatic Role of Molecular Oxygen and Radical Inhibitors, 1573

FRIEDEL-CRAFTS

Mesoporous Aluminosilicate MCM-41 as a Convenient Acid Catalyst for Friedel-Crafts Alkylation of a Bulky Aromatic Compound with Cinnamyl Alcohol, 519

C-C Bond Formation in Organoruthenium Complexes by Friedel-Crafts Reactions, 2019

Environmentally Friendly Catalysis using Supported Reagents:

Evolution of a Highly Active Form of Immobilised Aluminium Chloride, 2037

Syntheses of New Sensitizer-Donor Dyad Compounds with a Rigid Spacer, 2139

FRIES

The Catalytic Fries Rearrangement of Acyloxy Naphthalenes using Scandium Trifluoromethanesulfonate as a Catalyst, 1527

FRUCTOSE

The Synthesis and Properties of a Calixarene-based 'Sugar Bowl', 1997

FUCOPYRANOSE

Synthesis of Pseudo- α -L-fucopyranose from Toluene, 2447

FULGIDE

Optical Resolution of a Thermally Irreversible Photochromic Indolylfulgide, 785

The Intramolecular [2 + 4] Cycloaddition Reaction of *E,E*-9-Anthrylmethylene-[1-(2,5-dimethyl-3-furylethylidene)]succinic Anhydride, 837

FULLERENE

Triosmium Cluster Derivatives of [60]Fullerene, 15

A Green Fullerene: Synthesis and Electrochemistry of a Diels-Alder Adduct of [60]Fullerene with a Phthalocyanine, 103

Reaction of [60]Fullerene with 1-(4-Methoxyphenyl)-1-(trimethylsilyloxy)ethylene, 367

Dihydrothiopyran-fused [60]Fullerene from Hetero-Diels-Alder Reaction with Thioacrylamide and Acyl Chloride, 565

Corrigendum: A New Method for the Preparation of Fullerene Anion Salts: Synthesis and Characterization of $\text{KC}_{60}(\text{THF})$, 605

Formation and Characterisation of $\text{C}_{70}\text{Cl}_{10}$, 683

$\text{p}K_{\text{a}}$ of Singly Reduced C_{60} Encapsulated in γ -Cyclodextrin, 759

A Copper(I)-complexed Rotaxane with Two Fullerene Stoppers, 781

Synthesis of a [60]Fullerene Derivative Covalently Linked to a Ruthenium(II) Tris(bipyridine) Complex, 845

Aziridino[2',3':1,2][60]fullerene, 885

Aziridino[2',3':1,6][60]fullerene: Isolation of the First Closed [5,6]-bridged Fullerene Adduct, 887

Reaction of Sodium Alkoxides with [60]Fullerene: Formation of a 1,3-Dioxolane Derivative and Involvement of O_2 in a Nucleophilic Addition Reaction of C_{60} , 1071

Hemicarcerands with Interiors Potentially Capable of Binding Large Guests, 1085

Bisazafulleroids, 1159

Unexpected Size of [60]Fullerene in Solution, 1161

Competing Pathways in the Photolytic Cycloaddition Reactions of *N*-Ethoxycarbonylazepine to [60]Fullerene: Formation of [2 + 4] and [2 + 6] Photoadducts, 1171

On the Production of an Aqueous Colloidal Solution of Fullerenes, 1281

Exohedral Derivatization of an Endohedral Metallofullerene $\text{Gd}@\text{C}_{82}$, 1343

Attachment of Chelating Capacity to [60]Fullerene *via* Short Rigid Rods, 1417

Evidence for the Formation of Transient $\text{CH}_4\text{C}_{60}^+$ following High-energy Collisions between C_{60}^+ Radical Cations and Methane, 1459

Regioselective Addition of Silylene on to [70]Fullerene, 1529

Oxidation of [60]Fullerene by Cytochrome P450 Chemical Models, 1537

Lattice-type Polymers from an Adduct of [60]Fullerene and 2-Methylaziridine, 1547

Isomerically Pure Organo[60]fullerenes from C_{60}^{2-} Salt: Synthesis and Characterization of 1-Benzyl-2-hydro[60]fullerene, 1553

Cyclotrimerization of Alkynes with [60]Fullerene in the Presence of Tricyclohexylphosphine, 1603

[60]Fullerene and TCNQ Donor-Acceptor Crystals of Octakis-(dimethylamino)porphyrazine, 1703

Reaction of [60]Fullerene with Diethyl Diazidomalonate: a Doubly Bridged Fulleroid, 1725

Reaction of C_{60} with Cyclopent-2-enone Acetals. A Convenient Access to Chiral C_{60} Derivatives, 1769

Fullerene Spin Label. Synthesis and Characterization of the [60]-Fullerene-substituted TEMPO Radical, 1841

Holey Fullerenes! A bis-Lactone Derivative of [70]Fullerene with an Eleven-atom Orifice, 1869

Reaction of [60]Fullerene with Benzocyclobutenone and Benzocyclobutenedione, 1961

Reaction of [60]Fullerene with Morpholine and Piperidine: Preferred 1,4-Additions and Fullerene Dimer Formation, 2023

$(\text{NH}_3)_6\text{Na}_3\text{C}_{60}$: Room-temperature Synthesis of a Body-centred Cubic C_{60}^{3-} Compound, 2131

Photoinduced Inter- and Intra-molecular Electron Transfer Reactions of [60]Fullerene and a Tertiary Amine. Formation of the Cycloadduct *N*-Ethyl-*trans*-2',5'-dimethylpyrrolidino[3',4':1,2]-[60]fullerene, 2225

Structural and Electrochemical Characterization of the Products of the C_{60} -Piperazine Reaction, 2287

The Transannular Bond in [5,6]- NCO_2R -bridged Monoadducts of [60]Fullerene is Open, 2289

Phosphine-mediated [2 + 2] Cycloaddition of Internal Alk-2-ynoate and Alk-2-ynone to [60]Fullerene, 2473

FULLERENOL

Free Radical Scavenging Activity of Water-soluble Fullerenols, 1283

FULLERIDE

$(\text{NH}_3)_6\text{Na}_3\text{C}_{60}$: Room-temperature Synthesis of a Body-centred Cubic C_{60}^{3-} Compound, 2131

FUMARIC ACID

Facile Synthesis of Vinyl Copolymers with Optical Activity Arising from the Configuration of Stereogenic Carbon Atoms in the Main Chain, 1235

FURAN

n-Butane Oxidation to Maleic Anhydride and Furan with no Carbon Oxide Formation using a Catalyst derived from $\text{VO}(\text{H}_2\text{PO}_4)_2$, 243

Large Pore Bifunctional Titanium-Aluminosilicates: the Inorganic Non-enzymatic Version of the Epoxidase Conversion of Linalool to Cyclic Ethers, 1635

Wittig Rearrangement of 3-Furylmethyl Ethers and its Application to the Synthesis of Dendrolasin, 2135

Synthesis of Furan-, Thiophene- and Pyrrole-fused Sultines and their Application in Diels-Alder Reactions, 2537

FURAN DICARBALDEHYDE

An Electron-transfer Induced Reaction Path Controlled by Ion-pair Formation: an ESR/ENDOR Study of Furan Carbaldehydes and their Reactivity, 803

FURANOCATENANE

Amide-based Furano-catenanes: Regioselective Template Synthesis and Crystal Structure, 777

FURANOID

Efficient Access to Polyfunctionalized and Polycyclic Furanoids: Control of the Off-template Centre *via* Acid Catalysis, 239

FURANONE

Tertiary Alcohol Synthesis from Secondary Alcohols *via* C-H Insertion, 321

Formation of Novel Photoadducts from Irradiation of 5(S)-5-*O*-*tert*-Butyldimethylsilyloxymethylfuran-2(5*H*)-one, 825

FURANYL

A Stereocontrolled Synthesis of D-(+)-Showdomycin, 1017

FURYL ALCOHOL

Wittig Rearrangement of 3-Furylmethyl Ethers and its Application to the Synthesis of Dendrolasin, 2135

FURYL ETHER

Wittig Rearrangement of 3-Furylmethyl Ethers and its Application to the Synthesis of Dendrolasin, 2135

F43Y

The Catalytic Activity of Human Myoglobin is Enhanced by a Single Active Site Mutation: F43Y, 2305

GADOLINIUM

MRI Contrast Agents: Macrocyclic Lanthanide(III) Complexes with Improved Relaxation Efficiency, 1885

GALBONOLIDE

The Construction of 1,3-Dienes Containing an *E*-Double Bond and an *exo*-Methylene Group, 1497

Corrigendum: The Construction of 1,3-Dienes Containing an *E*-Double Bond and an *exo*-Methylene Group, 1929

GALLIUM

Synthesis of Main-group Metal Clusters in Organic Solvents, 59

First Volatile Alkylgallyl Manganese Complexes: Structure of $[(\text{CO})_5\text{Mn}]_2\text{Ga}[(\text{CH}_2)_3\text{NMe}_2]$. Molecular Control of the Stoichiometry of Mn-Ga Thin Films Grown by Low-pressure MOCVD, 337

Synthesis and Structure of a Novel Microporous Gallophosphate, $\text{Na}_3\text{Ga}_5(\text{PO}_4)_4\text{O}_2(\text{OH})_2 \cdot 2\text{H}_2\text{O}$, 843

Ga, Ti Avoidance in the Microporous Titanogallosilicate ETGS-10, 867

Photoluminescence Studies of Chemical Adsorption of GaAs/ $\text{Al}_x\text{Ga}_{1-x}\text{As}$ Multiquantum Well Semiconductor, 1439

Monomeric Selenolato- and Telluroolato-aluminium(III) and -gallium(III) $[\text{Me}_3\text{NM}(\text{ER})_3]$ (E = Se, Te; R = Alkyl, Aryl), *via* Trimethylamine Alane/Gallane Cleavage of Diorgano-dichalcogens, 1457

Chloride and Phosphide-substituted Gallium Hydrides:

$[\text{Cy}_3\text{PGaH}_{3-n}\text{Cl}_n]$, $n = 1$ or 2 , and Trimeric $\{(\text{H}_2\text{Ga}(\mu\text{-PCy}_2))_3\}$, 1669

$[\text{Cl}_3\text{Ga-NReCl}_2(\text{PMe}_2\text{Ph})_3]$ and $[\text{Cl}_3\text{Ga-NReCl}(\text{PMe}_2\text{Ph})_3\text{-}(\text{NCMe})][\text{GaCl}_4]$: the First Complexes with Nitrido Bridges between Main Group and Transition Metals, 2047

GALLIUM PHOSPHATE

Synthesis and Structure of a Novel Open-framework Gallium Phosphate $[\text{Me}_3\text{NH}(\text{CH}_2)_2\text{NHMe}_2]^{2+}[\text{Ga}_4\text{P}_5\text{O}_{20}\text{H}]^{2-} \cdot \text{H}_2\text{O}$, 1261

GALLOPHOSPHATE

Synthesis and Structure of a Novel Microporous Gallophosphate, $\text{Na}_3\text{Ga}_5(\text{PO}_4)_4\text{O}_2(\text{OH})_2 \cdot 2\text{H}_2\text{O}$, 843

GAS PHASE

Hydride Ion Transfer Reactions in the Gas Phase. Pressure Dependence of Reaction Efficiency as a Criterion for the Recognition of Anchimeric Assistance, 121

Evidence for a Concerted $\text{S}_{\text{N}}2'$ Mechanism in the Gas-Phase Acid-induced Nucleophilic Substitutions on Allylic Substrates, 547

The Anomalous High Reactivity of Ca^+ with S_8 in the Gas Phase: $[\text{CaS}_3]^+$ and $[\text{CaS}_{11}]^+$, 975

The Face-centred π Complex Isomer of the Benzenium Ion is Probably the Most Stable Form in the Gas Phase: Experimental Evidence, 1027

The Synthesis and Structures of C_5H^- and C_5^{3-} , 1067
Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409

GC STATIONARY PHASE

Synthesis and Properties of Calixcrown Telomers, 1737

GEL

Anthraquinone–Steroid based Gelators of Alcohols and Alkanes, 375
Probing the Onset of Crystallization of a Microporous Catalyst by Combined X-ray Absorption Spectroscopy and X-ray Diffraction, 2549

GELATOR

Anthraquinone–Steroid based Gelators of Alcohols and Alkanes, 375
A Novel Type of Small Organic Gelators: Bis(Amino Acid) Oxalyl Amides, 1723
N-(2-Carboxylbenzoyl)-L-phenylalanyl-glycine: a Low Molecular-mass Gelling Agent, 2063

GEMINAL EXCHANGE

1,3,6,7,9,11,14,15,17,19,22,23,25,27,30,34-Hexadecaazanonacyclo-[25.5.3.2^{6,9}.2^{14,17}.2^{22,25}.13.7.1^{11,15}.1^{19,23}.0^{30,34}]tetratetracontane, 1633

GERMAIMINE

A Stable Germa-imine: *N*-2,4,6-Trifluorophenyldimesitylgerma-imine; Synthesis and Reactivity, 1687

GERMAKETENEDITHIOACETAL

Synthesis and Structure of the First Germaketenedithioacetal, 1425

GERMANIUM

A One-dimensional Germanium Sulfide Polymer Akin to the Ionosilicates: Synthesis and Structural Characterization of DPA-GS-8, $\text{Ge}_4\text{S}_9(\text{C}_3\text{H}_7)_2\text{NH}_2(\text{C}_3\text{H}_7)\text{NH}_2(\text{C}_2\text{H}_5)$, 541
Synthesis and Structure of the First Germaketenedithioacetal, 1425
Synthesis and Structure of 1,3-Bis[tris(trimethylsilyl)methyl]-2,4,5-triseleno-1,3-digermabicyclo[1.1.1]pentane, 1683
A Stable Germa-imine: *N*-2,4,6-Trifluorophenyldimesitylgerma-imine; Synthesis and Reactivity, 1687

Coordination of SnCl_2 and GeCl_2 onto a One-dimensional Platinum Network: Synthesis and Structural Characterization of the $[\text{PPh}_4]_2[\text{Pt}_8(\text{ECl}_2)_4(\text{CO})_{10}]$ (E = Sn, Ge) Complexes, 2055

GERMENE

A Novel Synthesis of a Germene and of a 1,2-Digermacyclobutane via a Peterson-type Reaction, 1625

GERMYLENE

Platinum- or Palladium-catalysed Ring-opening Homo- and Co-polymerization of Silicon- and Germanium-bridged [1]Ferrocenophanes, 2263

GERMYLFORMYLATION

Germlylformylation of Terminal Alkynes Catalysed by a Zwitterionic Rhodium(I) Complex, 1601

GLUCONOLACTONE

Synthesis and Properties of Some Novel Nonionic Polyol Surfactants, 379

Total Synthesis of the Antifungal Agent Papulacandin D, 1147

GLUCOPYRANOSIDE

(2-Hydroxyethyl)- α -D-Glucopyranoside-2',3,4-trisphosphate: Synthesis of a Second Messenger Mimic Related to Adenophostin A, 1169

Molecular Recognition of Carbohydrates by Functionalized Zinc Porphyrins, 1257

GLUCOSAMINURONIC ACID

Novel Oligosaccharide Mimetics by Solid-phase Synthesis, 2425

GLUCOSE

Total Synthesis of (+)-Lactacystin from D-Glucose, 793
A Diboronic Acid 'Glucose Cleft' and a Biscrown Ether 'Metal Sandwich' are Allosterically Coupled, 1483
The Synthesis and Properties of a Calixarene-based 'Sugar Bowl', 1997

GLUCOSE OXIDASE

Direct Electron Transfer Reactions of Glucose Oxidase Immobilised at a Self-assembled Monolayer, 1293
Aldehyde-functionalized Ethoxysilanes as New Enzyme Immobilization Reagents, 2323

GLUTARATE

Crystal Structure of Silver(I) Glutarate, a Two-dimensional Polynuclear Coordination Polymer, 1415

GLYCAL

Synthesis of 1,2-Cyclopropanated Sugars from Glycals, 217
A Stereoselective and Preparative Entry to 1,2-Anhydrosugars through Oxidation of Glycals with Perfluoro-*cis*-2,3-dialkyloxaziridines, 901

GLYCAN

Electrophilic Azidation of 2-Deoxy-aldono-1,5-lactones: an Alternative Route to 2-Azido-2-deoxy-aldopyranoses, 221

GLYCINE

N-(2-Carboxylbenzoyl)-L-phenylalanyl-glycine: a Low Molecular-mass Gelling Agent, 2063

GLYCOCONJUGATE

Electrophilic Azidation of 2-Deoxy-aldono-1,5-lactones: an Alternative Route to 2-Azido-2-deoxy-aldopyranoses, 221

GLYCOGEN

Layer-by-layer Architectures of Concanavalin A by means of Electrostatic and Biospecific Interactions, 2313

GLYCOL

Tris(2-methoxyphenyl)bismuthane as a Dehydrating Agent with High Template Ability: an Efficient Single-step Synthesis of Macrocyclic Diesters from Diacid Anhydrides and Glycols, 1407

GLYCOPEPTOID

Synthesis of New Glycopeptidomimetics Based on *N*-Substituted Oligoglycine bearing an *N*-Linked Lactoside Side-chain†, 2571

GLYCOPYRANOSIDE

Stereospecific Synthesis of α - and β -C-Aryl- Δ^2 -Glycopyranosides from *p*-*tert*-Butylphenyl α -O- Δ^2 -Glycopyranoside via Grignard Reagents, 1103

GLYCOSIDURONATE

A New Synthesis of D-Glycosiduronates from Unprotected D-Uronic Acids, 1391

GLYCOXYL

A Stereoselective and Preparative Entry to 1,2-Anhydrosugars through Oxidation of Glycals with Perfluoro-*cis*-2,3-dialkyloxaziridines, 901

GLYCOSYLATION

A Novel Strategy for Regio- and Stereo-control in Glycosylation Reactions: Template-directed Cyclo-glycosylation of Monosaccharides, 2005

GLYOXYLATE

Periselective and Enantioselective Carbonyl–Ene Reaction of Isoprene with Fluoroalkyl Glyoxylate Catalysed by Modified Binaphthol–Titanium Complex: Asymmetric Catalytic Synthesis of Enantiomerically Pure Ipsdienol , 2391

GOLD

Corrigendum: Selective Adsorption in Gold–Thiol Monolayers of Calix-4-resorcinarenes, 291

Synthesis of $[\text{AuFe}_2(\text{CO})_8]^{3-}$ and $[\text{Au}_4\text{Fe}_4(\text{CO})_{16}]^{4-}$: X-Ray Structure of the $[\text{Au}_4\text{Fe}_4(\text{CO})_{16}]^{4-}$ Cluster Anion in its $[\text{N}(\text{Et}_4)]^+$ salt, 433

Synthesis of the First Trithiocarbonatogold complex: $[\text{N}(\text{PPh}_3)_2]_2[\text{Au}_2(\mu^2-\eta^2-\text{CS}_3)_2]$. First Crystal Structure of a $\mu^2-\eta^2$ -Bridging Trithiocarbonato Complex, 745

Corrigendum: Photolytic Cleavage of DNA by $[\text{Au}_3(\text{dmpm})_2]^{3+}$, 801
Liquid-crystalline Gold(I)–Carbene Complexes, 1215

Synthesis and Characterization of Two New Organic Superconductors, κ_L - and κ_H -[Bis(ethylenedisulfanyl)-tetrathiafulvalene] $_2\text{Au}(\text{CF}_3)_4 \cdot (1,1,2\text{-Trichloroethane})$ via Microelectrocrystallization, 1311

Enhanced Photopolymerization of Diacetylene in Colloidal Gold Solution, 1525

Synthesis and Reactions of Functionalised Gold Nanoparticles, 1655

Construction of a Knitted Crystalline Polymer through the Use of Gold(I)–Gold(I) Interactions, 1773

Novel Luminescent Cyclometalated and Terpyridine Gold(III) Complexes and its DNA Binding Studies, 1787

The Effect of Ultrasound on Mass Transport to a Microelectrode, 1807

Calculated Structures of SAu_3^+ and $\text{S}(\text{AuPH}_3)_3^+$, 1889

GONIDIOL MONOACETATE

Total Synthesis of the Natural Gonidiol-8-monoacetate from Cinamyl Alcohol, 743

GRAPHENE

Efficient Cleavage of Carbon Graphene Layers by Oxidants, 173

GRAPHITE

An Organic-phase Enzyme Electrode based on an Apparent Direct Electron Transfer between a Graphite Electrode and Immobilized Horseradish Peroxidase, 483

Poly(methylphenylsilane) with an Enhanced Isotactic Content prepared using the Graphite Intercalation Compound, C_8K , 1465

Reversible Electrochemical Insertion of Lithium Ions into Graphite in LiClO_4 -Propylene Carbonate Electrolyte, 1867

GRAPHITE-POTASSIUM

Graphite–potassium, a New Reagent for the Synthesis of Polysilanes, 769

GRIGNARD

On the Mechanism of Titanocenedichloride-catalysed Hydromagnesiation of Alkynes with Alkyl Grignard Reagents, 659

Stereospecific Synthesis of α - and β -C-Aryl- Δ^2 -Glycopyranosides from *p*-*tert*-Butylphenyl α -O- Δ^2 -Glycopyranoside via Grignard Reagents, 1103

GROUP TRANSFER

Novel Group Transfer Cyclization Reactions of Organotellurium Compounds, 2515

GUANIDINE

An Enantiospecific Synthesis of the Tricyclic Guanidine Segment of the Anti-HIV Marine Alkaloid Batzelladine A, 1369

GUANINE

Photoadduct between Tris(1,4,5,8-tetraazaphenanthrene)-ruthenium(II) and Guanosine Monophosphate—a Model for a New Mode of Covalent Binding of Metal Complexes to DNA, 913

GUEST ESCAPE

Comparisons of Activation Energies for Guest Escapes from the Inner Phases of Hemicarcerands with Varying Numbers of Bowl-linking Groups, 1515

HABIT MODIFICATION

Habit Modification in Synthetic Crystals of Aragonite and Vaterite, 1031

HAFNIUM

Anionic and Zwitterionic Metallocene Complexes derived from Novel Boratocyclopentadienyl Ligands, 2081

Lewis Acid Catalysed *trans*-Hydrostannylation of Acetylenes, 2405

HALF-SANDWICH COMPLEX

Zirconocene-like Reactivity of Half-sandwich Tantalum Imido Complexes: New C–C Coupling Reagents, 2261

HALICHOLACTONE

Synthesis and X-Ray Crystallographic Structure of the Right-hand Hemisphere of Halicholactone and Neohalicholactone, 139

HALIDE

Structures and Stabilities of Gas-phase $C_6H_4X^-$ ($X = F, Cl$ and Br) Anions: Benzyne–Halide Ion Complexes?, 2227

Lewis Acid Catalysed Cyclisation and Halogen Exchange Reactions of 1,1'-Biphenyl-2-yl Isocyanide Dihalides, 2295

HALISTATIN 3

Isolation and Structure of Halistatin 3 from the Western Pacific (Chuuk) Marine Sponge *Phakellia sp.*, 383

HALOGEN EXCHANGE

Lewis Acid Catalysed Cyclisation and Halogen Exchange Reactions of 1,1'-Biphenyl-2-yl Isocyanide Dihalides, 2295

HALOGENATION

Catalytic Halogenation of Selected Organic Compounds Mimicking Vanadate-dependent Marine Metalloenzymes, 611

A Structurally Characterized Dichloro-manganese(IV) Complex Capable of Halogenating Alkenes, 2015

HALOGENOPOLYENAL

5-Bromopentadienal: a Versatile Intermediate for the Synthesis of Functionalized Polyenic Compounds, 563

HALOPHENOL

Hydrogenation of Halophenols to Cyclohexanols Using Raney Nickel–Aluminium Alloy in Saturated $Ba(OH)_2$ Solution under Mild Conditions, 209

HAMMETT RELATIONSHIP

Redox Tuning of the Dimolybdenum Compounds at the Ligand Periphery: A Direct Correlation with the Hammett Constant of the Substituents, 2257

HAPTEN

A Cyclization Reaction Catalysed by Antibodies, 39

Corrigendum: A Cyclization Reaction Catalysed by Antibodies, 911

HAPTOTROPIC MIGRATION

Optically Active Naphthalene– $Cr(CO)_3$ Complexes *via* Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535

HECK

Iodination and Heck Alkynylation of 5,15-Diphenylporphyrin. A Convenient Entry to Asymmetrically *meso*-Substituted Porphyrins, 527

Synthesis of 7-, 8- and 9-Membered Rings *via* *Endo* Heck Cyclisations of Amino Acid Derived Substrates, 1743

HELICENE

Complexation with Helical Molecules: Helical Crystal Structure of Bis(hydroxymethyl)[7]thiaheterohelicene·Ethanol Clathrate, 1873

HELICITY

Axial and Helical Chirality of some Spiro-1,3-Dioxanes, 167

Molecular Helicity: a General Approach for Helicity Induction in a Polyheterocyclic Molecular Strand, 765

HELIOTRIDANE

A Stereocontrolled Route to Both Enantiomers of the Necine Base Dihydroxyheliotridane *via* Intramolecular 1,3-Dipolar Addition Using the Same Chiral Precursor, 2291

HELIX

Self-assembly of Homochiral Double Helix and Side-by-side Helix Conformers of a Double-stranded Disilver(I)–Tetra(tertiary phosphine) Complex, 695

HEMICARCERAND

Hemicarcerands with Interiors Potentially Capable of Binding Large Guests, 1085

Comparisons of Activation Energies for Guest Escapes from the Inner Phases of Hemicarcerands with Varying Numbers of Bowl-linking Groups, 1515

Binding Properties and Crystal Structure of a Hemicarcerand Containing Four Diethylene Glycol Units Connecting Two Bowls, 1825

Synthesis, Binding Properties and Crystal Structure of a Hemicarcerand Containing Four Pentamethylenedioxy Groups Spanning Two Bowls, 1947

HEMIPORPHYRAZINE

A Novel Route to Ladder-type Structures based on Hemiporphyrazines, 2449

HEPATOBIILIARY SYSTEM

A New Amphiphilic Host Molecule for ^{99m}Tc . Specific Imaging of the Hepatobiliary System in a Rabbit Model, 523

HEPTANOIC ANHYDRIDE

Phase Transitions Involving Re-ordering of the Guest Molecules in a Solid Organic Inclusion Compound: Heptanoic Anhydride–Urea, 2341

HETEROBIMETALLIC

An Orthometallated Cyclopentadienyl Phosphine Bridge in a New Type of Heterobimetallic Complex: $[(\eta^5-C_5H_5)$

$(\eta^5-C_5H_4)Mo\{o-C_6H_4P(Ph)Cr(CO)_5\}]X$ ($X = Cl, I$), 45

HETEROCYCLE

Regioselective Carbonyl Insertion Reactions with α -Substituted Heterocycles, 917

A Facile Preparation of 3-Chloro-4-acyl-3-sulfolenes as Common Intermediates for the Synthesis of Thieno-, Pyrazolo- and Isoxazolo-3-sulfolenes, 1349

Novel Sulfurated Five-, Seven- and Nine-membered Heterocycles: Unusual Products derived from Potential Bisthionitroxide Precursors, 1449

Preparation and X-Ray Structure of a New Organo-P–O–S Heterocycle, 2217

HETERODINUCLEAR

The First Structurally Characterized and Strongly Luminescent Self-assembled Helical Heterodinuclear d–f Complex, 2575

HETEROGENEOUS

A Convenient Molecular Self-assembly Route to Thin Films containing Terminal Donor Ligands and Anchored Organotransition-metal Complexes for Heterogenized Homogeneous Catalysis, 1577

HETEROGENEOUS CATALYSIS

Chirality Inversion in HZSM-5 and Nafion-H Solid Acid-catalysed Synthesis of Ethers from Alcohols *via* Surface S_N2 Reaction, 1849

Environmentally Friendly Catalysis using Supported Reagents: Evolution of a Highly Active Form of Immobilised Aluminium Chloride, 2037

Dismutation of CFC-12 to CFC-13 over Chromia–Alumina Catalyst, 2377

HETEROLYTIC CLEAVAGE

Heterolytic C–O Cleavage in Arylethers Activated by $[Fe(\eta^5-C_5H_5)]^+$, 463

HETEROPOLYANION

A Heteropolyanion Containing Two Linked Mixed Mo/V Pentadecaometalate Clusters: Structure of $[Mo_{16}V_{14}O_{84}]^{14-}$, 1149

HETEROPOLYPEROXY

A Novel Hexanuclear Heteropolyperoxo Oxidation Catalyst: Preparation, X-Ray Crystal Structure and Reactions of $[NMe_4]_3-[(MePO_3)\{MePO_2(OH)\}W_6O_{13}(O_2)_4(OH)_2(OH_2)] \cdot 4H_2O$, 2183

HETEROSCYPHIC ACID

Biosynthesis of Heteroscyphic Acid A in Cell Cultures of *Heteroscyphus planus*: Nonequivalent Labelling of C-5 Units in Diterpene Biosynthesis, 681

HETEROSCYPHUS PLANUS

Biosynthesis of Heteroscyphic Acid A in Cell Cultures of *Heteroscyphus planus*: Nonequivalent Labelling of C-5 Units in Diterpene Biosynthesis, 681

HETEROTRICYCLE

Syntheses of Sugar-derived Heterotricyclic Lactams, 211

HEXAAZAMETACYCLOPHANE

Multifunctional Molecular Recognition of ATP, ADP and AMP Nucleotides by the Novel Receptor 2,6,10,13,17,21-Hexaaza[22]-metacyclophane, 2237

HEXACYCLOPENTADECADIENEDIONE

Singlet Oxygen Additions to Hexacyclo[10.2.1.0^{2,11}.0^{4,9}.0^{4,14}.0^{9,13}]-pentadeca-5,7-dien-3,10-diones. A Remarkable Substituent Effect on π -Face Selectivity Induced by Transition State Geometric Distortions, 677

HEXAMETHYLBENZENE

The Radical Cation from Hexamethyl(Dewar Benzene): Derived from a Substitution Product of Hexamethylbenzene?, 219

HEXAMETHYLPHOSPHORIC TRIAMIDE

Dilithiated salen Complexes: Chiral $[(salen)Li_2 \cdot hmpa]_2$ and Deliberate Partial Hydrolysis to give $[(salen)Li_2]_3 \cdot Li_2O \cdot 2tmen \cdot H_2O$ [$H_2salen = N,N'$ -ethylenebis-(salicylideneimine); $hmpa =$ hexamethylphosphoramide; $tmen =$ tetramethylethylenediamine], 2147

HEXAPYRRIN

Corrigendum: 5,15,25-tris-nor-Hexapyrrin: the First Structurally Characterized Linear Hexapyrrin, 801

HEXATRIENE

Stereoselective Synthesis of Substituted 1,3,5-Hexatrienes from Diallylic Sulfones, 1297

HIGH SPIN STATE

A Heptanuclear Cr^{III}Ni^{II}₆ Complex with a Low-lying $S = 15/2$ Ground State, 61

HISTIDINE

Molecular Recognition of the Imidazole Residue by a Dicopper(II) Complex with a Bisdien Macrocyclic bearing Two Pendant Arms, 2439

HISTIDINE ESTER

Enantioselective Recognition of Histidine and Lysine Esters by Porphyrin Chiral Clefs and Detection of Amino Acid Conformations in the Bound State, 1925

HOLEY FULLERENE

Holey Fullerenes! A bis-Lactone Derivative of [70]Fullerene with an Eleven-atom Orifice, 1869

HOMOALLYLAMINE

Synthesis of Functionalized Pyrrolidines from *N*-(Benzylidene)- and *N*-(Alkylidene)-homoallylamines, 2029

HOMOANATOXIN-A

Biosynthesis of Anatoxin-a in *Anabaena flos-aquae* and Homoanatoxin-a in *Oscillatoria formosa*, 1361

HOMOGENEOUS CATALYSIS

Methyl Formate Synthesis by Hydrogenation of Supercritical Carbon Dioxide in the Presence of Methanol, 707

HOMOGENEOUS HYDROGENATION

Regioselective Catalytic Deuteration of Phospholipids—Unusual Mechanistic Aspects of Homogeneous Hydrogenation, 2299

HOMOLYTIC SUBSTITUTION

Tandem Radical Translocation and Homolytic Aromatic Substitution: a Convenient and Efficient Route to Oxindoles, 977

HOPANOID

Structure and Origin of Two Triterpene-derived Aromatic Hydrocarbons in Messel Shale, 1275

HORSERADISH PEROXIDASE

An Organic-phase Enzyme Electrode based on an Apparent Direct Electron Transfer between a Graphite Electrode and Immobilized Horseradish Peroxidase, 483

HOST

A New Amphiphilic Host Molecule for ^{99m}Tc. Specific Imaging of the Hepatobiliary System in a Rabbit Model, 523

Optical Resolution of Methyl Phenyl and Benzyl Methyl Sulfoxides and Alkyl Phenylsulfonates by Complexation with Chiral Host Compounds Derived from Tartaric Acid, 639

Dansyl-modified β -Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721

Novel Water-soluble Cyclodextrin-Calix[4]arene Host Molecules with Strongly Enhanced Binding Properties, 1151

Synthesis and Functionalization of Calix[4]arene-based Carceplexes, 1941

Weak Polar Host-Guest Interactions Stabilizing a Molecular Cluster in a Cyclodextrin Cavity: C-H \cdots O and C-H $\cdots\pi$ Contacts in β -Cyclodextrin-But-2-yne-1,4-diol Heptahydrate, 2087

HOST-GUEST

Effect of Excitation on the Host-Guest Equilibrium Constants of Cyclodextrin Complexes, 199

A Tetrathiol Bowl-shaped Cavitand and a Derived Carceplex, 307

Guest-participating Reversion of Molecular Arrangements in Asymmetric Multibilayers of Cholic Acid Inclusion Crystals, 953

Guest-induced Assembly of a Chiral [2 + 2] Metallomacrocyclic, 1697

Formation by Mixing of Chiral Host-Achiral Guest Inclusion Complexes in which the Guest Molecules are Arranged in a Chiral Form. Production of Optically Active Photocyclisation Compounds by Irradiation of the Inclusion Complexes, 1719

Complexation with Helical Molecules: Helical Crystal Structure of Bis(hydroxymethyl)[7]thiaheterohelicene-Ethanol Clathrate, 1873

On the Interpretation of Excited-state Decay Data for the Determination of the Equilibrium Constants in Compartmentalized Systems, 2433

Comments on the Interpretation of Triplet Excited-state Decay Data for the Determination of the Equilibrium Constants in Host-Guest Cyclodextrin Complexes, 2435

HPA

Single-pot Synthesis of Methyl *tert*-Butyl Ether from *tert*-Butyl Alcohol and Methanol: Dodecatungstophosphoric Acid supported on Clay as an Efficient Catalyst, 203

HUPERZINE A

Synthesis and Acetylcholinesterase Inhibitory Activity of Several Pyrimidone Analogues of Huperzine A, 283

HYDANTOIN

Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (Hpyhy) and Complexes of ppyh with Nickel(II) and Copper(II), 1521

HYDRATION

(4-Dimethylaminopyridine)₅(benzoic acid)₃(H₂O)₁₀, a Two-dimensional Clathrate Hydrate, 1705

Kinetic and Theoretical Studies of the Hydration of Carbon Suboxide, 2547

HYDRAZIDE

Methyl Hydrazine as a Building Block for a Bridge Between Phosphinoamine [R₂P-N(R)-PR₂] and Phosphorus Hydrazide [R₂P-N(R)-N(R)-PR₂]. Synthesis and Coordination Chemistry of a Novel Triphosphine [(Me₂P)₂N-N(Me)(PMe₂)], 317

HYDRAZINE

Isolation of Anhydrous Hydrazine as Stable Inclusion Complexes with Hydroquinone and *p*-Methoxyphenol, and their Solid State Reaction with Esters which gives Pure Hydrazides, 1531

1,3,6,7,9,11,14,15,17,19,22,23,25,27,30,34-Hexadecaazanonacyclo-[25.5.3.2^{6,9}.2^{14,17}.2^{22,25}.1^{3,7}.1^{11,15}.1^{19,23}.0^{30,34}]tetracontane, 1633

Selective Production of Hydrazine by a Catalytic Oxidation Process over Ti-, V-, Vi-V- and Ti-B-Silicalites, 2281

HYDRIDE

An Intramolecular W-H \cdots O=C Hydrogen Bond? Electrosynthesis and X-Ray Crystallographic Structure of [WH₃(η^1 -OCOMe)-(Ph₂PCH₂CH₂PPh₂)₂], 1569

Chloride and Phosphide-substituted Gallium Hydrides: [Cy₃PGaH_{3-n}Cl_n], $n = 1$ or 2, and Trimeric [(H₂Ga(μ -PCy₂))₃], 1669

A Zirconium Hydride Enolate from Carbonylation of the Alkyl Compound [Zr{C₅H₂(SiMe₃)₃-1,2,4₂(Me)₂], 2017

d⁰ and d² Polyhydrides as Unconventional Proton Acceptors in Intermolecular Hydrogen Bonding, 2175

Infrared Detection of M-H \cdots OPPh₃ Hydrogen Bonds, 2179

HYDRIDE TRANSFER

Hydride Ion Transfer Reactions in the Gas Phase. Pressure Dependence of Reaction Efficiency as a Criterion for the Recognition of Anchimeric Assistance, 121

Conformationally Biased Tri- and Di-basic 1,3,5-Triazacyclohexyl Ligands, 2361

HYDRIDOALKYNYL

Irreversible Rearrangement of Half-sandwich Ruthenium Hydridoalkynyl Complexes to their Vinylidene Isomers, 1757

HYDROBORATION

Novel Hydroboration of Highly Substituted Alkenes catalysed by Borohydride Complexes of Uranium, Neodymium and Zirconium, 979

HYDROCARBON

A New MAS NMR Probe for *in situ* Investigations of Hydrocarbon Conversion on Solid Catalysts Under Continuous-flow Conditions, 1423

Preparation of Zeolites incorporating Molybdenum Sulfide Clusters with High C₂ Hydrocarbon Selectivity in CO-H₂ Reactions, 2533

HYDROCOUMARIN

Synthesis of 7-Hydroxycoumarins catalysed by Solid Acid Catalysts, 225

HYDROCYANATION

Effect of the Bite Angle of Diphosphine Ligands on Activity and Selectivity in the Nickel-catalysed Hydrocyanation of Styrene, 2177

HYDRODECHLORINATION

Hydrodechlorination of Tetrachloromethane over Supported Pt Catalysts, 2169

HYDRODIOLEPOXIDE

Enantioselective Synthesis of the (+)-*anti*-7,8-Dihydrodiol-9,10-epoxide of the Potent Carcinogen Benzo[*a*]pyrene, 1699

HYDROFLUORINATION

Hydrofluorination of Unsaturated Compounds with Solid Potassium Hydrogen Fluoride in the Presence of Silicon Tetrafluoride at Room Temperature, 1891

HYDROFORMYLATION

Homogeneous Catalytic Hydroformylation of Vinylarenes: A Selective Rhodium Diphosphine Catalyst System for Higher Branched/Linear Product Ratios, 2031

HYDROGEL

EMT Zeolite Synthesis: Na⁺B vs. OH⁻ Effect, 951

HYDROGEN

A Dihydrogen Complex, [Os(η^2 -H₂)(CO)(quS)(PPh₃)₂]⁺, in Equilibrium with its Coordinated Thiol Tautomer (quS = quinoline-8-thiolate), 625

Photo-splitting of Water to Dihydrogen and Hydroxyl Radicals Catalysed by Rhodium-deposited Perfluorinated Poly(*p*-phenylene), 2189

HYDROGEN BOND

Cooperative C \equiv C-H \cdots C \equiv C-H Interactions: Crystal Structure of DL-Prop-2-ynylglycine and Database Study of Terminal Alkynes, 95

Control of the Structural Dimensionality in Hydrogen-bonded Self-assemblies of Open-shell Molecules. Extension of Intermolecular Ferromagnetic Interactions in α -Phenyl Nitronyl Nitroxide Radicals into Three Dimensions, 709

Coexistence of Intermolecular Ferromagnetic Interaction and [NHN]⁺ Hydrogen Bond in *N*-Protonated *m*-Pyridyl Nitronyl Nitroxide, 827

- Hydrogen-bonding Control of Molecular Aggregation: Self-complementary Subunits lead to Rod-shaped Structures in the Solid State, 1251
- Lengthening of the N–H Bond in N–H...N Hydrogen Bonds. Preliminary Structural Data and Implications of the Bond Valence Concept, 1331
- Ferromagnetic Spin Interaction in a Crystalline Molecular Complex Formed by Inter-heteromolecular Hydrogen Bonding: a 1 : 1 Complex of Phenyl Nitronyl Nitroxide Radical and Phenylboronic Acid, 1861
- Correlations between Molecular Motion in the Solid State and Liquid-crystalline Phase Transitions for Two Hydrogen-bonded Carboxylic Acid–Pyridyl Complexes, 1883
- HYDROGEN BONDING**
- Tetrabutylammonium Salts of Carbazole and Dibenzazepine: Synthesis, Crystal Structures and Use in Anionic Polymerization, 275
- Synthesis and X-Ray Crystal Structure of a Novel Tetrathiafulvalene Dimethyl[2,4-dioxo(1*H*,3*H*)pyrimido]tetrathiafulvalene, able to form Intermolecular Hydrogen Bonds of Nucleic Acid Base-pair Type, 325
- Topological Equivalences between Organic and Inorganic Crystal Structures: 1,3,5,7-Tetrahydroxyadamantane and Caesium Chloride, 339
- Hexagonal Supramolecular Networks in the Crystal Structure of the 1 : 1 Molecular Complex Trimethylisocyanurate–1,3,5-Trinitrobenzene, 341
- Isostructural Replacement of an N–H...O by a C–H...O Hydrogen Bond in Complex Stabilisation: Crystal Structures of β -Cyclodextrin Complexed with Diethanolamine and with Pentane-1,5-diol, 511
- The Ion-pair Reinforced, Hydrogen-bonding Molecular Ribbon, 805
- Protonation of an Ylide Leads to a Unique C–H...O Hydrogen-bonded Dimer: The First Synthesis, Isolation and X-Ray Structural Characterisation of a Phosphonium Aryloxide, 919
- Hosting Paramagnetic [Cr(C₆H₆)₂]⁺ in an Organic Anion Framework via CH...O Hydrogen Bonds, 1023
- Stacked Supramolecular Structures involving Hydrogen-bonded Networks in Highly Functionalised Tetrathiafulvalene Derivatives, 1201
- An Alkyne Group with a Pair of Hydrogen Bonds: the Crystal Structure of 2,2'-Ethyneledibenzeneboronic Acid at 122 K, 1499
- An Intramolecular W–H...O=C Hydrogen Bond? Electrosynthesis and X-Ray Crystallographic Structure of [WH₃(η^1 -OCOMe)-(Ph₂PCH₂CH₂PPh₂)₂], 1569
- Solvent Isotope Effects on a Hydrolysis Reaction Catalysed by Subtilisin and its N155G Mutant. Failure of the Proton Inventory Method to report Hydrogen-bonding Interactions in the Oxyanion Hole, 1587
- An Investigation of the Hydrogen Bonding in Liquid-crystal Systems using Variable-temperature Electronic Spectroscopy, 1911
- Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative via Complementary Hydrogen Bonds, 2103
- d⁰ and d² Polyhydrides as Unconventional Proton Acceptors in Intermolecular Hydrogen Bonding, 2175
- Infrared Detection of M–H...OPPh₃ Hydrogen Bonds, 2179
- Recognition of Barbiturates in Molecularly Imprinted Copolymers using Multiple Hydrogen Bonding, 2303
- HYDROGEN PEROXIDE**
- An Organic-phase Enzyme Electrode based on an Apparent Direct Electron Transfer between a Graphite Electrode and Immobilized Horseradish Peroxidase, 483
- High Activity of an Fe–tfda (tfda = 2-aminomethyltetrahydrofuran-*N,N*-diacetic acid) Complex for Hydroxylation at the Aromatic and Alkane Rings of 2'-Deoxyguanosine in the Presence of Hydrogen Peroxide, 1211
- Activation of H₂O₂ by P450: Evidence that the Hydroxylating Intermediate is Iron(III)-coordinated H₂O₂ and not the Ferryl FeO³⁺ Complex, 2297
- HYDROGEN SHIFT**
- Gas-phase Pyrolysis of 2,3-Dihydro-1,4-diazepines: Involvement of the Saturated Portion of the Ring in Chemical Reactions and Novel *cis-trans* Isomerisation of a Fused Ring System, 2337
- HYDROGENATION**
- Hydrogenation of Halophenols to Cyclohexanols Using Raney Nickel–Aluminium Alloy in Saturated Ba(OH)₂ Solution under Mild Conditions, 209
- [NiCl₂(PPh₃)₂] catalysed Transfer Hydrogenation of Ketones and Aldehydes by Propan-2-ol, 465
- Methyl Formate Synthesis by Hydrogenation of Supercritical Carbon Dioxide in the Presence of Methanol, 707
- Novel Preparation of Metal-supported Catalysts by Colloidal Microparticles in a Water-in-oil Microemulsion; Catalytic Hydrogenation of Carbon Dioxide, 763
- Regio- and Stereo-selectivity in the Hydrogenation of Aryl Phosphines by Niobium Aryloxide Compounds, 849
- Light Olefin Synthesis from Carbon Dioxide by Hydrogenation over Fe₃(CO)₁₂ Supported on ZSM-5 Zeolite Catalyst, 1025
- A Remarkable Synergic Effect of Polymer-anchored Bimetallic Palladium–Ruthenium Catalysts in the Selective Hydrogenation of *p*-Chloronitrobenzene, 1155
- 1-(1-Naphthyl)ethylamine and Derivatives thereof as Chiral Modifiers in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt–Alumina, 1421
- Complexes [(P₂)Rh(hfacac)] (P₂ = Bidentate Chelating Phosphane, hfacac = Hexafluoroacetylacetonate) as Catalysts for CO₂ Hydrogenation: Correlations between Solid State Structures, ¹⁰³Rh NMR Shifts and Catalytic Activities, 1479
- Selective Hydrogenations of Dienes and Olefins by [W₂(OCH₂Bu^t)₆(py)₂], 1599
- Ruthenium(II) Complexes with New Tridentate Ligands containing P, N, O Donor Atoms: Highly Efficient Catalysts for Transfer Hydrogenation of Ketones by Propan-2-ol, 1721
- The Remarkable Effect of *E/Z* Isomers on the Catalytic Asymmetric Hydrogenation of Oximes, 1767
- Regioselective Catalytic Deuteration of Phospholipids—Unusual Mechanistic Aspects of Homogeneous Hydrogenation, 2299
- Structure and Dynamics of Intermediates in Asymmetric Hydrogenation by Rhodium Complexes of (2-Methoxyphenyl)-*P*-phenyl-*P*-(2'-diphenylphosphino)ethylphosphine, 2469
- HYDROLYSIS**
- Sugars Intensify the Inhibitory Effect of Phenylboronic Acid on the Hydrolytic Activity of α -Chymotrypsin, 29
- Ethylenediamine–oligo DNA Hybrid as Sequence-selective Artificial Ribonuclease, 77
- Catalytic Hydrolysis of Phosphate Monoesters by Lanthanide(III) Cryptate (2.2.1) Complexes, 575
- Dithymidyl-3',5'-phosphorofluoridates: New Synthesis and Stability under Solvolytic Conditions, 613
- Rate-enhancing Multi-site Interaction in the Hydrolysis of a Cationic Ester Catalysed by a Cu²⁺ Complex of an Anionic Surfactant Ligand in Anionic Sodium Dodecyl Sulfate Micelles, 691
- Hydrolysis of Phosphotriesters Promoted by a Zinc(II) Complex bearing an Alcohol Pendant, 1137
- Corrigendum*: Dithymidyl-3',5'-phosphorofluoridates: New Synthesis and Stability under Solvolytic Conditions, 1195
- Metal–Ammonium Cooperativity in Phosphodiester Hydrolysis, 1205
- Synergic Catalysis by Two Non-lanthanide Metal Ions for Hydrolysis of Diribonucleotides, 1221
- Solvent Isotope Effects on a Hydrolysis Reaction Catalysed by Subtilisin and its N155G Mutant. Failure of the Proton Inventory Method to report Hydrogen-bonding Interactions in the Oxyanion Hole, 1587
- Preparation and Study of Dinuclear Zinc(II) Complex for the Efficient Hydrolysis of the Phosphodiester Linkage in a Diribonucleotide, 1793
- Efficient Multi-point Interaction between Peptide Catalysts and Amino Acid Esters in a Bilayer Vesicular Membrane for Highly Stereoselective Hydrolysis Reactions, 2301
- HYDROMAGNESIATION**
- On the Mechanism of Titanocenedichloride-catalysed Hydromagnesiation of Alkynes with Alkyl Grignard Reagents, 659
- HYDROPEROXIDE**
- Synthesis of γ -Hydroperoxy- α,β -unsaturated Carbonyl Compounds from $\alpha,\beta,\gamma,\delta$ -Unsaturated Carbonyl Compounds by Cobalt(II) Porphyrin-catalysed Hydroperoxyoxygenation, 567
- Hydroperoxides as Pseudohalides: Oxidation, Oxidative Alkylation, Acylation and Arylation of Acrylonitrile, 1399
- Selective Epoxidation of α -Isophorone with Mesoporous Titania–Silica Aerogels and *tert*-Butyl Hydroperoxide, 2487
- HYDROPHOBIC PROBE**
- On the Use of Hydrophobic Probes in the Chromatographic Purification of Solid-phase-synthesized Peptides, 779
- HYDROQUINONE**
- Cyclophanes with Self-recognising Components, 2541
- HYDROSILYLATION**
- Palladium-catalysed Asymmetric Hydrosilylation of Styrenes with a New Chiral Monodentate Phosphine Ligand, 1533
- HYDROSTANNYLATION**
- Lewis Acid Catalysed *trans*-Hydrostannylation of Acetylenes, 2405
- HYDROSULFINATION**
- Hydrosulfination of Alkynes: Synthesis of Vinyl Sulfinato Complexes of Ruthenium(II), 741
- HYDROTALCITE**
- Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu–Mg–Al Hydrotalcite, 2057
- HYDROTHERMAL SYNTHESIS**
- The Hydrothermal Microwave Synthesis of Scorodite: Iron(III) Arsenate(V) Dihydrate, FeAsO₄·2H₂O, 323
- HYDROXAMIC ACID**
- 1,4,2-Dioxazines or *N*-Acyl Isoxazolidines from Organoselenium-induced Cyclisation of *O*-Allyl Hydroxamic Acids, 237
- Nuclease Activity of a Hydroxamic Acid Derivative in the Presence of Various Metal Ions, 1413

HYDROXIDE

The Synthesis and Structure of $\{[\text{Pim}^{\text{Pri}}, \text{Bu}^{\text{t}}]\text{ZnOH}\}(\text{ClO}_4)$: A tris-(Imidazolyl)phosphine Zinc Hydroxide Complex and a Proposed Structural Model For Carbonic Anhydrase, 1813

HYDROXY-AMINO ACID

Stereoselective Syntheses of α -Hydroxy- γ -amino Acids: Possible γ -Turn Mimetics, 1605

HYDROXY CYCLOALKANONE

Generation of Acyl Anion Equivalents by *In Situ* Cathodic Reduction of Acyl Tributylphosphonium Ions Anodically Generated from Tributylphosphine and Carboxylic Acids: Preparation of α -Hydroxy Cycloalkanones from Keto Acids, 871

HYDROXY-L-THREONINE

4-Hydroxy-l-threonine, a Committed Precursor of Pyridoxol (Vitamin B₆), 1339

HYDROXY PYRROLIDINONE

Enantioselective Syntheses of (*S*)- and (*R*)-3-Hydroxypyrrolidin-2-ones via Lactate Dehydrogenase Catalysed Reductions of 4-Benzoyloxycarbonylamino-2-oxobutanoic Acid, 231

HYDROXYALDEHYDE

Synthesis of Enantiomerically Pure α -Hydroxyaldehydes from the Corresponding α -Hydroxycarboxylic Acids: Novel Substrates for *Escherichia coli* Transketolase, 2475

HYDROXYARGININE

Biosynthesis of Anatoxin-a(s). (2*S*,4*S*)-4-Hydroxyarginine as an Intermediate, 205

HYDROXYBUTENOLIDE

Total Synthesis of Milbemycin G: Synthesis of the C(1)–C(10) Fragment, 2519

Total Synthesis of Milbemycin G: Assembly and Completion of the Synthesis, 2521

HYDROXYCARBONATE

Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu–Mg–Al Hydrotalcite, 2057

HYDROXYCARBOXYLIC ACID

Synthesis of Enantiomerically Pure α -Hydroxyaldehydes from the Corresponding α -Hydroxycarboxylic Acids: Novel Substrates for *Escherichia coli* Transketolase, 2475

HYDROXYCHROMENE

Optical Switching of the Redox Activity of a Hydroxychromene, 1695

HYDROXYFLAVONE

Sub-picosecond Pump-probe Spectroscopy of ESIPT in 3-Hydroxyflavone, 2133

HYDROXYL

Photo-splitting of Water to Dihydrogen and Hydroxyl Radicals Catalysed by Rhodium-deposited Perfluorinated Poly(*p*-phenylene), 2189

HYDROXYL RADICAL

Oxidation of Isopropylbenzene by Iron Tetraphenylporphyrin: Evidence for the Interaction of the Cumyl Radical with Oxygen Donors, 429

HYDROXYLAMINE

Deamination of *N*,*O*-Dialkylhydroxylamines via *N*-Nitroso-*N*,*O*-dialkylhydroxylamines: a New Reaction, 1855

HYDROXYLATION

Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ induced Triphase Catalysis in the Oxidation of Hydrophobic Organic Compounds with Significant Enhancement of Activity and *Para*-Selectivity, 349

Titanium Substitution in Silicon-free Molecular Sieves: Anatase-free TAPO₄-5 and TAPO₄-11 Synthesis and Characterisation for Hydroxylation of Phenol, 373

Alkane Hydroxylation by a Manganese Analogue of the Iron Core from Methane Monooxygenase, 531

The First Synthesis of (\pm)-Cycloolivil: A Highly Stereoselective Synthesis of 3-Hydroxy-1-aryltetralin Lignans Based on the Stereoselective Hydroxylation of α,β -Dibenzyl- γ -butyrolactones, 671

High Activity of an Fe–tfda (tfda = 2-aminomethyltetrahydrofuran-*N*,*N*-diacetic acid) Complex for Hydroxylation at the Aromatic and Alkane Rings of 2'-Deoxyguanosine in the Presence of Hydrogen Peroxide, 1211

Amplified Asymmetric Dihydroxylation of a Racemic Cyclopentene, 1501

Activation of H₂O₂ by P450: Evidence that the Hydroxylating Intermediate is Iron(III)-coordinated H₂O₂ and not the Ferryl FeO³⁺ Complex, 2297

HYOSCYAMINE

The Biosynthesis of Tropic Acid: The (*R*)-D-Phenylactyl moiety is processed by the Mutase involved in Hyoscyamine Biosynthesis in *Datura stramonium*, 127

The Biosynthesis of Tropic Acid: The Stereochemical Course of the Mutase involved in Hyoscyamine Biosynthesis in *Datura stramonium*, 129

HYPERPOLARIZABILITY

The Diazonium Group: an Electron Acceptor for Large Molecular Hyperpolarizabilities, 635

Corrigendum: The Dependence of the Molecular First Hyperpolarizabilities of Merocyanines on Ground-state Polarization and Length, 801

HZSM-5

Regioselective Acylation of Anisole with Carboxylic Acids over HZSM-5 Catalyst, 2307

IBOPHYLLIDINE

A Straightforward Route to Ibophyllidine Alkaloids by a Double Transannular Cyclization, 2317

ICOSAEDRAL COORDINATION

Complexes of the Podand Ligand Tris[3-(2-pyridyl)-pyrazol-1-yl]-borate with Lanthanoids and Actinoids: Rare Examples of Icosahedral N₁₂ Coordination, 1881

ILERITE

New Silica-pillared Material prepared from the Layered Silicic Acid of Ilerite, 2427

IMAGING

A New Amphiphilic Host Molecule for ^{99m}Tc. Specific Imaging of the Hepatobiliary System in a Rabbit Model, 523

IMIDAZOLE

Regioselective *N*-Alkylation of Imidazoles with Alcohols over Zeolites, 9

A Novel, Highly Copper(II)-selective Chelating Hydrophilic Ion Exchanger based on Imidazole modified Poly(glycidyl methacrylate), 147

Novel Asymmetric Tripodal Imidazole-containing Ligands forming Dinuclear Copper Compounds through Ligand Sharing, 517

Optical Absorption and EPR Studies on a Six-coordinate Iron(III)-tetramesitylporphyrin-Hydrogen Peroxide Complex Having a Nitrogenous Axial Ligand, 1507

Molecular Recognition of the Imidazole Residue by a Dicopper(II) Complex with a Bisdien Macrocyclic bearing Two Pendant Arms, 2439

IMIDAZOLIDINONE

The First Enantioselective Synthesis of Isoflavonoids: (*R*)- and (*S*)-Isoflavans, 1317

IMIDAZOLYLIDENE CARBENE

Stable Carbenes as Strong Bases, 1267

IMIDAZOPURINE

Facile, General and Productive Syntheses of the Fluorescent Wye (4,9-Dihydro-4,6-dimethyl-9-oxo-1*H*-imidazo[1,2-*a*]purine) in Phenylalanine tRNA, its 2-Substituted Derivatives and 7-Aza Analogues, 2041

IMIDE

The First Example of a Transoid Amide (Imide) in an Eight-membered Lactam, 2325

IMIDO

Tris(2,6-diisopropylphenylimido) Complexes of Molybdenum: Kinetic Accessibility of the d⁰ Mo(=NR)₃ Functional Group, 79

Organoimido Ligands with Remote Functionality: A *p*-Pyridylimido Complex of Vanadium(V) and its Use as a Metalloligand, 737

Polyoxometalate Clusters as Building Blocks: Preparation and Structure of Bis(hexamolybdate) Complexes Covalently Bridged by Organoimido Ligands, 1165

Well-defined Ethylene Polymerisation Catalysts derived from Bis(imido) Chromium(VI) Precursors, 1709

(η^6 -*p*-cymene)Ru \equiv N(2,4,6-tri-*tert*-butylphenyl): A Monomeric Ruthenium(II) Complex containing a Terminal Imido Ligand, 2109

Zirconocene-like Reactivity of Half-sandwich Tantalum Imido Complexes: New C–C Coupling Reagents, 2261

Novel Metal Imido Calixarene Complexes, 2371

IMIDO COMPLEX

Formation of a Chelating Bidentate Nitrosoalkane Complex of Ruthenium(II) through Reaction of H₂O with a High-valent Bis(imido)ruthenium Intermediate and X-Ray Crystal Structure of [Ru(bpy)₂(ONCMe₂CMe₂NO)](ClO₄)₂·Me₂CO, 441

IMINE

Remote Asymmetric Induction in Reactions between 4- and 5-Benzyloxy-pent-2-enyl(tributyl)stannanes and Chiral Imines prepared from Butyl Glyoxylate, 657

Catalytic Formation of Aziridines from Imines and Diazoacetate, 1401

Solvent Effects on the Stereoselectivity of Ketene–Imine Cycloaddition Reactions, 1677

Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899

Intermolecular Polar [4 π + + 2 π] Cycloadditions of Cationic 2-Azabutadienes from Thiomethylamines: A New and Efficient Method for the Regio- and Diastereo-selective Synthesis of 1,2,3,4-Tetrahydroquinolines, 2137

IMINIUM

The Chiral Total Synthesis of (–)-Oncinotine, 1015

IMINOFLUOROSULFINATE

F₂C=N \cdots S(F) \cdots N–CF₂[–], a Cyclic Bis(imino)fluorosulfinate from an Unexpected Rearrangement, 1437

IMMOBILISATION

Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 1803

Covalent Immobilisation of Solvatochromatic Dyes, 2445

IMPRINTING

High Esterolytic Activity of a Novel Water-soluble Polymer Catalyst Imprinted by a Transition-state Analogue, 2143

Recognition of Barbiturates in Molecularly Imprinted Copolymers using Multiple Hydrogen Bonding, 2303

INCLUSION

Effect of Excitation on the Host-Guest Equilibrium Constants of Cyclodextrin Complexes, 199

Isostructural Replacement of an N-H...O by a C-H...O Hydrogen Bond in Complex Stabilisation: Crystal Structures of β -Cyclodextrin Complexed with Diethanolamine and with Pentane-1,5-diol, 511

Dansyl-modified β -Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721

Synthesis and Crystal Structure of a New Large Cryptand encapsulating a Benzene Molecule, 735

Guest-participating Reversion of Molecular Arrangements in Asymmetric Multilayers of Cholic Acid Inclusion Crystals, 953

Hosting Paramagnetic $[\text{Cr}(\text{C}_6\text{H}_6)_2]^+$ in an Organic Anion Framework via CH...O Hydrogen Bonds, 1023

Hemicarcerands with Interiors Potentially Capable of Binding Large Guests, 1085

Optical Resolution of 1,3-Dimethyl-5-phenyl- Δ^2 -pyrazoline by Diastereoisomeric Complex Formation with an Optically Active Host Compound: X-Ray and Molecular Structure of the Complex, 1453

Isolation of Anhydrous Hydrazine as Stable Inclusion Complexes with Hydroquinone and *p*-Methoxyphenol, and their Solid State Reaction with Esters which gives Pure Hydrazides, 1531

Formation by Mixing of Chiral Host-Achiral Guest Inclusion Complexes in which the Guest Molecules are Arranged in a Chiral Form. Production of Optically Active Photocyclisation Compounds by Irradiation of the Inclusion Complexes, 1719

Synthesis and X-Ray Crystal Structure of a New Redox-active Calix[5]arene Containing a Totally Included Ethanol Molecule, 1851

Complexation with Helical Molecules: Helical Crystal Structure of Bis(hydroxymethyl)[7]thiaheterohelicene-Ethanol Clathrate, 1873

Synthesis and Functionalization of Calix[4]arene-based Carceplexes, 1941

New Terpenoid Hosts for Chiral Recognition: Crystal Structure and Molecular Modelling Study of an Inclusion Complex with (S)-(+)-Phenylloxirane, 2229

INDAZOLYLIO OXIDE

A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylio Oxide, 81

Corrigendum: A Novel Carboxylic Acid Azide Decomposition to yield 1,1,7-Trimethylindazol-3-ylio Oxide, 801

INDENYL

Polynuclear Clusters of Fused-ring Hydrocarbons. The Synthesis and X-Ray Structure of $[\text{Os}_4\text{H}(\text{CO})_9(\mu_3\text{-}\eta^2\text{-}\eta^2\text{-}\eta^2\text{-}\text{C}_{13}\text{H}_{15})] (\text{C}_{13}\text{H}_{15} = 1,3\text{-diethylindenyl})$, 755

INDIUM

Synthesis and Structure of $\text{Ba}_2\text{InO}_3\text{F}$: Oxide/Fluoride Ordering in a New K_2NiF_4 Superstructure, 353

Indium-mediated Coupling of Aldehydes with Prop-2-ynyl Bromides in Aqueous Media, 1003

Decisive Role of a Phenyl Group at the α -Position of Benzoylacetone in the Solvent Extraction of Al^{3+} and In^{3+} , 2271

INDO

Reduction of Intermolecular Association in the Sterically Encumbered (Dichloroiodo)arene ArICl_2 [Ar = 2,6-bis(3,5-dichloro-2,4,6-trimethylphenyl)benzene], 1115

INDOLE

Novel Intramolecular Radical Displacement Reactions of 2-Indolyl Aryl Sulfides and Sulfoxides, 1353

INDOLE ACETATE

Tandem Wittig Reaction and Cope Rearrangement of 2-Allyl-1,2-dihydroindol-3-ones to 3-Indole Acetates, 381

INDOLOPYRIDINE ALKALOID

Regioselective Syntheses of the Indolopyridine Alkaloids Nauclefine, Angustine, Dihydroangustine and Nauclefine from a Common Intermediate, 1675

INDOLOQUINOLIZINE

Stereocontrolled Synthesis of Indolo[2,3-*a*]quinolizines by Intramolecular Double Michael Reaction: Proof for Stepwise Mechanism, 2085

INDOLYBORATE

Palladium-catalysed Tandem Cyclisation-Cross-coupling Reaction with Triethyl-(1-methylindol-2-yl)borate, 409

INHIBITION

Sugars Inhibit the Inhibitory Effect of Phenylboronic Acid on the Hydrolytic Activity of α -Chymotrypsin, 29

INOSITOL

Synthesis of All Possible Regioisomers of *myo*-Inositol Tetrakisphosphates, 11

Base-catalysed Acyl Migrations in *myo*-Inositol Dibenzoates, 13

Synthesis of *D*-*myo*-Inositol 3,4,5,6- and 1,4,5,6-Tetrakisphosphate Analogues and their Membrane-permeant Derivatives, 411

Crystal Structure and Modelling Studies of *myo*-Inositol 1,2,3-Trisphosphate, 2219

INOSITOL MONOPHOSPHATASE

Synthesis and Properties of Mechanism-based Inhibitors and Probes for Inositol Monophosphatase derived from 6-*O*-(2'-Hydroxyethyl)-(1*R*,2*R*,4*R*,6*R*)-cyclohexane-1,2,4,6-tetraol, 2353

INSERTION

Regioselective Carbonyl Insertion Reactions with α -Substituted Heterocycles, 917

Dramatic Acceleration of Migratory Insertion in $[\text{MeIr}(\text{CO})_2\text{I}_3]^-$ by Methanol and by Tin(II) Iodide, 1045

Facile Insertion of Alkynes into Ir-P (Phosphine) and Ir-As (Arsine) Bonds: Second and Third Alkyne Addition to Mononuclear Iridium Complexes, 1495

C-H Activation and Nitrile Insertion Reactions of a Cationic Niobium Alkylidene Complex, 2421

INTERCALATION

Methylene Blue Intercalates with Triplex Poly(dT)*Poly(dA)-Poly(dT) but not Duplex Poly(dA)-Poly(dT), 53

Molecular Assembly Recognition Process. Carbon Number Selective Intercalation of Amines by a Layered Zirconium Phosphonate, 75

Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 485

Preparation and Magnetic Properties of Saponite Clays Intercalated with Stable Organic Radicals, 739

Corrigendum: Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 1309

Poly(methylphenylsilane) with an Enhanced Isotactic Content prepared using the Graphite Intercalation Compound, C_8K , 1465

Evidence for the Chemical Nature and Ordering of Cobaltocene Intercalated in CdPS_3 using Single Crystal Solid State ^2H NMR Spectroscopy, 1657

The Pore Size Modification of a Layered Aluminophosphate $[\text{Al}_3\text{P}_4\text{O}_{16}\text{C}_9\text{H}_{24}\text{N}_3]$ by Rational Selection of the Intercalated Template Cation, 1979

Intercalation of Oxide into $[\text{Zr}(\text{C}_5\text{Me}_5\text{F}_3)]$, 2145

New Silica-pillared Material prepared from the Layered Silicic Acid of Ilerite, 2427

INTRAMOLECULAR

The Photosensitized (Electron Transfer) $[4e + 2e]$ Intramolecular Cycloaddition of 1,1,8,8-Tetraphenyl-1,7-octadiene; X-Ray Crystal Structure of 4a,9a-*trans*-4a,10-*trans*-1,2,3,4,4a,9,9a,10-Octahydro-9,9,10-triphenylanthracene, 1963

INTRAMOLECULAR CYCLISATION

Oxidative Intramolecular Cyclization of 2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls affording Novel Bis(1,3-dithiole) Electron Donors, 1761

INTRAMOLECULAR EXCHANGE

Structure and Dynamics of Intermediates in Asymmetric Hydrogenation by Rhodium Complexes of (2-Methoxyphenyl)-*P*-phenyl-*P*-(2'-diphenylphosphino)ethylphosphine, 2469

INTRAMOLECULAR TRAPPING

Formation of Bicyclic Azepines by Intramolecular Trapping of Dihydroazepines, 1255

INVERSION

Nucleophilic Substitution of (Alkoxyethylene)dimethylammonium Chloride with Carboxylate Salts: A Convenient Procedure for the Synthesis of Esters with Inversion of Configuration, 1403

IODIDE

Predominance of Unrearranged Products in the Reactions of the Iodide $(\text{Me}_3\text{Si})_3\text{CSi}(\text{CD}_3)_2\text{I}$ with Silver Salts, and its Mechanistic Implications, 705

IODINATION

Elemental Fluorine as an 'Enabler' for Generation of Powerful Electrophiles from Other Halogens, 19

Iodination and Heck Alkynylation of 5,15-Diphenylporphyrin. A Convenient Entry to Asymmetrically *meso*-Substituted Porphyrins, 527

IODINE

Polyfunctional Ligands: Comparative Oxidative Coupling of $[\text{E}(\text{PPh}_2)_2]^-$ (E = CH, N) with Iodine, 37

The Conversion of Diaryl-1,3-Dithiolanes into *gem*-Difluoromethylene Compounds by a Combination of Elemental Fluorine and Iodine, 177

Reaction of Mercuric Iodide with Cryptand 222. Crystallographic Evidence for the Formation of Finite Octaiodotrimercurate(II) Ions $[\text{Hg}_3\text{I}_8]^{2-}$, 451

Synthesis and Structure of $\text{Mo}_3\text{Te}_{10}\text{I}_{10}$ containing TeI_3^- Ligands coordinated to a Triangular Cluster Fragment $[\text{Mo}_3(\mu_3\text{-Te})(\mu_2\text{-Te}_2)_3]^{4+}$, 1559

Synthesis of 7-, 8- and 9-Membered Rings via *Endo* Heck Cyclisations of Amino Acid Derived Substrates, 1743

iodo

Linear Face-sharing Trioctahedral $[\text{Mo}_3\text{I}_{12}]^{3-}$ by Spontaneous thf Loss from $[\text{MoI}_4(\text{thf})_2]^-$: Structure, Bonding and Magnetic Properties, 1265

iodoalkene

Synthesis of Ketones from Iodoalkenes, Carbon Monoxide and 9-Alkyl-9-borabicyclo[3.3.1]nonane Derivatives via a Radical Cyclization and Palladium-Catalysed Carbonylative Cross-coupling Sequence, 295

iodolabelling

A Novel Approach for Iodolabelling Synthetic Peptides, 1739

iodolactone

Enantioselective Radical-mediated Reduction of α -Iodolactone using Tributyltin Hydride in the Presence of a Chiral Amine and a Lewis Acid, 481

iodomercuration

First Synthesis of the Phosphono Analogue of *N*-Acetyl- α -D-mannosamine 1-Phosphate, 1993

iodonium salt

(Phenyl)[*o*-(Trimethylsilyl)phenyl]iodonium Triflate. A New and Efficient Precursor of Benzynes, 983

iodosylbenzene

Activation of H_2O_2 by P450: Evidence that the Hydroxylating Intermediate is Iron(III)-coordinated H_2O_2 and not the Ferryl FeO^{3+} Complex, 2297

iodovinyl cation

On the C_2H_2^+ Potential Energy Hypersurface. An *ab initio* Study, 143

ion

The Synthesis and Structures of C_5H^- and C_5^- , 1067

ion channel

Ion-channel-forming and Catecholamine-releasing Activities of Elongated and Truncated Analogues of Trichosporin-B, 2203

ion complex

Structures and Stabilities of Gas-phase $\text{C}_6\text{H}_4\text{X}^-$ ($\text{X} = \text{F}, \text{Cl}$ and Br) Anions: Benzynes-Halide Ion Complexes?, 2227

ion exchange resin

A Novel, Highly Copper(II)-selective Chelating Hydrophilic Ion Exchanger based on Imidazole modified Poly(glycidyl methacrylate), 147

Corrigendum: A Novel, Highly Copper(II)-selective Chelating Hydrophilic Ion Exchanger based on Imidazole modified Poly(glycidyl methacrylate), 911

Highly Selective Monotetrahydropyranlation of Symmetrical Diols Catalysed by a Strongly Acidic Ion-exchange Resin, 2491

ion pair

An Electron-transfer Induced Reaction Path Controlled by Ion-pair Formation: an ESR/ENDOR Study of Furan Carbaldehydes and their Reactivity, 803

The Ion-pair Reinforced, Hydrogen-bonding Molecular Ribbon, 805
Direct Observation of Ion Pair Formation between 2,3-Dichloro-5,6-dicyanobenzoquinone Dianion and Sodium Ion, 1909

Photoinduced Inter- and Intra-molecular Electron Transfer Reactions of [60]Fullerene and a Tertiary Amine. Formation of the Cycloadduct *N*-Ethyl-*trans*-2',5'-dimethylpyrrolidino[3',4':1,2]-[60]fullerene, 2225

Closed-shell Ion Pair Aggregation in Non-Polar Solvents characterized by NMR Diffusion Measurements, 2513

ionic diels-alder

Ionic 'Diels-Alder' Reactions of Hexa-3,5-dienyl Trimethylsilyl Ether and Enones: X-Ray Structural Determination of Adduct Stereostructure, and a Stereoselective Approach to *Trans*-fused Octalin Systems, 2479

ionochromic effect

Ionochromic Effects in Regioregular Ether-substituted Polythiophenes, 2293

ipsdienol

Periselective and Enantioselective Carbonyl-Ene Reaction of Isoprene with Fluoroalkyl Glyoxylate Catalysed by Modified Binaphthol-Titanium Complex: Asymmetric Catalytic Synthesis of Enantiomerically Pure Ipsdienol, 2391

ipso-substitution

Pummerer-type Rearrangement on Aromatic Rings: an Unprecedented *ipso*-Substitution of the Sulfinyl Group of *p*-Sulfinylphenyl Ethers into Oxygen Functional Groups leading to Protected Dihydroquinone Derivatives, 2319

IR

New Neutral Nickel Dithiolene Complexes derived from 1,3-Dialkylimidazolidine-2,4,5-trithione, showing Remarkable Near-IR Absorption, 371

The Structure of $\text{W}(\text{CO})_5\text{L}$ ($\text{L} = \text{pyridine}, \text{piperidine}$) in the Lowest Ligand Field Excited State determined by Fast Time-resolved IR Spectroscopy; Unexpected C-O Bond Length Changes, 391

Determination of the Chirality of Enantiomeric $[\text{C}^{16}\text{O}, \text{C}^{17}\text{O}, \text{C}^{18}\text{O}]$ Sulfate Esters by IR Spectroscopy: an *Ab Initio* Evaluation, 701
 d^0 and d^2 Polyhydrides as Unconventional Proton Acceptors in Intermolecular Hydrogen Bonding, 2175

Investigation of the Influence of the Cations to Normal Modes of Y Zeolites: Vibrational Studies and Computer Simulations, 2481

IRELAND

The Construction of 1,3-Dienes Containing an *E*-Double Bond and an *exo*-Methylene Group, 1497

IRELAND CLAISEN

Corrigendum: The Construction of 1,3-Dienes Containing an *E*-Double Bond and an *exo*-Methylene Group, 1929

IRIDAOSMABORANE

nido- $\{[(\text{C}_5\text{Me}_5)\text{Ir}]_3\text{B}_3\text{H}_7\{(\text{PPh}_3)_2(\text{CO})\text{Os}\}\}$, *closo*- $\{[(\text{C}_5\text{Me}_5)\text{Ir}]_3\text{B}_4\text{H}_6\{(\text{PPh}_3)_2(\text{CO})\text{Os}\}\}$ and *pileo*- $\{[(\text{PPh}_3)\text{COHr}]_3\text{B}_5\text{H}_5\{(\text{PPh}_3)_2(\text{CO})\text{Os}\}\}$: a Unique Homologous Series of Iridaosmaborane Cluster Types, 1285

IRIDIUM

A New *P*-Chiral Aminophosphine Ligand Containing a 2,2'-Coupled Pyrrolidine-Phospholane Ring System. Synthesis and Coordination Properties with Rhodium(I) and Iridium(III) Fragments, 833

Novel Iridium Complexes of an Azine Diphosphine: Very Reactive Iridium(III) Species formed by a Unique Isomerisation of an Iridium(III) Hydride. A New Method of creating Coordinative Unsaturation, 865

Thiophene C-S Bond Cleavage by Rhodium and Iridium. An Unprecedented Bridging Mode of the Open $\text{C}_4\text{H}_4\text{S}$ Fragment, 921
Dramatic Acceleration of Migratory Insertion in $[\text{MeIr}(\text{CO})_2\text{I}_3]^-$ by Methanol and by Tin(II) Iodide, 1045

Unprecedented Iridium Catalysed Group Transfer Reactions of 1,3-Thiazanes, 1199

Prop-2-ynyl Alcohol as a Precursor to the η^1 -Ethenyl Ligand, 1209
 $[\text{cis-Pt}(\text{C}_6\text{F}_5)_2(\text{C}\equiv\text{CPh})_2]^{2-}$ as a Double Alkynyl Transfer Reagent.

Synthesis and Characterization of the Ir(III)-Pt(II) Tweezer Complex $\{[(\eta^5\text{-C}_5\text{Me}_5)(\text{PEt}_3)\text{Ir}(\text{C}\equiv\text{CPh})_2]\text{Pt}(\text{C}_6\text{F}_5)_2\}$, 1227

Facile Insertion of Alkynes into Ir-P (Phosphine) and Ir-As (Arsine) Bonds: Second and Third Alkyne Addition to Mononuclear Iridium Complexes, 1495

The Synthesis and Single-crystal X-Ray Structure of the First Example of a Tridentate, Di-orthometallated Triphenyl Phosphite Complex, 2049

Infrared Detection of $\text{M-H}\cdots\text{OPPh}_3$ Hydrogen Bonds, 2179

IRON

Thermodynamics of Benzylic C-H Activation in 18- and 19-Electron Iron Sandwich Complexes: Determination of $\text{p}K_a$ values and Bond Dissociation Energies, 7

Amorphous Iron-Boron Powders prepared by Chemical Reduction of Mixed-metal Cation Solutions: Dependence of Composition upon Reaction Temperature, 247

Spectroscopic and Electrochemical Observation of Both 17- and 19-Electron States of an Inorganometallic Transition Metal Complex: $[\text{Fe}^{\text{III}}(\eta^5\text{-C}_5\text{Me}_5)(\text{S}_2\text{CNMe}_2)_2]$, 249

Synthesis of $[\text{AuFe}_2(\text{CO})_8]^{3-}$ and $[\text{Au}_4\text{Fe}_4(\text{CO})_{16}]^{4-}$: X-Ray Structure of the $[\text{Au}_4\text{Fe}_4(\text{CO})_{16}]^{4-}$ Cluster Anion in its $[\text{NET}_4]^+$ salt, 433

Heterolytic C-O Cleavage in Arylethers Activated by $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)]^+$, 463

Copper-Dioxygen Reactivity Involved in the Formation of μ -oxo $[(\text{por})\text{Fe}^{\text{III}}\text{O}-\text{Cu}^{\text{II}}]^+$ Heterodinuclear Complexes ($\text{por} = \text{porphyrinate}$, $\text{L} = \text{tetradentate ligand}$), and Novel Synthesis of Square-Planar $\text{Fe}^{\text{II}}(\text{por})$ Species, 499

Synthesis and Molecular Structure of a Complex Containing all three Intermediates of the Carbene Synthesis from Coordinated Isocyanides, 569

Electrochemical-optical and -ESR Investigation of the Reaction between Oxygen and π -Neutral Radicals of Zn^{II} - and Fe^{II} -Protoporphyrin Dimethylester, 601

Chirality Preservation in Pyrrolinone Iron Tetracarbonyl Complexes - a Route to Enantiopure 5-Substituted Pyrrolinones, 617

Electronic Influence of Iron Tetracarbonyl Complexation on Unsaturated *N,N*-Diacyliminium Ion Precursors, 619

Utility of Diene-Tricarbonyliron Complexes as Mobile Chiral Auxiliaries: Highly Diastereoselective 1,5-Nucleophilic Substitution with 1,2-Migration of the $\text{Fe}(\text{CO})_3$ Moiety, 631

Synthesis and Spectroscopy of New Iron(II) Complexes of 4,7-Bis(aza-crown ether)-phenanthrolines with Unusual Complexation Properties, 687

Crystallographic Characterization of Octaethylverdohaem, 873
Synthesis of Iron-containing MCM-41, 973

Coordination Chemistry at a Surface: Polymetallic Complexes prepared on Quartz by Alternate Deposition of Iron(II) and Ruthenium(II) Centres, 1007

Light Olefin Synthesis from Carbon Dioxide by Hydrogenation over $\text{Fe}_3(\text{CO})_{12}$ Supported on ZSM-5 Zeolite Catalyst, 1025

Synthesis and Molecular Structure of $[\text{K}(\text{18-crown-6})][(\text{CO})_4\text{FePPh}_2\text{CS}_2]$, 1049

High Activity of an Fe-tfda ($\text{tfda} = 2\text{-aminomethyltetrahydrofuran-}N,N\text{-diacetic acid}$) Complex for Hydroxylation at the Aromatic and Alkane Rings of 2'-Deoxyguanosine in the Presence of Hydrogen Peroxide, 1211

Dynamic Disorder in $[\text{Fe}_2\text{Os}(\text{CO})_{12}]$. Structural Evidence of the Metal Triangle Rotation, 1219

- The First Diferric Model Compound for the Uteroferrin-Arsenate Complex, 1305
- Novel Ligand Transformations in Cluster Complexes. Activation of C-F Bonds in a Perfluorovinylidiron(II) Complex by Primary and Secondary Amines, 1431
- Optical Absorption and EPR Studies on a Six-coordinate Iron(III)-tetramesitylporphyrin-Hydrogen Peroxide Complex Having a Nitrogenous Axial Ligand, 1507
- A Two-dimensional Bimetallic Assembly, $[\text{Ni}(\text{pn})_2]_2[\text{Fe}(\text{CN})_6]\cdot\text{ClO}_4\cdot 2\text{H}_2\text{O}$, with a Square Structure, 1545
- Electronic Communication and Switching between two Iron Atoms across the Phenanthrene-Dihydrophenanthrene Bridging Ligands, 1565
- A Versatile Synthetic Method for Diiron Bridging Allenylidene Complexes $(\eta^5\text{-C}_5\text{Me}_5)_2\text{Fe}_2(\mu\text{-CO})(\text{CO})_2(\mu\text{-}\eta^1\text{:}\eta^1\text{-C}\equiv\text{C-R}^1\text{R}^2)$ via Nucleophilic Addition to the Ethynediylidiron Complex $(\mu\text{-C}\equiv\text{C})[\text{Fe}(\eta^5\text{-C}_5\text{Me}_5)(\text{CO})_2]_2$, 1611
- Preparation and Ligating Properties of the First Example of a 1,2,4-Triphosphole, $\text{P}_3\text{C}_2\text{Bu}_2\text{R}$ [R = CH(SiMe₃)₂]: Crystal and Molecular Structures of $\text{P}_3\text{C}_2\text{Bu}_2\text{CH}(\text{SiMe}_3)_2$, *trans*-[PtCl₂(PEt₃)₂] $\{\text{P}_3\text{Bu}_2\text{CH}(\text{SiMe}_3)_2\}$ and $[\text{Fe}_2(\text{CO})_6\{\mu\text{-P}_3\text{C}_2\text{Bu}_2\text{CH}(\text{SiMe}_3)_2\}]$, 1661
- Synthesis of β -Dimorphelic Acid exploiting Highly Stereoselective Reduction of a Side-chain Carbonyl Group in a π -Allyltricarboxyliron Lactone Complex, 1751
- An Unexpected Reaction Between B(C₆F₅)₃ and $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Me}]$ Gives $\{[\text{Fe}\text{-}\sigma\text{-C}_6\text{F}_4(2\text{-C}(\text{O})\text{Me})(\eta^5\text{-C}_5\text{H}_5)(\text{CO})]\}$, 1853
- Associative Substitution Mechanisms of Clusters: the Relationship between Sites of Nucleophilic Attack and Leaving Group Dissociation, 1905
- Magnetic Exchange Coupling in a Nearly Linear Iron(III)Nickel(II)-Nickel(II)Iron(III) Complex, 1913
- Synthesis, Structure and Preliminary Magnetic Studies of a Heptadecanuclear Iron Complex, 1987
- Unusual Reaction of Tricarbonyl(*o*-chinodimethane)iron with *o*-Lithiobenzylidimethylamine: Crystal Structure of $[\text{Fe}\{\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{C}(\text{OEt})\text{CH}_2\text{C}_6\text{H}_4\text{CH}_3\}(\text{CO})_3]$, 2089
- NMR Studies of the Electronic Structure of Low-spin Iron(III) Phosphonite Complexes: Unusual $(d_{xz}, d_{yz})^4 (d_{xy})^1$ Configuration, 2093
- Activation of H₂O₂ by P450: Evidence that the Hydroxylating Intermediate is Iron(III)-coordinated H₂O₂ and not the Ferryl FeO³⁺ Complex, 2297
- IRON ARSENATE**
The Hydrothermal Microwave Synthesis of Scorodite: Iron(III) Arsenate(V) Dihydrate, FeAsO₄·2H₂O, 323
- IRON OXIDE**
Preparation and Characterization of Fe₂O₃ Nanoparticles in Mesoporous Silicate, 1617
- ISOBUTYL ALCOHOL**
Synthesis of 2-Methylpropan-1-ol-Methanol Mixtures from H₂-CO Synthesis Gas over Double-bed Cs/Cu/ZnO/Cr₂O₃ and Cs/ZnO/Cr₂O₃ Catalysts, 2525
- ISOBUTYLENE**
The First Example of Polymerization of Isobutylene induced by a Metallocene-like Initiator, $[\eta^5\text{-C}_5\text{Me}_5\text{TiMe}_2(\mu\text{-Me})\text{B}(\text{C}_6\text{F}_5)_3]$, 1065
- ISOCYANATE**
Detection of Surface CN and NCO Species as Possible Reaction Intermediates in Catalytic Lean NO_x Reduction, 813
- ISOCYANIDE**
Synthesis and Molecular Structure of a Complex Containing all three Intermediates of the Carbene Synthesis from Coordinated Isocyanides, 569
- Isocyanide Insertion into the Palladium-Carbon Bond of $[\text{PdMe}(\text{L-L})\text{Cl}]$ Complexes and the Reactivity of the Products toward Norbornadiene: X-Ray Crystal Structure of $[\text{Pd}\{\text{C}(\text{=NC}_6\text{H}_3\text{Me}_2\text{-2,6})\text{Me}\}(\text{bpy})\text{Cl}]$ [L-L = bpy or phen], 2233
- Lewis Acid Catalysed Cyclisation and Halogen Exchange Reactions of 1,1'-Biphenyl-2-yl Isocyanide Dihalides, 2295
- ISOFLAVAN**
The First Enantioselective Synthesis of Isoflavonoids: (R)- and (S)-Isoflavans, 1317
- ISOFLAVONOID**
The First Enantioselective Synthesis of Isoflavonoids: (R)- and (S)-Isoflavans, 1317
- ISOINDOLINE**
Generation and Trapping of 1,3-Dithio-1,3-disila-isoindolines, the First Example of Dianions of Functionalized Silanes, 2079
- ISOINVERSION PRINCIPLE**
A Reassessment of the Isoinversion Principle, 357
- ISOLEUCINE**
Approaches Towards the Synthesis of Papulacandin D: Preparation and Structural Elucidation of the Acyl Side Chain, 1145
- ISOMERISATION**
Synthesis and Catalytic Bifunctional Properties of Tungsten Oxynitrides, 359
- New Photoisomerization of Provitamin D caused by Hydroxylation at C(1), 423
- Unusual Conformational Stability of a Sterically Crowded Atropisomer of Methyl[α^4 -5,10,15,20-tetrakis(2'-phenylphenyl)-porphyrinato]aluminium: a Possibility of CH- π Bonding Interactions in Organometallic Porphyrin Systems, 1411
- Origin of the Positive Effect of Coke Deposits on the Skeletal Isomerization of n-Butenes over a H-FER Zeolite, 1685
- Adiabatic Two-way Isomerization of an Arylene: an Observation of Extremely High Energy Barrier for Excited State Z-E Isomerization, 1837
- Catalytic Asymmetrization of *meso*-3,7-Bis-siloxycycloheptene by Chiral Rhodium(I)-binap [2,2'-bis(diphenylphosphino)-1,1'-binaphthyl] Catalyst: the Enantiocontrolled Asymmetric Synthesis of (-)-(S)-Physoperuvine, 2205
- Gas-phase Pyrolysis of 2,3-Dihydro-1,4-diazepines: Involvement of the Saturated Portion of the Ring in Chemical Reactions and Novel *cis-trans* Isomerisation of a Fused Ring System, 2337
- Mutual Isomerization of η^1 -Allenyl and η^1 -Propargyl Complexes of Platinum *via* a Five-coordinate η^3 -Allenyl/propargyl Intermediate, 2485
- ISOMORPHOUS SUBSTITUTION**
On the Feasibility of Iron or Chromium Substitution for Aluminium in the Al₁₃-Keggin Ion, 2269
- ISOPHORONE**
Selective Epoxidation of α -Isophorone with Mesoporous Titania-Silica Aerogels and *tert*-Butyl Hydroperoxide, 2487
- ISOPHOSPHINDOLIUM**
A Novel Coordination Mode for Cationic Phosphorus $\rho\pi$ Systems: μ^2 -Bridging Coordination of a Bis(phosphonio)isophosphindolium Cation, 1541
- ISOPRENE**
Periselective and Enantioselective Carbonyl-Ene Reaction of Isoprene with Fluoroalkyl Glyoxylate Catalysed by Modified Binaphthol-Titanium Complex: Asymmetric Catalytic Synthesis of Enantiomerically Pure Ipsdienol, 2391
- ISOPROPYLBENZENE**
Oxidation of Isopropylbenzene by Iron Tetraphenylporphyrin: Evidence for the Interaction of the Cumyl Radical with Oxygen Donors, 429
- ISOQUINOLINE**
2-(3-Methylthiopropyl)-1*H*-benz[*d,e*]isoquinoline-1,3(2*H*)-dione Derivatives as Novel Photo-induced DNA Cleavers, 311
- Novel Optically Active 7,7'-Bridged-1,1'-biisoquinolines and their Chelation to Rhodium(I) Ion, 1637
- ISOTHERM**
Synthesis of CoVPI-5 with Bifunctional Catalytic Activity, 2255
- ISOTHIOCYANATE**
Reactions of Acyl Isothiocyanates with Diphenyldiazomethane: a Route to Oxazole Derivatives and Thietan-3-imines, 67
- A New Synthesis of Aliphatic Isothiocyanates from Primary Amines, Convenient for *In Situ* Use, 1995
- ISOTOPE EFFECT**
Solvent Isotope Effects on a Hydrolysis Reaction Catalysed by Subtilisin and its N155G Mutant. Failure of the Proton Inventory Method to report Hydrogen-bonding Interactions in the Oxyanion Hole, 1587
- ISOTOPIC LABELLING**
Corrigendum: Mechanism of a Novel Spirocyclisation Reaction: Intramolecular Oxygen Transfer to Carbon Radicals by Nitro Groups, 291
- ISOXAZOLE**
Corrigendum: Synthesis of 3-Vinylisoxazole by a Nitrile Oxide Cycloaddition/Diels-Alder Cycloreversion Pathway, 911
- The Scope and Mechanism of a Novel Synthesis of 3,4-Fused Isoxazoles, 2457
- ISOXAZOLIDINE**
Organoselenium-induced Stereoselective Cyclisation of *O*-Allyl Oximes: A New Synthetic Route to Isoxazolidines, 235
- 1,4,2-Dioxazines or *N*-Acyl Isoxazolidines from Organoselenium-induced Cyclisation of *O*-Allyl Hydroxamic Acids, 237
- ITO ELECTRODE**
A Novel Method for Oxide Surface Modification using Functionalised Diphosphine Complexes, 2129
- JAHN-TELLER**
Molecular Modelling for Copper(II) Centres, 573
- JANUS**
Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative *via* Complementary Hydrogen Bonds, 2103
- JUVABIONE**
Stereo- and Enantio-controlled Synthesis of (+)-Juvabione and (+)-Epjuvabione from (+)-Norcamphor, 2403
- KEDARCIDIN**
Preparation of the A-Ring of Neocarzinostatin and Kedarcidin Chromophores *via* a Stereocontrolled Base Mediated Isomerisation Reaction, 1971

KEGGIN STRUCTURE

On the Feasibility of Iron or Chromium Substitution for Aluminium in the Al_{13} -Keggin Ion, 2269

KETAL

Conversion of Ketals to Ketones by Nitrogen Dioxide in the Presence of Silica Gel, 1121

Dialkylation of α -Diketone Ketals with 1,8-Bis(trimethylsilyloxy)octa-2,6-diene, 1847

KETENE

Solvent Effects on the Stereoselectivity of Ketene-Imine Cycloaddition Reactions, 1677

Diastereoselective [2 + 2] Cycloaddition of Dichloroketene with α -Oxyaldehydes and α -Amino Aldehydes, 1735

Kinetic and Theoretical Studies of the Hydration of Carbon Suboxide, 2547

KETO ACID

Generation of Acyl Anion Equivalents by *In Situ* Cathodic Reduction of Acyl Tributylphosphonium Ions Anodically Generated from Tributylphosphine and Carboxylic Acids: Preparation of α -Hydroxy Cycloalkanones from Keto Acids, 871

KETO ESTER

An Unprecedented DBU-MeOH Promoted One-pot γ -Arylidation of Cyclic β -Ketoesters by a Directed γ -Aldol Reaction and Dehydration Sequence, 33

KETONE

Synthesis of Ketones from Iodoalkenes, Carbon Monoxide and 9-Alkyl-9-borabicyclo[3.3.1]nonane Derivatives *via* a Radical Cyclization and Palladium-Catalysed Carbonylative Cross-coupling Sequence, 295

[$NiCl_2(PPh_3)_2$] catalysed Transfer Hydrogenation of Ketones and Aldehydes by Propan-2-ol, 465

Mapping of the Functional Active Site of Baeyer-Villigerases by Substrate Engineering, 729

Conversion of Ketals to Ketones by Nitrogen Dioxide in the Presence of Silica Gel, 1121

Ruthenium(II) Complexes with New Tridentate Ligands containing P, N, O Donor Atoms: Highly Efficient Catalysts for Transfer Hydrogenation of Ketones by Propan-2-ol, 1721

Catalytic Asymmetric Synthesis of α -Methylene- β -hydroxy-ketones, 1755

Steric Effects on the Solvation of Protonated Di-*tert*-butyl Ketone and Phenyl *tert*-Butyl Ketone, 2053

Selective Production of Hydrazine by a Catalytic Oxidation Process over Ti-, V-, Vi-V- and Ti-B-Silicalites, 2281

KETOPHOSPHONATE

Facile Syntheses of α,α -Difluoro- β -ketophosphonates, 2111

KINETIC RESOLUTION

Kinetic Resolution of Unsymmetrical Divinyl Methanols using Modified Sharpless Reagents, 2389

KINETICS

Hydride Ion Transfer Reactions in the Gas Phase. Pressure Dependence of Reaction Efficiency as a Criterion for the Recognition of Anchimeric Assistance, 121

Diazo-coupling Reactions of Cycloheptatrienols: a Combined Experimental and Theoretical Study, 175

A Reassessment of the Isoinversion Principle, 357

Reversible Cyclisation Reactions to Form Ruthenafurans: X-Ray Crystal Structure of [$Ru(CO)\{C(Ph)OC(OEt)=CH\}Cl(PMePh)_2$], 941

Synthesis of di- μ -oxo Manganese(III/IV) Complexes as Functional Models of *L. plantarum* Pseudo-catalase: Influence of Electronic and Steric Factors; Catalysis and Kinetics of Hydrogen Peroxide Disproportionation, 949

Direct Electron Transfer Reactions of Glucose Oxidase Immobilised at a Self-assembled Monolayer, 1293

High Esterolytic Activity of a Novel Water-soluble Polymer Catalyst Imprinted by a Transition-state Analogue, 2143

Kinetic and Theoretical Studies of the Hydration of Carbon Suboxide, 2547

KRYPTON

Use of Anomalous X-Ray Diffraction to Determine the Location of Sorbed Krypton in Ferrierite, 783

KYNURENINE

Carbonylative Coupling of an Amino Acid-derived Organozinc Reagent with Functionalized Aryl Iodides: Synthesis of Kynurenine, 2207

LACTACYSTIN

Total Synthesis of (+)-Lactacystin from D-Glucose, 793

LACTAM

An Asymmetric Synthesis of Novel Aminocyclopropyl Carboxylic Acids (ACC), 141

Syntheses of Sugar-derived Heterotricyclic Lactams, 211

The Chiral Total Synthesis of (-)-Oncinotine, 1015

Fast Synthesis of Amino Acid Salts and Lactams without Solvent under Microwave Irradiation, 1101

Lithium (α -Methylbenzyl)allylamide: A Differentially Protected Chiral Ammonia Equivalent for the Asymmetric Synthesis of β -Amino Acids and β -Lactams, 1109

Bioactive Surfactants containing a β -Lactam Group: Synthesis and Properties, 1279

A Short and Efficient Route to (\pm)-Anatoxin-*a*, 1461

Formation by Mixing of Chiral Host-Achiral Guest Inclusion Complexes in which the Guest Molecules are Arranged in a Chiral Form. Production of Optically Active Photocyclisation Compounds by Irradiation of the Inclusion Complexes, 1719

The First Example of a Transoid Amide (Imide) in an Eight-membered Lactam, 2325

Chiral Bicyclic Lactams-An Asymmetric Synthesis of the Framework of the *Lycopodium* Alkaloid Magellanine Containing all Six Adjacent Stereogenic Centres, 2511

LACTATE DEHYDROGENASE

Enantioselective Syntheses of (*S*)- and (*R*)-3-Hydroxypyrrolidin-2-ones *via* Lactate Dehydrogenase Catalysed Reductions of 4-Benzoyloxycarbonylamino-2-oxobutanoic Acid, 231

LACTONE

Synthesis and X-Ray Crystallographic Structure of the Right-hand Hemisphere of Halicholactone and Neohalicholactone, 139

Electrophilic Azidation of 2-Deoxy-donon-1,5-lactones: an Alternative Route to 2-Azido-2-deoxy-aldopyranoses, 221

Synthesis and Properties of Some Novel Nonionic Polyol Surfactants, 379

Reagent-controlled Stereoselection in Radical Addition to α -Methylenebutyrolactones, 1043

Biosynthetic Studies of Amphidinolide J: Explanation of the Generation of the Unusual Odd-numbered Macrocyclic Lactone, 1639

Synthesis of β -Dimorphecolic Acid exploiting Highly Stereoselective Reduction of a Side-chain Carbonyl Group in a π -Allyltricarboxyliron Lactone Complex, 1751

Holey Fullerenes! A bis-Lactone Derivative of [70]Fullerene with an Eleven-atom Orifice, 1869

Highly Selective Asymmetric Intramolecular Selenocyclisation, 2321

LACTONISATION

A Cyclization Reaction Catalysed by Antibodies, 39

Corrigendum: A Cyclization Reaction Catalysed by Antibodies, 911

LACTOSE

Synthesis of New Glycopeptidomimetics Based on *N*-Substituted Oligoglycine bearing an *N*-Linked Lactoside Side-chain†, 2571

LADDER

A Novel Route to Ladder-type Structures based on Hemiporphyrazines, 2449

LADDER STRUCTURE

Dis-assembling Lithium Amide Ladder Structures: Structural Elucidation of the Lithium Anilide Solvate [$\{PhN(H)Li\}_6 \cdot 8THF$], a Model Intermediate *En route* to Forming Tetra-solvated Ring Dimers, 2011

LANGMUIR-BLODGETT

Semiconducting Langmuir-Blodgett Films of Non-amphiphilic Ethylenedithio-Tetrathiafulvalene Derivatives Bearing Pyridine and Pyridinium Substituents, 475

The Fabrication of Titania Q-State Particles in Langmuir-Blodgett Films, 1329

In-plane Orientation in Langmuir-Blodgett Films of

Triazolephthalocyanines, 1673

LANOSTEROL CYCLASE

Substitution of the Methyl Groups with Ethyl groups at C-10 and C-15 of 2,3-Oxidosqualene halts the Enzymatic Reaction of Oxidosqualene-Lanosterol Cyclase at the Monocyclic Ring Stage, 2401

LANTHANOID

Self-assembly of the First Heterodinuclear d-f Triple Helix in Solution, 491

Kinetically Stable Lanthanide Cryptates, 903

A Novel Mannich-type Reaction in Aqueous Media. Lanthanide Triflate-catalysed Condensation of Aldehydes, Amines and Vinyl Ethers for the Synthesis of β -Amino Ketones, 1379

Nuclease Activity of a Hydroxamic Acid Derivative in the Presence of Various Metal Ions, 1413

Lanthanide Cleavage of Phosphodiester Liposomes, 1627

Organolanthanide-catalysed Oligomerisation of 2-Cycloalken-1-ones, 1741

MRI Contrast Agents: Macrocyclic Lanthanide(III) Complexes with Improved Relaxation Efficiency, 1885

LANTHANUM

Catalytic Hydrolysis of Phosphate Monoesters by Lanthanide(III) Cryptate (2.2.1) Complexes, 575

The Formation of Gas Phase Benzyl Radicals during the Reaction of Toluene and Nitrous Oxide over Li-MgO and Sr-La₂O₃ Coupling Catalysts, 1203

LASER FLASH PHOTOLYSIS

Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-*c*]pyrrole-1,4-dione, 303

LATTICE-TYPE POLYMER

Lattice-type Polymers from an Adduct of [60]Fullerene and 2-Methylaziridine, 1547

LEAD

Effects of Particle Size Morphology on Ultrasonic-induced Cavitation Mechanisms in Heterogeneous Systems, 201
Solvent Dependent Ester Elimination Reactions in the Preparation of Mixed-metal Oxo Clusters: the Synthesis of $\text{PbSn}_2(\mu_3\text{-O})(\text{O}^t\text{Bu})_4(\text{OAc})_4$, 1041

Synthesis and Structure of the Mixed Crown Sandwich Complex $\{[(\text{C}_5\text{H}_5)_9\text{Pb}_4]-(\text{C}_5\text{H}_5)_5\text{Pb}_2\}-[\text{Li}(12\text{-crown-4})_2]^+\}_2$, 1141
The First Monorganolead(II) Derivative, $\{[\text{PbR}(\mu\text{-Cl})_2]\}_2$ where $\text{R} = \text{C}(\text{SiMe}_2\text{Ph})_3$, 1829

LEUCHS ANHYDRIDE

A Facile Access to Peptides Containing D- α -Methyl β -Alkylserines by Coupling of α -Branched Leuchs Anhydrides with α -Amino Esters, 2327

LEWIS ACID

Organotitanium Oxides as Lewis Acidic Supports of Metal Carbonyl Species: $\{[\text{Ti}_3(\eta^3\text{-C}_5\text{Me}_5)_3(\mu\text{-O})_3\text{Me}]\{(\mu\text{-OC})\text{M}(\text{CO})_2(\eta^5\text{-C}_5\text{H}_5)_2\}\}_2$ ($\text{M} = \text{Mo}, \text{W}$), 551

Reagent-controlled Stereoselection in Radical Addition to α -Methylenebutyrolactones, 1043
Asymmetric Diels-Alder Reactions of TMHD-acrylate using $\text{TiCl}_4 \cdot (\text{Ar}_n\text{Hg})_m$ Complexed Lewis Acids, 1271

Lewis Acid Catalysed *trans*-Hydrostannylation of Acetylenes, 2405

LIGAND EXCHANGE

Ester Elimination *Versus* Ligand Exchange: the Role of the Solvent in Tin-Oxo Cluster-building Reactions, 157
Stereodynamics of Neutral Six-coordinate Silicon Chelates: Evidence for Two Non-dissociative Rate Processes, 1253

LIGAND SHARING

Novel Asymmetric Tripodal Imidazole-containing Ligands forming Dinuclear Copper Compounds through Ligand Sharing, 517

LIGHT

First Cobalt(I)-catalysed Heterocyclotrimerization of Ethyne with Nitriles to Pyridines in Water under Mild Conditions, 179

LIGNAN

The First Synthesis of (\pm)-Cyclooolivil: A Highly Stereoselective Synthesis of 3-Hydroxy-1-aryltetralin Lignans Based on the Stereoselective Hydroxylation of α,β -Dibenzyl- γ -butyrolactones, 671

LIPID

Detection of Regioisomeric Macrocylic Tetraethers in the Lipids of *Methanobacterium thermoautotrophicum* and other Archaeal Organisms, 405

Ion-channel-forming and Catecholamine-releasing Activities of Elongated and Truncated Analogues of Trichosporin-B, 2203

LIPOIC ACID

Application of Enzymic Baeyer-Villiger Oxidations of 2-Substituted Cycloalkanones to the Total Synthesis of (*R*)-(+)-Lipoic Acid, 1563
S-S Bond Cleavage of Polymerization Resistant 1,2-Dithiolanes by Acetylides: Intrinsic Reactivity of Enzyme-bound Lipoic Acid toward Stable, Localized Carbanions, 1763

LIPOSOME

Lanthanide Cleavage of Phosphodiester Liposomes, 1627

LIQUID CRYSTAL

Laterally Connected 'Trimesogens', 107
Liquid Crystalline Polymeric Phthalocyanines, 467
A New Approach to Carbohydrate Functionalized Aromatic Compounds, 645

Synthesis of Triphenylene-based Porphyrinato Metal(II) Complexes which display Discotic Columnar Mesomorphism, 995
Carbohydrate-based Liquid Crystals: New Compounds showing Re-entrant TGB_A and Cholesteric Phases and Dopant-induced TGB_A , S_A and S_C Phases, 1047

The Synthesis of Alkoxybromotriphenylenes: New Discotic Liquid Crystals and Valuable Precursors to 'Mixed Tail' Discotics, 1059

Liquid-crystalline Gold(I)-Carbene Complexes, 1215
Induction of Liquid Crystalline Phases in *N*-alkylated Poly-(ethyleneimine)s by Transition Metal Complexation, 1615
A Liquid Crystalline Ferrocenyl-phthalocyanine, 1715
Correlations between Molecular Motion in the Solid State and Liquid-crystalline Phase Transitions for Two Hydrogen-bonded Carboxylic Acid-Pyridyl Complexes, 1883

An Investigation of the Hydrogen Bonding in Liquid-crystal Systems using Variable-temperature Electronic Spectroscopy, 1911
Preparation of Thin Films with Well-defined Molecular Orientation of Chromophores by Polymerization of Liquid Crystalline Monomers in an Electric Field, 2195

LITHIUM

A Zigzag Chain Structure of a 3-Thiapentane-1,5-dithiolato Vanadium Complex linked by Lithium Ions, 111
A Li_2Br_2 Ring Trapped by *tert*-Butylaminotin(II)bromide and *tert*-Butylamine as found by X-Ray Crystallography, 213
Orbiting of the Lithium Atom in the $[\text{Me}_2\text{Si}(\text{NSiMe}_3)_2]_2\text{InLi}$ Molecule: Theoretical Confirmation, 443

Dehydrosulfonylation of Conjugated Enyne Sulfones: Convenient Synthesis of Diyne Compounds, 583
The EPR Spectrum and Structure of the Mixed Alkali Metal Trimer Cluster Na_2Li Prepared using a Rotating Cryostat, 775

Lithium Anilide Complexed by pmde: Expectation of a Simple Monomer, but in Reality an Odd Trinuclear Composition Combining Three-, Four- and Five-coordinate Lithium, 891

The Formation of Gas Phase Benzyl Radicals during the Reaction of Toluene and Nitrous Oxide over Li-MgO and Sr-La₂O₃ Coupling Catalysts, 1203

Successive Electrocyclic Rearrangements Initiated by the Addition of a Lithiated Cyclopropenone Acetal to a Squarate Ester, 1351
Reversible Electrochemical Insertion of Lithium Ions into Graphite in LiClO_4 -Propylene Carbonate Electrolyte, 1867

Dis-assembling Lithium Amide Ladder Structures: Structural Elucidation of the Lithium Anilide Solvate $\{[\text{PhN}(\text{H})\text{Li}]_6 \cdot 8\text{THF}\}_n$, a Model Intermediate *En route* to Forming Tetra-solvated Ring Dimers, 2011

Facile Syntheses of α,α -Difluoro- β -ketophosphonates, 2111
Intercalation of Oxide into $[\text{Zr}(\text{C}_5\text{Me}_5)\text{F}_3]$, 2145

Dilithiated salen Complexes: Chiral $[(\text{salen})\text{Li}_2 \cdot \text{hmpa}]_2$ and Deliberate Partial Hydrolysis to give $[(\text{salen})\text{-Li}_2]_3 \cdot \text{Li}_2\text{O} \cdot 2\text{tmen} \cdot \text{H}_2\text{O}$ [$\text{H}_2\text{salen} = \text{N,N}'$ -ethylenebis-(salicylideneimine); hmpa = hexamethylphosphoramide; tmen = tetramethylethylenediamine], 2147

LITHIUM METHYLBENZYLALYLAMIDE

Lithium (α -Methylbenzyl)allylamide: A Differentially Protected Chiral Ammonia Equivalent for the Asymmetric Synthesis of β -Amino Acids and β -Lactams, 1109

LITHIUM SOLVATION

Towards Planar Tetracoordinate Carbon in the Puckered Ladder Structure of Dilithiated 1-Di-*tert*-butylhydroxymethyl-3,3-dimethylcyclopropene, 2279

LIVERWORT

Biosynthesis of Chlorophyll a from ¹³C-Labelled Mevalonates and Glycine in Liverwort. Nonequivalent Labelling of Phytyl Side Chain, 2529

LOGIC GATE

A Novel Cation 'AND' Anion Recognition Host Having Pyrido-[1',2':1,2]imidazo[4,5-*b*]pyrazine as the Fluorophore, 1491

LUMINESCENCE

Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 259

Unusual Reactivity of a Luminescent Bis- μ -Sulfido Platinum(II) Dimer with Methylene Chloride. X-Ray Structural Characterization of $[\text{Pt}_2(\mu\text{-S})_2(\text{dppy})_4]$ and $[\text{Pt}(\text{dppy})_2(\text{S}_2\text{CH}_2)]$ (dppy = 2-diphenylphosphinopyridine), 267

Dual-mode Photoswitching of Luminescence, 1095
Corrigendum: Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 1195

Novel Luminescent Cyclometalated and Terpyridine Gold(III) Complexes and its DNA Binding Studies, 1787

Structure and Photophysical Properties of $[\text{Pt}^0(\text{binap})_2]$ [binap = 2,2'-bis(diphenylphosphino)-1,1'-binaphthyl], 2273

The First Structurally Characterized and Strongly Luminescent Self-assembled Helical Heterodinuclear d-f Complex, 2575

LYCOPODIUM

Chiral Bicyclic Lactams-An Asymmetric Synthesis of the Framework of the *Lycopodium* Alkaloid Magellanine Containing all Six Adjacent Stereogenic Centres, 2511

LYSINE ESTER

Enantioselective Recognition of Histidine and Lysine Esters by Porphyrin Chiral Clefs and Detection of Amino Acid Conformations in the Bound State, 1925

MACROBICYCLE

A Novel Receptor for Amino Acid Derivatives, 305
Novel Bicyclic Organoboranes *via* 1,1-Organoboration, 399

MACROCAVITAND

A New Macrocavitand from the Head to Tail Four-point Capping of *p-tert*-Butylcalix[8]arene with a Calix[4]arene, 879

MACROCYCLE

Synthesis, Conformational Flexibility and Preliminary Complexation Behaviour of α,α' -Trehalose-based Macrocycles Containing Thiourea Spacers, 57

Helicity Interchange in Pendant Arm Tetraaza Macrocyclic Sodium(I) Complexes, 97

An Efficient Synthesis of the First Electroactive Phosphorus-containing Bisferrocene Macrocycles, 585

A Novel Bis(*N,N'*-dimethyl-1,4,7-triazacyclononane)calix[4]arene Ligand that forms a Ferromagnetic Dinuclear Nickel(II) Complex with Three End-on Azide Bridging Ligands, 929

Doubly Helical, Chiral Crown Thioether fully preorganized for Planar Coordination, 935

Synthesis and X-Ray Crystal Structural Analysis of a Fully Unsaturated Tetraphosphole Macrocyclic, 1561

Biosynthetic Studies of Amphidinolide J: Explanation of the Generation of the Unusual Odd-numbered Macrocyclic Lactone, 1639

- MRI Contrast Agents: Macrocyclic Lanthanide(III) Complexes with Improved Relaxation Efficiency, 1885
- Construction of a Phosphane-based Metallo-synthon Suitable for the Selective Formation of a Tetranuclear Ru₂-Cu₂ Macrocyclic, 2033
- First Macrocyclic to Incorporate Phenol and Thiophenol Head Units: the X-Ray Crystal Structure of [Ni₂L(MeCN)₂](ClO₄)₂ reveals Bridged Square-planar and Octahedral Nickel(II) Ions, 2075
- Multifunctional Molecular Recognition of ATP, ADP and AMP Nucleotides by the Novel Receptor 2,6,10,13,17,21-Hexaaza[22]-metacyclophane, 2237
- Synthesis and Structure of a Complex of Bismuth(III) with a Nitrogen Donor Macrocyclic, 2365
- Metal Ion Promoted Attack of an Alcohol on a Phosphate Diester: Modeling the Role of Metal Ions in RNA Self-splicing Reactions, 2431
- MACROCYCLIC DIESTER**
- Tris(2-methoxyphenyl)bismuthane as a Dehydrating Agent with High Template Ability: an Efficient Single-step Synthesis of Macrocyclic Diesters from Diacid Anhydrides and Glycols, 1407
- MACROCYCLIC LIGAND**
- Copper(II) and Zinc(II) Macrocyclic Complexes with High Efficiency in Fixing CO₂. Crystal Structures of {[ZnL]₃(μ₃-CO₃)}·(ClO₄)₄ and {[CuL]₃(μ₃-CO₃)}·(ClO₄)₄ (L = [15]aneN₃O₂), 1555
- MACROCYCLIC TETRAETHER**
- Detection of Regioisomeric Macrocyclic Tetraethers in the Lipids of *Methanobacterium thermoautotrophicum* and other Archaeal Organisms, 405
- MACROLIDE**
- Isolation and Structure of Halistatin 3 from the Western Pacific (Chuuk) Marine Sponge *Phakellia* sp, 383
- MACROPOLYHEDRON**
- Macropolyhedral Boron-containing Cluster Chemistry. The Eighteen-vertex Monocarborane [(Me₃CNH₂)CB₁₇H₁₈(CN)], 2407
- MAGELLANINE**
- Chiral Bicyclic Lactams—An Asymmetric Synthesis of the Framework of the *Lycopodium* Alkaloid Magellanine Containing all Six Adjacent Stereogenic Centres, 2511
- MAGNESIUM**
- An Organic/Inorganic Hybrid Layered Polymer: Methacrylate–Magnesium(Nickel) Phyllosilicate, 241
- Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu–Mg–Al Hydrotalcite, 2057
- Effect of Magnesium Fluoride in Chromium–Magnesium Catalysts on the Fluorination Reaction of 1,1,1-Trifluoro-2-chloroethane, 2383
- MAGNETIC PROPERTIES**
- Preparation and Magnetic Properties of Saponite Clays Intercalated with Stable Organic Radicals, 739
- Magnetic Properties of Vanadium Phosphorus Oxide Catalysts Studied by Spin Echo Mapping ³¹P NMR, 1323
- MAGNETIC RESONANCE IMAGING**
- MRI Contrast Agents: Macrocyclic Lanthanide(III) Complexes with Improved Relaxation Efficiency, 1885
- MAGNETIC SUSCEPTIBILITY**
- Benzotriazolate-mediated Assembly of the Discrete Asymmetric Pentanuclear Nickel Complex [Ni₅(OH)(bta)₅(acac)₄(H₂O)₄] (Hbta = benzotriazole, Hacac = pentane-2,4-dione), 1347
- Magnetic Exchange Coupling in a Nearly Linear Iron(III)Nickel(II)-Nickel(II)Iron(III) Complex, 1913
- β^{''}-(bedt-ttf)₄[(H₂O)Fe(C₂O₄)₃]: PhCN: The First Molecular Superconductor containing Paramagnetic Metal Ions, 2061
- Versatility of the Azido Bridging Ligand in the First Two Examples of Ferro–Antiferromagnetic Alternating Nickel(II) Chains, 2375
- Tetranuclear Vanadium(III) Carboxylate Chemistry, and a New Example of a Metal Butterfly Complex exhibiting Spin Frustration: Structure and Properties of [V₄O₂(O₂Cet)₇(bpy)₂](ClO₄), 2517
- MAGNETISM**
- A Heptanuclear Cr^{III}Ni^{II}₆ Complex with a Low-lying S = 15/2 Ground State, 61
- Synthesis and Magnetism of Mixed Valency [N(n-C₄H₉)₄ or P(C₆H₅)₄] Cr^{III}Cr^{III}(C₂O₄)₃, 1513
- Site-specific Ligand Variation in Manganese–Oxide Cubane Complexes, and Unusual Magnetic Relaxation Effects in [Mn₄O₃X(OAc)₃(dbm)₃] (X = N₃⁻, OCN⁻; Hdbm = dibenzoylmethane), 1591
- A Novel Tetranuclear Copper(II) Complex with Three Different Types of Azide, exhibiting Weak Antiferromagnetic Exchange, 1907
- Synthesis, Structure and Preliminary Magnetic Studies of a Heptadecanuclear Iron Complex, 1987
- The Formation of Nanoparticulate Cobalt Carbide, Co₂C, Encapsulated in an Amorphous Siliceous Matrix, 2065
- MALDI-TOF-MS**
- Polymethylmethacrylate End-group Analysis by Matrix-assisted Laser Desorption Ionisation Time-of-flight Mass Spectrometry (MALDI-TOF-MS), 561
- MALEIC ANHYDRIDE**
- n-Butane Oxidation to Maleic Anhydride and Furan with no Carbon Oxide Formation using a Catalyst derived from VO(H₂PO₄)₂, 243
- MALEIMIDE**
- Improved Tumour Targeting with Recombinant Antibody-Macrocyclic Conjugates, 1877
- MALONATE**
- Efficient Dimethyl Malonate Synthesis by Methoxycarbonylation of Dichloromethane catalysed by Electrogenerated [Co(CO)₃PBu₃]⁻ Species, 847
- Unusual Six- and Eight-coordinated Cadmium(II) Malonate Complex: Relevance to ¹¹³Cd NMR Probe of Metal Binding Sites on Metalloproteins, 2333
- MANGANESE**
- First Volatile Alkylgallyl Manganese Complexes; Structure of [(CO)₅Mn]₂Ga[(CH₂)₃NMe₂]. Molecular Control of the Stoichiometry of Mn–Ga Thin Films Grown by Low-pressure MOCVD, 337
- A Conjugate Addition—Radical Cyclisation Approach to Sesquiterpene Phenols, 403
- Alkane Hydroxylation by a Manganese Analogue of the Iron Core from Methane Monooxygenase, 531
- Air Oxidation of a Manganese(III) Thioether Chelate affords the First Manganese(III) Dihydroxalen Complex with a Pendant Sulfoxide Ligand, 535
- Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene–Manganese Tricarbonyl Complexes, 853
- Synthesis of Mesoporous Manganosilicates: Mn-MCM-41, Mn-MCM-48 and Mn-MCM-L, 875
- Synthesis of di-μ-oxo Manganese(III/IV) Complexes as Functional Models of *L. Plantarum* Pseudo-catalase: Influence of Electronic and Steric Factors; Catalysis and Kinetics of Hydrogen Peroxide Disproportionation, 949
- Geometric Control of Manganese Redox State, 1035
- Corrigendum*: Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene–Manganese Tricarbonyl Complexes, 1309
- Metal-to-ligand Charge Transfer Photochemistry: Potential Energy Curves for the Homolysis of the Model System HMn(CO)₃(α-diimine), 1427
- Site-specific Ligand Variation in Manganese–Oxide Cubane Complexes, and Unusual Magnetic Relaxation Effects in [Mn₄O₃X(OAc)₃(dbm)₃] (X = N₃⁻, OCN⁻; Hdbm = dibenzoylmethane), 1591
- A Structurally Characterized Dichloro-manganese(IV) Complex Capable of Halogenating Alkenes, 2015
- Novel Asymmetric Pentadentate N-(X-Substituted Salicylidene)-N',N'-bis(2-hydroxyethyl)ethylenediamine Ligands afford the First Hexanuclear Manganese(III) Complexes, 2155
- Coordination Complexes with Infinite Lattice Structures: Solvothermal Synthesis and X-Ray Crystal Structures of K₂M-[NC₅H₃(CO₂)₂-2,3]₂ (M = Mn, Zn), 2197
- MANNICH**
- A Novel Mannich-type Reaction in Aqueous Media. Lanthanide Triflate-catalysed Condensation of Aldehydes, Amines and Vinyl Ethers for the Synthesis of β-Amino Ketones, 1379
- Novel Synthetic approach to Carbapenems Utilizing Aza-Cope Mannich Cyclization, 2527
- MANNOSAMINE**
- First Synthesis of the Phosphono Analogue of N-Acetyl-α-D-mannosamine 1-Phosphate, 1993
- MAS**
- ¹⁹F to ¹H and ¹H to ¹⁹F Cross Polarization MAS NMR of Trifluoroethanol Chemisorbed on Magnesium Oxide, 1795
- MAS NMR**
- A New MAS NMR Probe for *in situ* Investigations of Hydrocarbon Conversion on Solid Catalysts Under Continuous-flow Conditions, 1423
- A Layered Microporous Aluminosilicate Precursor of FER-type Zeolite, 2187
- Room-temperature Synthesis of a Highly Active Vanadium-containing Mesoporous Molecular Sieve, V-HMS, 2231
- A Neutron Diffraction Study of the Acid Form of Zeolite Y and its Complex with Benzene, 2253
- Unusual Six- and Eight-coordinated Cadmium(II) Malonate Complex: Relevance to ¹¹³Cd NMR Probe of Metal Binding Sites on Metalloproteins, 2333
- MASS SPECTROMETRY**
- Polymethylmethacrylate End-group Analysis by Matrix-assisted Laser Desorption Ionisation Time-of-flight Mass Spectrometry (MALDI-TOF-MS), 561
- The First Evidence for Triple Cation Binding by Multi-ring Macrocyclic Polyethers: An Electrospray Ionization Mass Spectral Study, 641
- The Gaseous Trifluorosilyl Xenon Cation, F₃SiXe⁺: a Stable Species with a Silicon–Xenon Bond, 773
- Electrospray Tandem Mass Spectrometry of Polyoxoanions, 877

- The Face-centred π Complex Isomer of the Benzenium Ion is Probably the Most Stable Form in the Gas Phase: Experimental Evidence, 1027
- Evidence for the Formation of Transient $\text{CH}_4\text{C}_{60}^+$ following High-energy Collisions between C_{60}^+ Radical Cations and Methane, 1459
- Characterization by Electrospray Ionization (ESI) Mass Spectrometry of an Oligomeric, Anionic Thiomalato-silver(I) Complex showing Biological Activity, 1679
- Characterisation of Ruthenium Clusters carrying Facial Arene Ligands using Ultraviolet Laser Desorption Mass Spectrometry: Aggregation of Gas-phase Monocharged Anionic Clusters from Neutral Molecular Clusters, 1689
- Linkers for Combinatorial Chemistry and Reaction Analysis using Solid Phase *In Situ* Mass Spectrometry, 2163
- Electrospray Mass Spectrometry of Neutral Metal Carbonyl Complexes using Silver(I) Ions for Ionisation, 2531
- MASS TRANSPORT**
- The Effect of Ultrasound on Mass Transport to a Microelectrode, 1807
- MATRIX**
- Photochemical Transformations of 3,3,4,7-Tetramethylpyrazolo[3,4-*d*]pyridazine in Solution and Frozen Gas Matrices, 315
- MCM-41**
- Room-temperature Formation of Molecular Sieve MCM-41, 155
- Mesoporous Aluminosilicate MCM-41 as a Convenient Acid Catalyst for Friedel-Crafts Alkylation of a Bulky Aromatic Compound with Cinnamyl Alcohol, 519
- MCM-41 as a Support for Small Platinum Particles: A Catalyst for Low temperature Carbon Monoxide Oxidation, 2283
- MECHANISM**
- Evidence for a Concerted $\text{S}_{\text{N}}2'$ Mechanism in the Gas-Phase Acid-induced Nucleophilic Substitutions on Allylic Substrates, 547
- On the Mechanism of Titanocenedichloride-catalysed Hydromagnesiation of Alkynes with Alkyl Grignard Reagents, 659
- Diepoxyl[15]annulenes undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by $^{13}\text{C}/^{17}\text{O}$ NMR Spectroscopy, 1213
- Insertion of Vinylsilane into the Ruthenium-Silicon Bond—Direct Evidence for the Non-metallacarbene Mechanism of Silylalkene Disproportionation, 2003
- MELAMINE**
- Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative *via* Complementary Hydrogen Bonds, 2103
- MELINONINE**
- First Total Synthesis of (\pm)-Melinonine-E, 2141
- MEMBRANE**
- Zeolite ZSM-5 Membranes Grown on Porous $\alpha\text{-Al}_2\text{O}_3$, 227
- Anion Exchange Membranes for Nitrate Ion Removal from Groundwater by Electrodialysis, 1153
- Molecular Sieving Effect of Carbonized Kapton Polyimide Membrane, 1179
- Asymmetric Capillary Membrane of a Carbon Molecular Sieve, 1781
- MEMBRANE-PERMEANT**
- Synthesis of *D-myo*-Inositol 3,4,5,6- and 1,4,5,6-Tetrakisphosphate Analogues and their Membrane-permeant Derivatives, 411
- MERCURIOCYCLISATION**
- First Synthesis of the Phosphono Analogue of *N*-Acetyl- α -*D*-mannosamine 1-Phosphate, 1993
- MERCURY**
- Synthesis and Structure of the Cluster [*triangulo*-AgHg₂(μ -dppm)₃]³⁺ [dppm = bis(diphenylphosphino)methane], 131
- Reaction of Mercuric Iodide with Cryptand 222. Crystallographic Evidence for the Formation of Finite Octaiodotrimercurate(II) Ions [Hg₃I₈]²⁻, 451
- Synthesis and Structural Studies on *p-tert*-Butyl-1,3-dihydroxy-2,4-disulfanylcaxix[4]arene and its Mercury Complex, 609
- Defects and Holes in the Mercury-based Oxide Superconductors: Relevance to High *T_c* Behaviour, 1595
- MEROCYANINE**
- Corrigendum*: The Dependence of the Molecular First Hyperpolarizabilities of Merocyanines on Ground-state Polarization and Length, 801
- MESOPHASE**
- Formation of Silica-Surfactant Mesophases studied by Real-time *in-situ* X-Ray Powder Diffraction, 2423
- MESOPORE**
- Bimodal Mesopore Distribution in a Silica prepared by Calcining a Wet Surfactant-containing Silicate Gel, 2367
- MESOPOROUS**
- Preparation and Characterization of Fe₂O₃ Nanoparticles in Mesoporous Silicate, 1617
- METABOLITE**
- Enantioselective Bacterial Biotransformation Routes to *cis*-Diol Metabolites of Monosubstituted Benzenes, Naphthalene and Benzocycloalkenes of Either Absolute Configuration, 117
- Synthesis and X-Ray Crystallographic Structure of the Right-hand Hemisphere of Halicholactone and Neohalicholactone, 139
- METACYCLOPHANE**
- Calix[6]resorcinarenes: The First Examples of [1₆]Metacyclophanes derived from Resorcinols, 309
- An Iterative Synthetic Approach to Nanometre-scale Molecular Ribbons, 1237
- METAHETEROPHANE**
- Non-classical [L₄]Metaheterophanes Containing Betaine Units. Synthesis, NMR Spectroscopy and X-Ray Crystallography, 1239
- METAL CARBONYL**
- New Homoleptic Metal Carbonyl Cations: the Syntheses, Vibrational and ¹³C MAS NMR Spectra of Hexacarbonyl-ruthenium(II) and -osmium(II) Undecafluorodiantimonate(V), [Ru(CO)₆][Sb₂F₁₁]₂ and [Os(CO)₆][Sb₂F₁₁]₂, 2071
- METALLACYCLE**
- An Octameric Titanium Oxo Metallacycle with Host-Guest Interactions, 1231
- METALLAMACROBICYCLE**
- Self-assembly of a Novel 14-Membered Metallamacrobicycle containing Two Chromium(III) Ions as Part of the Ring Skeleton, 963
- METALLATION**
- Synthesis, Spectral Studies and Tritiation of the Cannabinoid Antagonist SR141716A, 1549
- METALLOCENE**
- Synthesis and Crystal Structure of [K(C₁₂H₂₄O₆)] [U(η -C₇H₇)₂], The First Cycloheptatrienyl Sandwich Compound, 183
- Anionic and Zwitterionic Metallocene Complexes derived from Novel Boratocyclopentadienyl Ligands, 2081
- Remarkable Chloride over Dihydrogen Phosphate Anion Selectivity Exhibited by Novel Macrocyclic Bis[Ruthenium(II) Bipyridyl] and Ruthenium(II) Bipyridyl-Metallocene Receptors, 2245
- METALLOFULLERENE**
- Exohedral Derivatization of an Endohedral Metallofullerene Gd@C₈₂, 1343
- METALLOLIGAND**
- Organoimido Ligands with Remote Functionality: A *p*-Pyridylimido Complex of Vanadium(V) and its Use as a Metalloligand, 737
- METALLOMACROCYCLE**
- Synthesis and Aggregation Properties of Novel Soluble 'Crowned' Metallotriazolehemiporphyrins, 419
- Guest-induced Assembly of a Chiral [2 + 2] Metallomacrocyclic Formation of Interwoven or Partially Interwoven Metallomacrocyclic Networks in Copper(II) or Zinc(II) Complexes with *N,N'*-*p*-phenylenedimethylenebis(pyridin-4-one), 1975
- METALLOPORPHYRIN**
- DNA Cleavage by a 'Metalloporphyrin-spermine-oligonucleotide' Molecule, 181
- Unusual Conformational Stability of a Sterically Crowded Atropisomer of Methyl[α^4 -5,10,15,20-tetrakis(2'-phenylphenyl)-porphyrinato]aluminium: a Possibility of CH- π Bonding Interactions in Organometallic Porphyrin Systems, 1411
- Oxidation with Perhalogenated, Water-soluble Metalloporphyrins: Application to Oxidation of Substituted 2-Methylpyrroles, 2105
- METALLOSILANEDIOL**
- Metallosilanediods of Molybdenum and Tungsten. Synthesis and Transformation to Functionalized Metallotrisiloxanes. Hydrogen-bonded Structure of [(C₃Me₅)(OC)₂(Me₃P)Mo-SiMe(OH)₂], 1917
- METAL-SULFIDE CLUSTER**
- Remarkable Decrease in Overpotential of Oxalate Formation in Electrochemical CO₂ Reduction by a Metal-Sulfide Cluster, 1223
- METATHESIS**
- Alkene Metathesis on Photoirradiated Silica Surface, 761
- New Homogeneous Rhenium-based Metathesis Catalysts as Models of the Rhenium on Alumina Heterogeneous Catalyst, 791
- Metathesis of Phosphorus-containing Olefins catalysed by a Cyclometallated Aryloxo(chloro)neopentylidene-Tungsten Complex, 857
- Ruthenium-based Catalysts for the Ring Opening Metathesis Polymerisation of Low-strain Cyclic Olefins and of Functionalised Derivatives of Norbornene and Cyclooctene, 1127
- Transition-metal Catalysed Metathesis of Phosphorus-Phosphorus Double Bonds, 2429
- METHACRYLATE**
- An Organic/Inorganic Hybrid Layered Polymer: Methacrylate-Magnesium(Nickel) Phyllosilicate, 241
- Metal-assisted Activation of the C-O Bond of 2-Hydroxyethylmethacrylate. Synthesis and Molecular Structure of Ti₅(OPr)₉(μ -OPr)(μ , η^2 -OC₂H₄O)(μ_3 , η^2 -OC₂H₄O)₃(μ_4 , η^2 -OC₂H₄O), 1817
- METHANE**
- A Stable and Active Nickel-based Catalyst for Carbon Dioxide Reforming of Methane to Synthesis Gas, 71
- Formation of Methanol by the Gas Phase Partial Oxidation of Methane under Normal Pressures, 93
- Photosynthesis of CH₄ at a TiO₂ Surface from Gaseous H₂O and CO₂, 533

- Oxidative Coupling Reaction of CH₄ Using Oxide Ion and Electron Hole Mixed Conductive BaCe_{0.8}Gd_{0.2}O_{3-α} Ceramic as a Membrane Reactor, 1001
- Evidence for the Formation of Transient CH₄C₆₀⁺ following High-energy Collisions between C₆₀⁺ Radical Cations and Methane, 1459
- Oxidation of Methane to Methanol with Oxygen Catalysed by Europium Trichloride at Room Temperature, 2235
- METHANE COMBUSTION**
CeO₂-based Solid Solutions with the Fluorite Structure as Novel and Effective Catalysts for Methane Combustion, 965
- METHANE MONOOXYGENASE**
Alkane Hydroxylation by a Manganese Analogue of the Iron Core from Methane Monooxygenase, 531
- METHANESELONE**
Copper-promoted Intramolecular Selenium Transfer from a P=Se Group to a P-CH₂-P Methylene Carbon producing an Unusual Methaneselone Ligand, 2443
- METHANOBACTERIUM THERMOAUTOTROPHICUM**
Detection of Regioisomeric Macrocyclic Tetraethers in the Lipids of *Methanobacterium thermoautotrophicum* and other Archaeal Organisms, 405
- METHANOL**
Formation of Methanol by the Gas Phase Partial Oxidation of Methane under Normal Pressures, 93
- Cis*-[RhI(CO)(Ph₂PCH₂P(S)Ph₂)]: A New Catalyst for Methanol Carbonylation, 197
- Selective Photoreduction of Carbon Dioxide to Methanol on Titanium Dioxide Photocatalysts in Propylene Carbonate Solution, 829
- Dramatic Acceleration of Migratory Insertion in [MeIr(CO)₂I₃]⁻ by Methanol and by Tin(II) Iodide, 1045
- Novel Catalysts for the Carbonylation of Methanol, 1579
- Oxidation of Methane to Methanol with Oxygen Catalysed by Europium Trichloride at Room Temperature, 2235
- Kinetic Resolution of Unsymmetrical Divinyl Methanols using Modified Sharpless Reagents, 2389
- Synthesis of 2-Methylpropan-1-ol-Methanol Mixtures from H₂-CO Synthesis Gas over Double-bed Cs/Cu/ZnO/Cr₂O₃ and Cs/ZnO/Cr₂O₃ Catalysts, 2525
- METHANOLYSIS**
Dithymidyl-3',5'-phosphorofluoridates: New Synthesis and Stability under Solvolytic Conditions, 613
Corrigendum: Dithymidyl-3',5'-phosphorofluoridates: New Synthesis and Stability under Solvolytic Conditions, 1195
Catalysis by μ-Oxo Diiron(III) Complexes of the Methanolysis of Epoxides and the Addition of Alcohols and Thiols to Phenyl Isocyanate, 2265
- METHOXYCARBONYLATION**
Efficient Dimethyl Malonate Synthesis by Methoxycarbonylation of Dichloromethane catalysed by Electrogenated [Co(CO)₃PBu₃]⁻ Species, 847
- METHYL FORMATE**
Formic Acid Promotion of Transition-metal Catalysed Isomerization of Methyl Formate, 1557
- METHYL VIOLOGEN**
Methyl Viologen-Zeolite Electrodes: Intrazeolite Charge Transfer, 1313
- METHYLAMINE**
Synthesis of Methylamines from Carbon Dioxide and Ammonia, 73
- METHYLAZIRIDINE**
Lattice-type Polymers from an Adduct of [60]Fullerene and 2-Methylaziridine, 1547
- METHYLENE BLUE**
Methylene Blue Intercalates with Triplex Poly(dT)*Poly(dA)·Poly(dT) but not Duplex Poly(dA)·Poly(dT), 53
- METHYLENE TRANSFER**
Allylic Alcohols by Methylene Transfer from *N*-Lithiomethyl-*N,N',N'',N'''*-tetramethyldiethylenetriamine to Epoxides, 513
- METHYLERVITSINE**
A Short Synthesis of *N*_(a)-Methylervitsine. Reactivity of the Intermediate 1,4-Dihydropyridine towards Electrophiles, 125
- METHYLMALONYL**
Corrigendum: The Importance of Peripheral Association for Vitamin B₁₂ catalysed Methylmalonyl-Succinyl-Rearrangement, 605
- METHYLPYRROLE**
Oxidation with Perhalogenated, Water-soluble Metalloporphyrins: Application to Oxidation of Substituted 2-Methylpyrroles, 2105
- MEVALONATE**
Biosynthesis of Chlorophyll a from ¹³C-Labelled Mevalonates and Glycine in Liverwort. Nonequivalent Labelling of Phytyl Side Chain, 2529
- MICELLE**
Rate-enhancing Multi-site Interaction in the Hydrolysis of a Cationic Ester Catalysed by a Cu²⁺ Complex of an Anionic Surfactant Ligand in Anionic Sodium Dodecyl Sulfate Micelles, 691
- Rapid Estimation of Octanol-Water Partition Coefficients using Deoxycholate Micelles in Capillary Electrophoresis, 2241
- MICHAEL**
Novel Intramolecular Michael-type Reactions between Vinylidiphenylphosphine and Pentamethylcyclopentadienyl Coordinated to Rhodium(III): Formation and X-Ray Structures of Heptadentate 10-Electron Donor Ligands, 1629
Michael-type Addition of 1,8-Diazabicyclo[5.4.0]undec-7-ene to Dimethyl Acetylenedicarboxylate, 2251
- MICROELECTROCRYSTALLIZATION**
Synthesis and Characterization of Two New Organic Superconductors, κ_L- and κ_H-[Bis(ethylenedisulfanyl)-tetrathiafulvalene]₂Au(CF₃)₄(1,1,2-Trichloroethane) *via* Microelectrocrystallization, 1311
- MICROELECTRODE**
The Effect of Ultrasound on Mass Transport to a Microelectrode, 1807
- MICROEMULSION**
Novel Preparation of Metal-supported Catalysts by Colloidal Microparticles in a Water-in-oil Microemulsion; Catalytic Hydrogenation of Carbon Dioxide, 763
- MICROPOROSITY**
Synthesis and Structure of a Novel Microporous Gallophosphate, Na₃Ga₅(PO₄)₄O₂(OH)₂·2H₂O, 843
- MICROPOROUS CATALYST**
Gas-phase Catalytic Asymmetric Reaction using Chirally Modified Microporous Catalysts, 2409
Probing the Onset of Crystallization of a Microporous Catalyst by Combined X-ray Absorption Spectroscopy and X-ray Diffraction, 2549
- MICROPOROUS SOLID**
Structure of Aluminium Methylphosphonate, AlMepO-β, with Unidimensional Channels formed from Ladder-like Organic-Inorganic Polymer Chains, 1033
- MICROWAVE**
Fast Synthesis of Amino Acid Salts and Lactams without Solvent under Microwave Irradiation, 1101
Pre-reactive Intermediates in Mixtures of Hydrocarbons with Chlorine Monofluoride: Characterisation of Ethyne···ClF and Ethene···ClF by Rotational Spectroscopy, 1833
- MICROWAVE HEATING**
The Hydrothermal Microwave Synthesis of Scorodite: Iron(III) Arsenate(V) Dihydrate, FeAsO₄·2H₂O, 323
- MIGRATION**
Photochemical [1,3-C] Migration of a Bridgehead Silanorbornene, 133
- MILBEMYCIN G**
Total Synthesis of Milbemycin G: Synthesis of the C(1)-C(10) Fragment, 2519
Total Synthesis of Milbemycin G: Assembly and Completion of the Synthesis, 2521
- MIXED CONDUCTOR**
Oxidative Coupling Reaction of CH₄ Using Oxide Ion and Electron Hole Mixed Conductive BaCe_{0.8}Gd_{0.2}O_{3-α} Ceramic as a Membrane Reactor, 1001
- MIXED OXIDE**
Corrigendum: Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 1309
- MIXED VALENCE**
Valence-localised and Valence-delocalised Mixed-valence States; The Effect of the Substitution Pattern of 1,2-, 1,3- and 1,4-[C₆H₄(NH)₂]²⁻ as Bridging Ligands, 2397
Pronounced Effects of Ring Tilting on the Intramolecular Electron-transfer Rate in Mixed-valence Polyalkyl-substituted Biferrocenium Cations, 2453
- MLCT**
Metal-to-ligand Charge Transfer Photochemistry: Potential Energy Curves for the Homolysis of the Model System HMn(CO)₃(α-diimine), 1427
- MM CALCULATION**
Orbiting of the Lithium Atom in the [Me₂Si(NSiMe₃)₂]₂InLi Molecule: Theoretical Confirmation, 443
- MO CALCULATION**
Orbiting of the Lithium Atom in the [Me₂Si(NSiMe₃)₂]₂InLi Molecule: Theoretical Confirmation, 443
- MODIFIED ELECTRODE**
Methyl Viologen-Zeolite Electrodes: Intrazeolite Charge Transfer, 1313
- MOLECULAR COMPLEX**
Hexagonal Supramolecular Networks in the Crystal Structure of the 1:1 Molecular Complex Trimethylisocyanurate-1,3,5-Trinitrobenzene, 341
- MOLECULAR DYNAMICS**
Do Perfluorinated Chains always have to be Twisted?, 1619
- MOLECULAR MECHANICS**
Molecular Modelling for Copper(II) Centres, 573

MOLECULAR METAL

The New Synthetic Metals of $M(\text{dmise})_2$: $[\text{Me}_3\text{HN}][\text{Ni}(\text{dmise})_2]$ and $(\text{EDT-TTF})[\text{Ni}(\text{dmise})_2]$, 351

MOLECULAR MODEL

Postulated Mechanism for Faulting in Zeolite Beta, 343

Molecular Modelling of Supported Metal Catalysts: SiO_2 -grafted $[\{\{\eta^3\text{-C}_4\text{H}_7\}_2\text{Rh}\}_2\text{V}_4\text{O}_{12}]$ and $[\{\{\text{Rh}(\text{C}_2\text{Me}_5)\}_4\text{V}_6\text{O}_{19}\}]$ are Catalytically Active in the Selective Oxidation of Propene to Acetone, 1301

MOLECULAR RECEPTOR

A Zinc(II)-organized Molecular Receptor as a Catalyst for the Cleavage of Amino Acid Esters, 1163

MOLECULAR RECOGNITION

Binding Properties and Crystal Structure of a Hemarcerand Containing Four Diethylene Glycol Units Connecting Two Bowls, 1825

Molecular Recognition of the Imidazole Residue by a Dicopper(II) Complex with a Bisdien Macrocycle bearing Two Pendant Arms, 2439

MOLECULAR RIBBON

An Iterative Synthetic Approach to Nanometre-scale Molecular Ribbons, 1237

MOLECULAR SIEVE

Synthesis and Characterization of a Novel Vanadium Analogue of ALPO-31, 151

Room-temperature Formation of Molecular Sieve MCM-41, 155

Novel Large-pore Vanadium Alumino- and Boro-silicates With BEA Structure, 207

Titanium Silicate Molecular Sieve (TS-1)/ H_2O_2 induced Triphase Catalysis in the Oxidation of Hydrophobic Organic Compounds with Significant Enhancement of Activity and *Para*-Selectivity, 349

Titanium Substitution in Silicon-free Molecular Sieves: Anatase-free $\text{TAPO}_4\text{-5}$ and $\text{TAPO}_4\text{-11}$ Synthesis and Characterisation for Hydroxylation of Phenol, 373

Molecular Sieving Silica Overlay on Tin Oxide prepared using an Organic Template, 623

Structural Order in MCM-41 controlled by Shifting Silicate Polymerization Equilibrium, 711

A New As^{3+} -Silicate Molecular Sieve with MFI Structure, 869

Synthesis of Iron-containing MCM-41, 973

Base and Acid Catalysis by the Alkali-containing MCM-41 Mesoporous Molecular Sieve, 1005

Molecular Sieving Effect of Carbonized Kapton Polyimide Membrane, 1179

Hydroxy-assisted Chemo- and Stereo-selective Epoxidation Catalysed by a Titanium Silicate Molecular Sieve (TS-1)/ H_2O_2 System, 1315

Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Chemoselective Epoxidation of Alkenes with TBHP, 1341

Sol-Gel Synthesis of Cryptomelane, an Octahedral Molecular Sieve, 1367

Asymmetric Capillary Membrane of a Carbon Molecular Sieve, 1781

Room-temperature Synthesis of a Highly Active Vanadium-containing Mesoporous Molecular Sieve, V-HMS, 2231

Synthesis and Catalytic Properties of Mesoporous Tin Silicate Molecular Sieves, 2495

MOLECULAR SWITCH

Electronic Communication and Switching between two Iron Atoms across the Phenanthrene-Dihydrophenanthrene Bridging Ligands, 1565

MOLYBDATE

Functionalisation of $[\text{Mo}_6\text{O}_{19}]^{2-}$ with Aromatic Amines: Synthesis and Structure of a Hexamolybdate Building Block with Linear Difunctionality, 455

Polyoxometalate Clusters as Building Blocks: Preparation and Structure of Bis(hexamolybdate) Complexes Covalently Bridged by Organodiimido Ligands, 1165

MOLYBDENUM

An Orthometallated Cyclopentadienyl Phosphine Bridge in a New Type of Heterobimetallic Complex: $[\{\eta^5\text{-C}_5\text{H}_5\}$

$(\eta^5\text{-C}_5\text{H}_4)\text{Mo}\{o\text{-C}_6\text{H}_4\text{P}(\text{Ph})\text{Cr}(\text{CO})_5\}\text{X}$ ($\text{X} = \text{Cl}, \text{I}$), 45

Tris(2,6-diisopropylphenylimido) Complexes of Molybdenum:

Kinetic Accessibility of the d^0 $\text{Mo}(\text{=NR})_3$ Functional Group, 79

Synthesis and Crystal Structure of the First 6a-Thiathiophthen Metal Complex $[\text{Mo}(\text{CO})_5\text{PPh}_2]_2(\mu\text{-C}_5\text{H}_2\text{S}_3)$, 223

New Routes To Molybdenum and Tungsten Carbyne Complexes $[\text{M}(\text{CO})_2(\text{=CPh})(\eta^5\text{-C}_5\text{H}_4\text{R})]$ ($\text{M} = \text{Mo}$ or W , $\text{R} = \text{SnPh}_3$; $\text{M} = \text{W}$, $\text{R} = \text{H}$), 515

Arylalkane Oxidation by Dioxo[4,4'-di(*tert*-butyl)-2,2'-bipyridyl]-molybdenum(VI) Complexes, 655

Scission of Ethyne into Two Methylidyne Ligands: $\text{C}\equiv\text{C}$ vs. C-H Bond Activation, 899

The *cis*-Insertion of Diphenylacetylene into an *exo*-Polyhedral Boron-Hydrogen Bond of a Molybdenacarbaborane Cage, 985

Conversion of a Molybdenum Nitride to the Amide and thence to an Oxide and Ammonia, Reactions Involving Formal 1,3-Prototropic Shifts. X-Ray Structures of *trans*- $[\text{Mo}(\text{NH}_2)(\text{OH})(\text{dppe})_2][\text{OTf}]_2$ and *trans*- $[\text{MoO}(\text{OMe})(\text{dppe})_2][\text{BPh}_4](\text{dppe} = \text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2$; $\text{OTf} = \text{CF}_3\text{SO}_3$), 1081

Oxidative Cleavage of the Te-Te Bond in η^2 -Ditellurido Complexes: Syntheses and Structures of $\text{M}(\text{PMe}_3)_4(\eta^2\text{-Te}_2)\text{H}_2$ ($\text{M} = \text{Mo}, \text{W}$), 1099

A Heteropolyanion Containing Two Linked Mixed Mo/V Pentadeca-oxometalate Clusters: Structure of $[\text{Mo}_{16}\text{V}_{14}\text{O}_{84}]^{14-}$, 1149

Linear Face-sharing Trioctahedral $[\text{Mo}_3\text{I}_{12}]^{3-}$ by Spontaneous thf Loss from $[\text{Mo}_4(\text{thf})_2]^-$: Structure, Bonding and Magnetic Properties, 1265

Use of Trimethylamine *N*-Oxide in the Controlled Air-oxidation of Metal Carbonyl Complexes: Synthesis and Crystal Structure of a Novel Organometallic Oxo Complex of Dimolybdenum, 1269

Corrigendum: Scission of Ethyne into Two Methylidyne Ligands: $\text{C}\equiv\text{C}$ vs. C-H Bond Activation, 1309

Synthesis and Structure of $\text{Mo}_3\text{Te}_{10}\text{I}_{10}$ containing TeI_3^- Ligands coordinated to a Triangular Cluster Fragment $[\text{Mo}_3(\mu_3\text{-Te})(\mu_2\text{-Te}_2)_3]^{4+}$, 1559

Synthesis, Crystal, Molecular and Electronic Structure of a Novel Heterobinuclear Alkoxide Cluster $[(\text{MeO})_2\text{ReO}(\mu\text{-OMe})_3\text{MoO}(\text{OMe})_2]$, 1779

The First Chelating Phosphorus-Nitrogen Dioxo Ligand:

Complexation of an $\text{MoO}(\text{O}_2)_2$ Fragment, 1871

Metallosilanedioles of Molybdenum and Tungsten. Synthesis and Transformation to Functionalized Metallotrisiloxanes. Hydrogen-bonded Structure of $[(\text{C}_5\text{Me}_5)(\text{OC})_2(\text{Me}_3\text{P})\text{Mo-SiMe}(\text{OH})_2]$, 1917

Redox Tuning of the Dimolybdenum Compounds at the Ligand Periphery: A Direct Correlation with the Hammett Constant of the Substituents, 2257

Novel Metal Imido Calixarene Complexes, 2371

Valence-localised and Valence-delocalised Mixed-valence States; The Effect of the Substitution Pattern of 1,2-, 1,3- and 1,4- $[\text{C}_6\text{H}_4(\text{NH})_2]^{2-}$ as Bridging Ligands, 2397

Preparation of Zeolites incorporating Molybdenum Sulfide Clusters with High C_2 Hydrocarbon Selectivity in CO-H_2 Reactions, 2533

MONENSIN

Dansyl-modified β -Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721

MONOALKYLSTANNANE

Monoalkylstannanes as a New Source of Allyl Radical Transfer, 2387

MONOCLONAL ANTIBODY

Towards Selective DNA Targeting: Synthesis of an Antibody-Macrocycle-Intercalator Conjugate, 1879

MONOFLUOROPHOSPHONATE

Monofluorophosphonates as Phosphate Mimics in Bioorganic Chemistry: a Comparative Study of CH_2 -, CHF - and CF_2 -Phosphonate Analogues of *sn*-Glycerol-3-phosphate as Substrates for *sn*-Glycerol-3-phosphate Dehydrogenase, 719

MONOLAYER

Enantioselective Binding of α -Amino Acids at Poly(L-glutamic acid)-functionalized Monolayer Surfaces, 2119

A Novel Method for Oxide Surface Modification using Functionalised Diphosphine Complexes, 2129

MONOPROTECTION

Highly Selective Monotetrahydropyranlation of Symmetrical Diols Catalysed by a Strongly Acidic Ion-exchange Resin, 2491

MONOSACCHARIDE

A Novel Strategy for Regio- and Stereo-control in Glycosylation Reactions: Template-directed Cyclo-glycosylation of Monosaccharides, 2005

MONTMORILLONITE

Characterization of Montmorillonite Colloids containing a Clay-adsorbed Bipolar Poly(pyridyl)osmium(II) Complex, 1821

MORDENITE

A Defect-free Mordenite Membrane synthesized by Vapour-phase Transport Method, 1967

MORPHOLINE

Reaction of [60]Fullerene with Morpholine and Piperidine: Preferred 1,4-Additions and Fullerene Dimer Formation, 2023

MORPHOLINOSPHINGOSINE

A Concise Enantioselective Synthesis of *N*-Morpholinospingosines from *D*-Aspartic Acid, 123

MÖSSBAUER

Spectroscopic and Electrochemical Observation of Both 17- and 19-Electron States of an Inorganometallic Transition Metal Complex: $[\text{Fe}^{\text{III}}(\eta^5\text{-C}_5\text{Me}_5)(\text{S}_2\text{CNMe}_2)_2]$, 249

Electronic Communication and Switching between two Iron Atoms across the Phenanthrene-Dihydrophenanthrene Bridging Ligands, 1565

Pronounced Effects of Ring Tilting on the Intramolecular Electron-transfer Rate in Mixed-valence Polyalkyl-substituted Biferrocenium Cations, 2453

MTBE

Single-pot Synthesis of Methyl *tert*-Butyl Ether from *tert*-Butyl Alcohol and Methanol: Dodecatungstophosphoric Acid supported on Clay as an Efficient Catalyst, 203

MULTIQUANTUM WELL

Photoluminescence Studies of Chemical Adsorption of GaAs/ $\text{Al}_x\text{Ga}_{1-x}\text{As}$ Multiquantum Well Semiconductor, 1439

MYOGLOBIN

The Catalytic Activity of Human Myoglobin is Enhanced by a Single Active Site Mutation: F43Y, 2305

Photoinduced Electron Transfer from Zinc Porphyrin to a Linked Quinone in Myoglobin, 2503

NAFION

Chirality Inversion in HZSM-5 and Nafion-H Solid Acid-catalysed Synthesis of Ethers from Alcohols *via* Surface S_2 Reaction, 1849

NANOPARTICLE

Enhanced Photopolymerization of Diacetylene in Colloidal Gold Solution, 1525

Preparation and Characterization of Fe_2O_3 Nanoparticles in Mesoporous Silicate, 1617

Synthesis and Reactions of Functionalised Gold Nanoparticles, 1655

The Formation of Nanoparticulate Cobalt Carbide, Co_2C ,

Encapsulated in an Amorphous Siliceous Matrix, 2065

NANOSTRAW

Efficient Cleavage of Carbon Graphene Layers by Oxidants, 173

NANOTUBE

Efficient Cleavage of Carbon Graphene Layers by Oxidants, 173

Filling Carbon Nanotubes with Small Palladium Metal Crystallites: the Effect of Surface Acid Groups, 1355

Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 1803

Corrigendum: Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 2579

NAPHTHALENE

The Catalytic Fries Rearrangement of Acyloxy Naphthalenes using Scandium Trifluoromethanesulfonate as a Catalyst, 1527

Syntheses of New Sensitizer-Donor Dyad Compounds with a Rigid Spacer, 2139

The Structures of Solvent-separated Naphthalene and Anthracene Radical Anions, 2393

Optically Active Naphthalene- $\text{Cr}(\text{CO})_3$ Complexes *via* Diastereoselective Carbene Annulation and Haptotropic Metal Migration, 2535

NAPHTHALENESULFONIC ACID

Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 447

Corrigendum: Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 1195

NAPHTHOQUINONE

Novel Naphthoquinone Methide Dyes for Second-order Nonlinear Optical Materials, 969

NAPHTHYL

Formation and Isolation of Huge Cyclic Oligomers: Polycondensation of 1,5-Bis(1-hydroxy-3,6,9-trioxanonyl)naphthalene and Terephthaloyl Chloride, 1621

NAPHTHYLETHYLAMINE

1-(1-Naphthyl)ethylamine and Derivatives thereof as Chiral Modifiers in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt-Alumina, 1421

NAPHTHYRIDINE

A Novel Dinuclear Ruthenium-1,8-Naphthyridine Catalyst for the Oxidation of Alcohols and the Epoxidation of Alkenes, 2465

NATURAL PRODUCT

Corrigendum: Cyclisation and Aromatisation of Carotenoids during Sediment Diagenesis, 1195

NAUCLEFINE

Regioselective Syntheses of the Indolopyridine Alkaloids Nauclefine, Angustine, Dihydroangustine and Nauclefine from a Common Intermediate, 1675

NAUCLETINE

Regioselective Syntheses of the Indolopyridine Alkaloids Nauclefine, Angustine, Dihydroangustine and Nauclefine from a Common Intermediate, 1675

NEAR-IR

New Neutral Nickel Dithiolene Complexes derived from 1,3-Dialkylimidazolidine-2,4,5-trithione, showing Remarkable Near-IR Absorption, 371

Preparation and Properties of Bis[5-(6-methyl-1,4-dithiafulven-6-yl)-2-thienyl]methanes affording Near-infrared Absorbing Cations by Oxidation, 557

NECINE BASE

A Stereocontrolled Route to Both Enantiomers of the Necine Base Dihydroxyheliotridane *via* Intramolecular 1,3-Dipolar Addition Using the Same Chiral Precursor, 2291

NEOCARZINOSTATIN

Preparation of the *A*-Ring of Neocarzinostatin and Kedarcidin Chromophores *via* a Stereocontrolled Base Mediated Isomerisation Reaction, 1971

NEODYMIUM

Novel Hydroboration of Highly Substituted Alkenes catalysed by Borohydride Complexes of Uranium, Neodymium and Zirconium, 979

NEOHALICHOLACTONE

Synthesis and X-Ray Crystallographic Structure of the Right-hand Hemisphere of Halicholactone and Neohalicholactone, 139

NEOPENYL

Intermolecular C-H Activation by Reactive Titanocene Alkylidene Intermediates, 145

NEUTRON DIFFRACTION

A Neutron Diffraction Study of the Acid Form of Zeolite Y and its Complex with Benzene, 2253

NICKEL

Ligand Stabilized Nickel Colloids, 31

Novel Electrochemical Reactivity of $\text{Ni}(\text{cyclam})\text{Br}_2$: Catalytic Carbon Dioxide Incorporation into Epoxides, 43

A Heptanuclear $\text{Cr}^{\text{III}}\text{Ni}^{\text{II}}_6$ Complex with a Low-lying $S = 15/2$ Ground State, 61

Synthesis and Characterisation of a Novel Macrocyclic Vinylsiloxane-based $\text{Tris}(\text{alkene})\text{nickel}(\text{0})$ Complex, 87

An Organic/Inorganic Hybrid Layered Polymer: Methacrylate-Magnesium(Nickel) Phyllosilicate, 241

The New Synthetic Metals of $\text{M}(\text{dmise})_2$: $[\text{Me}_3\text{HN}][\text{Ni}(\text{dmise})_2]_2$ and $(\text{EDT-TTF})[\text{Ni}(\text{dmise})_2]$, 351

New Neutral Nickel Dithiolene Complexes derived from 1,3-Dialkylimidazolidine-2,4,5-trithione, showing Remarkable Near-IR Absorption, 371

$[\text{NiCl}_2(\text{PPh}_3)_2]$ catalysed Transfer Hydrogenation of Ketones and Aldehydes by Propan-2-ol, 465

The Reaction of $[\text{Ni}(\text{acac})_2]$ with Triethoxysilane in the Presence of PPh_3 : a New Method for Synthesis of $[\text{Ni}(\text{acac})\text{Et}(\text{PPh}_3)]$, 717

A Novel Bis(*N,N'*-dimethyl-1,4,7-triazacyclononane)calix[4]arene Ligand that forms a Ferromagnetic Dinuclear Nickel(II) Complex with Three End-on Azide Bridging Ligands, 929

Benzotriazole-mediated Assembly of the Discrete Asymmetric Pentanuclear Nickel Complex $[\text{Ni}_5(\text{OH})(\text{bta})_5(\text{acac})_4(\text{H}_2\text{O})_4]$ (*Hbta* = benzotriazole, *Hacac* = pentane-2,4-dione), 1347

Trinickel(II) Complex of an Acyclic Thiophenolate Ligand: the X-Ray Crystal Structure of $[\text{Ni}_3\text{L}_2\text{Ni}](\text{ClO}_4)_2(\text{H}_2\text{O})$ Reveals Alternating Square-planar and Octahedral Nickel Ions, 1493

Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (*Hpyhy*) and Complexes of *pyhy* with Nickel(II) and Copper(II), 1521

A Two-dimensional Bimetallic Assembly, $[\text{Ni}(\text{pn})_2]_2[\text{Fe}(\text{CN})_6]\cdot\text{ClO}_4\cdot 2\text{H}_2\text{O}$, with a Square Structure, 1545

Host Molecules containing Electroactive Cavities obtained by the Molecular Assembly of Redox-active Ligands and Metal Ions, 1643

Formation of the First Heterobimetallic Phosphido-bridged σ - π -Acetylide Complex $[(\text{C}_5\text{H}_5)_2\text{Ti}(\mu\text{-}\sigma,\eta^2\text{-C}\equiv\text{CPh})(\mu\text{-PPH}_2)\text{Ni}(\text{PPh}_3)]$ by Cleavage of the Central C-C Single Bond in $\text{PhC}\equiv\text{C}\equiv\text{CSiMe}_3$ and of the P-C Bond in Ph_3P , and Coupling of the Fragments to $\text{PhC}\equiv\text{CSiMe}_3$, 1753

Synthesis and Characterization of a Trigonal Monopyramidal Nickel(II) Complex, 1777

Nickel-catalysed Substitution Reactions of Allylic Compounds with Soft Nucleophiles: an Efficient Alternative to Palladium Catalysis, 1863

Magnetic Exchange Coupling in a Nearly Linear Iron(III)Nickel(II)-Nickel(II)Iron(III) Complex, 1913

New Polynuclear Nickel Complexes with a Variety of Pyridonate and Carboxylate Ligands, 1983

First Macrocyclic to Incorporate Phenol and Thiophenol Head Units: the X-Ray Crystal Structure of $[\text{Ni}_2\text{L}(\text{MeCN})_2](\text{ClO}_4)_2$ reveals Bridged Square-planar and Octahedral Nickel(II) Ions, 2075

Effect of the Bite Angle of Diphosphine Ligands on Activity and Selectivity in the Nickel-catalysed Hydrocyanation of Styrene, 2177

New Electrochemical Synthesis of Ketones from Organic Halides and Carbon Monoxide, 2331

Versatility of the Azido Bridging Ligand in the First Two Examples of Ferro-Antiferromagnetic Alternating Nickel(II) Chains, 2375

A Novel Route to Ladder-type Structures based on Hemiporphyrines, 2449

Nickel-catalysed Electrochemical Reductive Deprotection of Allyl Ethers, 2497

NIObIUM

Regio- and Stereo-selectivity in the Hydrogenation of Aryl Phosphines by Niobium Aryloxide Compounds, 849

C-H Activation and Nitrile Insertion Reactions of a Cationic Niobium Alkylidene Complex, 2421

NITRATE

Anion Exchange Membranes for Nitrate Ion Removal from Groundwater by Electrodialysis, 1153

NITRATION

Anomalous Nitrations of α,β -Unsaturated Esters: a Role for α -Carbonyl Cations?, 559

NITRENE

Aziridination of Alkenes using 3-Acetoxyaminoquinazolin-4-(3*H*)-ones in the Presence of Tertiary Amines: Evidence for an Azaimide (*N*-Nitrene) Intermediate, 819

Aziridino[2',3':1,2][60]fullerene, 885

Aziridino[2',3':1,6][60]fullerene: Isolation of the First Closed [5,6]-bridged Fullerene Adduct, 887

Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899

NITRIC OXIDE

Fast Formation of NO in Reactions of Alkyl Nitrites with Ascorbic Acid and Analogues, 169

Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 485

Novel Reactions of Nitric Oxide in Biological Systems, 915

Corrigendum: Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 1309

NITRIDE

Synthesis and Catalytic Bifunctional Properties of Tungsten Oxytrinitrides, 359

Conversion of a Molybdenum Nitride to the Amide and thence to an Oxide and Ammonia, Reactions involving Formal 1,3-Prototropic Shifts. X-Ray Structures of *trans*-[Mo(NH₂)(OH)(dppe)₂][OTf]₂ and *trans*-[MoO(OMe)(dppe)₂][BPh₄](dppe = Ph₂PCH₂CH₂PPh₂; OTf = CF₃SO₃), 1081

NITRIDO

[Cl₃Ga-NReCl₂(PMe₂Ph)₃] and [Cl₃Ga-NReCl(PMe₂Ph)₃-(NCMe)][GaCl₄]: the First Complexes with Nitrido Bridges between Main Group and Transition Metals, 2047

Synthesis and Molecular Structure of the First Organometallic Nitride Cubane: {[Ti(η^5 -C₅Me₅)]₄(μ_3 -N)₄}, 2185

NITRILE

First Cobalt(II)-catalysed Heterocyclotrimerization of Ethyne with Nitriles to Pyridines in Water under Mild Conditions, 179

Catalytic Synthesis of Unsaturated Nitriles from NO-Alkane or NO-Alkene on Pt-Sn/SiO₂, 329

NITRILE OXIDE

Corrigendum: Synthesis of 3-Vinylisoxazole by a Nitrile Oxide Cycloaddition/Diels-Alder Cycloreversion Pathway, 911

NITRITE

Fast Formation of NO in Reactions of Alkyl Nitrites with Ascorbic Acid and Analogues, 169

NITRO

Corrigendum: Mechanism of a Novel Spirocyclisation Reaction: Intramolecular Oxygen Transfer to Carbon Radicals by Nitro Groups, 291

Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Direct Oxidation of Primary Amines to Nitro Compounds with TBHP, 1523

The Synthesis and Crystal Structures of the Tetraphenylarsonium Salts of [V₂O₃(NO₃)₂X₄]²⁻, X = Cl or NO₃, 1733

NITRO-ALDOL

New Strategy for the Synthesis of the Taxane Diterpenes: Formation of the A-Ring via Nitro-aldol and Aldol Reactions, 1933

NITROAROMATIC

Electron Transfer from Tetracarbonylrhodate(1-) to Nitro Aromatics: Novel Interaction of Nitro Radical Anions with a Rhodium(I) Centre, 2441

NITROAZOBENZENE

Functionalized Azo Dyes by Direct Ullmann Coupling, 245

NITROGEN

Nitrogen-15 Detection of Broad Amide Protons in Paramagnetic Proteins, 105

Stable Palladium(0) and Palladium(II) Complexes Containing a New, Multifunctional and Semi-labile Phosphorus-Bisnitrogen Ligand, 331

The First Solid State Paramagnetic 1,2,3,5-Dithiadiazolyl Radical; X-Ray Crystal Structure of [p-NCC₆F₄CN₂SSN]⁻, 679

Tris(dimethylamino)sulfonium, TAS, 1,1,3,5-tetrafluoro-1,3,5-trioxo-1 λ^6 ,3 λ^6 ,5 λ^6 ,2,4,6-trithiatriazinane-Synthesis and Crystal Structure, 1113

Selective Redistribution Reactions of Tetraphosphorus Hexaoxide; Crystal Structure of P₄O₆NC₆H₅, 1509

P₃N₃F₃NPF₂NPF₂NPF₂2⁻: a Cyclophosphazene with a Phosphazene Side-chain Dianion by F⁻-induced Ring-opening of P₃N₃F₆, 1717

The First Chelating Phosphorus-Nitrogen Dioxo Ligand: Complexation of a MoO(O₂)₂ Fragment, 1871

Gas-phase Generation and Spectroscopy of the Unstable NCCNO Molecule, 1901

NITROGEN DIOXIDE

Conversion of Ketals to Ketones by Nitrogen Dioxide in the Presence of Silica Gel, 1121

NITROGEN HETEROCYCLE

Highly Selective Asymmetric Intramolecular Selenocyclisation, 2321

NITROGEN MONOXIDE

NH₃ Formation during the Reduction of Nitrogen Monoxide by Propane on H-Cu-ZSM-5 in Excess Oxygen, 89

NITROGEN OXIDE

Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 427

Detection of Surface CN and NCO Species as Possible Reaction Intermediates in Catalytic Lean NO_x Reduction, 813

Corrigendum: Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 1195

NITRONE

The Synthesis of Novel 3,4-Dihydro-1,2,5,7,4-tetroxazocine Derivatives via Extended [3 + 3 + 2] Cycloaddition Reactions between a Carbonyl Oxide, a Nitron and an Aldehyde, 1469

NITRONYL NITROXIDE

Coexistence of Intermolecular Ferromagnetic Interaction and [NHN]⁺ Hydrogen Bond in *N*-Protonated *m*-Pyridyl Nitronyl Nitroxide, 827

NITROSO

Deamination of *N,O*-Dialkylhydroxylamines via *N*-Nitroso-*N,O*-dialkylhydroxylamines: a New Reaction, 1855

NITROSOALKANE

Formation of a Chelating Bidentate Nitrosoalkane Complex of Ruthenium(II) through Reaction of H₂O with a High-valent Bis(imido)ruthenium Intermediate and X-Ray Crystal Structure of [Ru(bpy)₂(ONCMe₂CMe₂NO)][ClO₄]₂·Me₂CO, 441

NITROXIDATION

Catalytic Synthesis of Unsaturated Nitriles from NO-Alkane or NO-Alkene on Pt-Sn/SiO₂, 329

NITROXIDE

Control of the Structural Dimensionality in Hydrogen-bonded Self-assemblies of Open-shell Molecules. Extension of Intermolecular Ferromagnetic Interactions in α -Phenyl Nitronyl Nitroxide Radicals into Three Dimensions, 709

Novel pH-Sensitive Nitroxide Di- and Tri-radical Spin Labels, 723

Synthesis of Stable α,α' -Bis(carboxymethyl) Substituted Nitroxides via an Original Dianion-based Strategy, 1029

Ferromagnetic Spin Interaction in a Crystalline Molecular Complex Formed by Inter-heteromolecular Hydrogen Bonding: a 1:1 Complex of Phenyl Nitronyl Nitroxide Radical and Phenylboronic Acid, 1861

NMR

Nitrogen-15 Detection of Broad Amide Protons in Paramagnetic Proteins, 105

Intermolecular C-H Activation by Reactive Titanocene Alkylidene Intermediates, 145

Generation and Characterisation of Dimesitylphenylborane Dianions, 233

A Simple *In Situ* ³¹P NMR Method for the Determination of the Enantiomeric Purity of Aromatic Substrates, 689

Structural Order in MCM-41 controlled by Shifting Silicate Polymerization Equilibrium, 711

Regio- and Stereo-selectivity in the Hydrogenation of Aryl Phosphines by Niobium Aryloxide Compounds, 849

Catalytic Conversions in Water: ¹⁷O, ¹H and ³⁵Cl NMR Study of a Novel Stoichiometric Redox Reaction Between PdCl₂, tppts and H₂O [tppts = P(C₆H₄-*m*-SO₃Na)₃], 1105

NMR Diffusion Coefficients of *p-tert*-Butylcalix[*n*]arene Systems, 1183

Diepoxy[15]annulenes undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by ¹³C/¹⁷O NMR Spectroscopy, 1213

Stereodynamics of Neutral Six-coordinate Silicon Chelates: Evidence for Two Non-dissociative Rate Processes, 1253

Magnetic Properties of Vanadium Phosphorus Oxide Catalysts Studied by Spin Echo Mapping ³¹P NMR, 1323

A New MAS NMR Probe for *in situ* Investigations of Hydrocarbon Conversion on Solid Catalysts Under Continuous-flow Conditions, 1423

Simultaneous Binding of Boron and Ammonium Cation by a Pseudocryptand: Synthesis, X-Ray Analysis and Solution Studies by NMR Spectroscopy, 1505

Evidence for the Chemical Nature and Ordering of Cobaltocene Intercalated in CdPS₃ using Single Crystal Solid State ²H NMR Spectroscopy, 1657

¹⁹F to ¹H and ¹H to ¹⁹F Cross Polarization MAS NMR of Trifluoroethanol Chemisorbed on Magnesium Oxide, 1795

Direct NMR Observation of Atropisomerism of a Bisphosphite Dibenzo[d,f][1,3,2]dioxaphosphepin Moiety, 1805

NMR Studies of the Electronic Structure of Low-spin Iron(III) Phosphonite Complexes: Unusual (d_{xz},d_{yz})⁴ (d_{xy})¹ Configuration, 2093

Spirolides B and D, Two Novel Macrocycles Isolated from the Digestive Glands of Shellfish, 2159

On the Feasibility of Iron or Chromium Substitution for Aluminium in the Al₁₃-Keggin Ion, 2269

- Unusual Six- and Eight-coordinated Cadmium(II) Malonate Complex: Relevance to ^{113}Cd NMR Probe of Metal Binding Sites on Metalloproteins, 2333
- Closed-shell Ion Pair Aggregation in Non-Polar Solvents characterized by NMR Diffusion Measurements, 2513
- NON-LINEAR OPTICS**
- The Third-order Optical Non-linearity of the Phenylethynyl-substituted Benzene System, 55
- Functionalized Azo Dyes by Direct Ullmann Coupling, 245
- Synthesis and Aggregation Properties of Novel Soluble 'Crowned' Metalloporphyrin Hemiporphyrins, 419
- The Diazonium Group: an Electron Acceptor for Large Molecular Hyperpolarizabilities, 635
- Novel Naphthoquinone Methide Dyes for Second-order Nonlinear Optical Materials, 969
- Hydrogen-bonding Control of Molecular Aggregation: Self-complementary Subunits lead to Rod-shaped Structures in the Solid State, 1251
- NONA PEPTIDE**
- Facile Formation of a *cis*-Platin-Nonapeptide Complex of Human DNA Polymerase- α Origin, 1731
- NONACYCLE**
- 1,3,7,9,11,15,17,19,23,25,27,34-Dodecaazanonacyclo-[25.5.3.2^{6,9}.2^{14,17}.2^{22,25}.13.7.111.15.1^{19,23}.0^{30,34}]tetratetracontane, 1631
- NORBORNADIENE**
- Isoyanide Insertion into the Palladium-Carbon Bond of [PdMe(L-L)Cl] Complexes and the Reactivity of the Products toward Norbornadiene; X-Ray Crystal Structure of [Pd{C(=NC₆H₃Me₂-2,6)Me}(bpy)Cl] [L-L = bpy or phen], 2233
- NORBORNANONE**
- Reaction of C₆₀ with Cyclopent-2-enone Acetals. A Convenient Access to Chiral C₆₀ Derivatives, 1769
- NORBORNENE**
- Ruthenium-based Catalysts for the Ring Opening Metathesis Polymerisation of Low-strain Cyclic Olefins and of Functionalised Derivatives of Norbornene and Cyclooctene, 1127
- NORCAMPHOR**
- Stereo- and Enantio-controlled Synthesis of (+)-Juvabione and (+)-Epijuvabione from (+)-Norcamphor, 2403
- NORCARADIENE**
- Rh₂(OAc)₄-Catalysed Cycloaddition of Ethyl Diazoacetate to 1,2-Dialkoxybenzenes: a New Type of Stable Norcaradiene, 101
- NORMAL MODE**
- Investigation of the Influence of the Cations to Normal Modes of Y Zeolites: Vibrational Studies and Computer Simulations, 2481
- NORRISH**
- Influence of β -Silyl Groups in Cycloalkanones on the Norrish Type I and Type II Cleavages, 299
- Norrish Type I Photoreaction in the Presence of Phenols; an Intermolecular Photo-Fries Rearrangement, 2009
- NQR**
- Geometric and Electric Properties of the Donor-Acceptor Complex H₃N-BF₃, 113
- NUCLEAR WASTE**
- Calix[n]arene Phosphine Oxides. A New Series of Cation Receptors for Extraction of Europium, Thorium, Plutonium and Americium in Nuclear Waste Treatment, 2151
- NUCLEASE**
- Nuclease Activity of a Hydroxamic Acid Derivative in the Presence of Various Metal Ions, 1413
- NUCLEOBASE**
- Directed Metallation of Adenine-N³ via Nucleobase-Ligand Conjugation, 2285
- NUCLEOPHILE**
- A Reaction of γ -Chalcogen-substituted Prop-2-ynyl Cations with Mild Nucleophiles, 149
- NUCLEOPHILIC ATTACK**
- Associative Substitution Mechanisms of Clusters: the Relationship between Sites of Nucleophilic Attack and Leaving Group Dissociation, 1905
- NUCLEOPHILIC SUBSTITUTION**
- Evidence for a Concerted S_N2' Mechanism in the Gas-Phase Acid-induced Nucleophilic Substitutions on Allylic Substrates, 547
- Complete Retention of Configuration in the Nucleophilic Substitution of 1-Phenylbenzo[b]thiophenium Salts by Alkoxide Anions, 1375
- NUCLEOSIDE**
- Total Synthesis of 2'-Deoxy-2'-arafluorotocamycin and Related Nucleosides, 115
- Determination of the Full Structure and Absolute Stereochemistry of the Antifungal Agent FR-900848: an X-Ray Crystallographic Study of (1R,3S,4R,6S,7S,9R,10S,12R)-Quatercyclopropyl-1,12-dimethanediyl Di-4-bromobenzoate, 1143
- NUCLEOTIDE**
- Methylene Blue Intercalates with Triplex Poly(dT)*Poly(dA)*Poly(dT) but not Duplex Poly(dA)*Poly(dT), 53
- Binding of Nucleotides in Water by Phenanthridinium Bis-(intercaland) Receptor Molecules, 1073
- Diastereoisomerically Pure Dinucleosidylphosphorofluoridites and their Application in Stereospecific Synthesis of Dinucleosidylphosphorofluoridothionates, 1435
- Multifunctional Molecular Recognition of ATP, ADP and AMP Nucleotides by the Novel Receptor 2,6,10,13,17,21-Hexaaza[22]-metacyclophane, 2237
- A Topological Rubber Glove obtained from a Synthetic Single-stranded DNA Molecule, 2249
- Oligosapphyrins: Receptors for the Recognition and Transport of Nucleotide, Di- and Tri-phosphates, 2349
- NUCLEOTIDE TRIPLEX BASE**
- Novel Nucleotide Bases for DNA Duplex Recognition by Triple Helix Formation, 1589
- OCTADIENE**
- Dialkylation of α -Diketone Ketals with 1,8-Bis(trimethylsilyl)octa-2,6-diene, 1847
- OCTAETHYLVERDOHAEM**
- Crystallographic Characterization of Octaethylverdohaem, 873
- OCTAHYDROBOTRYOCOCENE**
- Identification of 1,6,17,21-Octahydrobotryococene in a Sediment, 335
- OCTALACTAM**
- Amide-based Furano-catenanes: Regioselective Template Synthesis and Crystal Structure, 777
- OCTALIN**
- Ionic 'Diels-Alder' Reactions of Hexa-3,5-dienyl Trimethylsilyl Ether and Enones: X-Ray Structural Determination of Adduct Stereostructure, and a Stereoselective Approach to *Trans*-fused Octalin Systems, 2479
- OCTANOL**
- Rapid Estimation of Octanol-Water Partition Coefficients using Deoxycholate Micelles in Capillary Electrophoresis, 2241
- OKADAIC ACID**
- Biosynthetic Studies of the DSP Toxin DTX-4 and an Okadaic Acid Diol Ester, 1623
- OLIGOBIPYRIDINE**
- A General Synthetic Strategy for Functionalized Oligo(bipyridines): New Building Blocks for Supramolecular Chemistry and their First Application in Macromolecules, 69
- Self-assembly of Rigid-rack Multimetallic Complexes of Rotaxane-type, 715
- OLIGOMER**
- A Novel Route to Ladder-type Structures based on Hemiporphyrins, 2449
- OLIGOMERISATION**
- Oligomerisation of Phenylacetylene at a Polynuclear Site; the Molecular Structure of [Ru₆C(CO)₁₂(μ_2 -CO)(η^5 -C₅H₅Ph₂)(μ_3 -CPh)], 1263
- A Convenient Molecular Self-assembly Route to Thin Films containing Terminal Donor Ligands and Anchored Organotransition-metal Complexes for Heterogenized Homogeneous Catalysis, 1577
- Organolanthanide-catalysed Oligomerisation of 2-Cycloalken-1-ones, 1741
- OLIGONUCLEOTIDE**
- DNA Cleavage by a 'Metalloporphyrin-spermine-oligonucleotide' Molecule, 181
- OLIGOPEPTIDE**
- Thermal Control over the Extent of Photoinduced Electron Transfer in Helical Oligopeptides, 313
- OLIGORIBONUCLEOTIDE**
- A Universal Solid-phase Synthesis of Branched Oligoribonucleotides, 495
- ONCINOTINE**
- The Chiral Total Synthesis of (-)-Oncinotine, 1015
- OPTICAL ACTIVITY**
- Facile Synthesis of Vinyl Copolymers with Optical Activity Arising from the Configuration of Stereogenic Carbon Atoms in the Main Chain, 1235
- OPTICAL RESOLUTION**
- Optical Resolution of Methyl Phenyl and Benzyl Methyl Sulfoxides and Alkyl Phenylsulfonates by Complexation with Chiral Host Compounds Derived from Tartaric Acid, 639
- Optical Resolution of a Thermally Irreversible Photochromic Indolylfulgide, 785
- Optical Resolution of 1,3-Dimethyl-5-phenyl- Δ^2 -pyrazoline by Diastereoisomeric Complex Formation with an Optically Active Host Compound: X-Ray and Molecular Structure of the Complex, 1453
- OPTICAL SENSOR**
- Covalent Immobilisation of Solvatochromatic Dyes, 2445
- OPTOELECTRONICS**
- Synthesis and Optoelectronic Properties of Aromatic Oxadiazole Polymers, 2211
- ORGANIC HALIDE**
- New Electrochemical Synthesis of Ketones from Organic Halides and Carbon Monoxide, 2331

ORGANOBORANENovel Bicyclic Organoboranes *via* 1,1-Organoboration, 399**ORGANOBORON**

Generation and Characterisation of Dimesitylphenylborane

Dianions, 233

Synthesis of Ketones from Iodoalkenes, Carbon Monoxide and 9-Alkyl-9-borabicyclo[3.3.1]nonane Derivatives *via* a Radical Cyclization and Palladium-Catalysed Carbonylative Cross-coupling Sequence, 295**ORGANOFLUORINE**

Direct Syntheses of Pentakis(trifluoromethyl)cyclopentadienide Salts and Related Dienes, 841

¹⁹F to ¹H and ¹H to ¹⁹F Cross Polarization MAS NMR of Trifluoroethanol Chemisorbed on Magnesium Oxide, 1795**ORGANOGERMANIUM**A Stable Germa-imine: *N*-2,4,6-Trifluorophenyldimesitylgerma-imine; Synthesis and Reactivity, 1687**ORGANOIMIDO**A 'Direct' Relationship between E=Ti-L Bond Angle and Ti=E Bond Length can exist in [Ti(E)L₄] Complexes (E = Organoimido or Oxo), 2357**ORGANOLITHIUM**

Novel Boron-Nitrogen Containing Compounds from the Reaction of Organolithiums with Complexes between Dimesitylfluoroborane and Six- or Five-membered Aza Aromatic Compounds, 2069

ORGANOPHOSPHORUSSynthesis of Alkylidene phosphoranes by Extrusion of Nitrogen from 3-Alkylidene-4,5-dihydro-3*H*-1,2,4-diazaphospholes, 25

[3 + 2] Annulation of Allylidene(triphenyl)phosphorane with 1,2-Diacetylenes: Synthesis of Substituted Cyclopentadienes, 449

Synthesis and X-Ray Crystal Structural Analysis of a Fully Unsaturated Tetraphosphole Macrocycle, 1561

An Alkylphosphonyl Nucleophilic Substitution Reaction that proceeds by an Elimination-Addition Mechanism with an Alkylideneoxophosphorane (Phosphene) Intermediate, 1701

ORGANOSILANE

H/D Exchange of Organosilanes catalysed by Heterogenised Zirconium Hydride Complexes, 137

ORGANOSILICONPredominance of Unrearranged Products in the Reactions of the Iodide (Me₃Si)₃CSi(CD₃)₂I with Silver Salts, and its Mechanistic Implications, 705**ORGANOSULFUR**

Novel Sulfurated Five-, Seven- and Nine-membered Heterocycles: Unusual Products derived from Potential Bisthionitroxide Precursors, 1449

ORGANOTELLURIUM

The Structure of a Stable New Organotellurium Azide: Bis-Azidodiphenyltellurium(IV) Oxide, 1609

ORGANOTINA Li₂Br₂ Ring Trapped by *tert*-Butylaminotin(II)bromide and *tert*-Butylamine as found by X-Ray Crystallography, 213**ORGANOTITANIUM OXIDE**Organotitanium Oxides as Lewis Acidic Supports of Metal Carbonyl Species: [(Ti₃(η⁵-C₅Me₅)₃(μ-O)₃Me){(μ-OC)M(CO)₂(η⁵-C₅H₅)₂}] (M = Mo, W), 551**ORGANOZINC**

A Mixed Organozinc-Diorganophosphide Complex containing Protic Phosphine Ligands Bonded to Zinc, 1989

ORIENTATION

In-plane Orientation in Langmuir-Blodgett Films of Triazolephthalocyanines, 1673

Design of Organic Superstructure based on a Preorganised Donor-Acceptor Unit, 2193

ORTHOMETALLATION

The Synthesis and Single-crystal X-Ray Structure of the First Example of a Tridentate, Di-orthometallated Triphenyl Phosphite Complex, 2049

OSMIUM

Triosmium Cluster Derivatives of [60]Fullerene, 15

Synthesis and Molecular Structure of the Novel Triosmium Bis-(benzene) Cluster [Os₃(CO)₆(η⁶-C₆H₆)(μ₃:η²:η²:η²-C₆H₆)], 189A Method of Making Os-R₂ Bonds: Chemistry and Structure of Meridional [Os{S(CH₂Ph)₂}₃Br₃], 477A Dihydrogen Complex, [Os(η²-H₂)(CO)(quS)(PPh₃)₂]⁺, in Equilibrium with its Coordinated Thiol Tautomer (quS = quinoline-8-thiolate), 625Polynuclear Clusters of Fused-ring Hydrocarbons. The Synthesis and X-Ray Structure of [Os₄H(CO)₉(μ₃-η²-η²-η⁵-C₁₃H₁₅)] (C₁₃H₁₅ = 1,3-diethylindenyl), 755Dynamic Disorder in [Fe₂Os(CO)₁₂]. Structural Evidence of the Metal Triangle Rotation, 1219*nido*-[{(C₅Me₅)Ir}₃H₇(PPh₃)₂(CO)Os}], *closo*-[{(C₅Me₅)Ir}₃H₄H₆(PPh₃)₂(CO)Os] and *pileo*-[{(PPh₃)COHr}₃H₅-{(PPh₃)₂(CO)Os}]: a Unique Homologous Series of Iridosmaborane Cluster Types, 1285

Characterization of Montmorillonite Colloids containing a Clay-adsorbed Bipolar Poly(pyridyl)osmium(II) Complex, 1821

New Homoleptic Metal Carbonyl Cations: the Syntheses, Vibrational and ¹³C MAS NMR Spectra of Hexacarbonyl-ruthenium(II) and -osmium(II) Undecafluorodiantimonate(V), [Ru(CO)₆][Sb₂F₁₁]₂ and [Os(CO)₆][Sb₂F₁₁]₂, 2071**OVERMAN REARRANGEMENT**

Total Synthesis of (+)-Lactacystin from D-Glucose, 793

OXABORANEMacropolyhedral Boron-containing Cluster Chemistry-The Nineteen-vertex Oxaborane Anion, [OB₁₈H₂₁]⁻, 1665**OXALATE**

Novel Synthesis of Oxalate from Carbon Dioxide and Carbon Monoxide in the Presence of Caesium Carbonate, 633

Remarkable Decrease in Overpotential of Oxalate Formation in Electrochemical CO₂ Reduction by a Metal-Sulfide Cluster, 1223Synthesis and Magnetism of Mixed Valency [N(*n*-C₄H₉)₄ or P(C₆H₅)₄]Cr^{II}Cr^{III}(C₂O₄)₃, 1513**OXALYL AMIDE**

A Novel Type of Small Organic Gelators: Bis(Amino Acid) Oxalyl Amides, 1723

OXALYL CHLORIDEReaction of *N*-Benzoyl Amino Acids with Oxalyl Chloride: a Facile Route to 4-Substituted 2-Phenyloxazole-5-Carboxylates, 2335**OXATHIANE**

Intramolecular Pummerer Reaction of γ,δ-Unsaturated Sulfinyl Compounds, 1197

OXAZOLE

Reactions of Acyl Isothiocyanates with Diphenyldiazomethane: a Route to Oxazole Derivatives and Thietan-3-imines, 67

OXAZOLIDINONE

Diastereoselective Radical Addition to Methyleneoxazolidinones: an Enantioselective Route to α-Amino Acids, 549

Formation by Mixing of Chiral Host-Achiral Guest Inclusion Complexes in which the Guest Molecules are Arranged in a Chiral Form. Production of Optically Active Photoacylation Compounds by Irradiation of the Inclusion Complexes, 1719

OXIDATION

Formation of Methanol by the Gas Phase Partial Oxidation of Methane under Normal Pressures, 93

Sulfoxides of High Enantiopurity from Bacterial Dioxxygenase-catalysed Oxidation, 119

Synthesis and Characterization of a Novel Vanadium Analogue of ALPO-31, 151

Coordination and Oxidation of Vanadium(II) by 1,2-Bis(2-sulfidophenylsulfanyl)ethane(2-)(S₄): the Structures of [V(S₄-tmeda)]₂, the First Example of Vanadium(II)-Sulfide Coordination, and of [V₃(μ-O)₂(S₂)₄(tmeda)₂] (S₂ = 1,2-benzenedithiolate(2-)), 165

Efficient Cleavage of Carbon Graphene Layers by Oxidants, 173

n-Butane Oxidation to Maleic Anhydride and Furan with no Carbon Oxide Formation using a Catalyst derived from VO(H₂PO₄)₂, 243

Use of Dioxiranes for the Chemoselective Oxidation of Tertiary Amines bearing Alkene Moieties, 293

Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ induced Triphase Catalysis in the Oxidation of Hydrophobic Organic Compounds with Significant Enhancement of Activity and *Para*-Selectivity, 349

Total Oxidation of Chlorinated Hydrocarbons by Copper and Chlorine based Catalysts, 365

Oxidation of Isopropylbenzene by Iron Tetraphenylporphyrin: Evidence for the Interaction of the Cumyl Radical with Oxygen Donors, 429

Air Oxidation of a Manganese(III) Thioether Chelate affords the First Manganese(III) Dihydroxalen Complex with a Pendant Sulfoxide Ligand, 535

Arylalkane Oxidation by Dioxo[4,4'-di(*tert*-butyl)-2,2'-bipyridyl]-molybdenum(VI) Complexes, 655Oxidation of C₂, C₃ and Higher Alkanes by a Ruthenium-Oxo System, 943Acid Enhancement Effect in the Clean Oxidation of Toluene Photocatalysed by TiO₂, 1119

Enantioselective Oxidation of 1,3-Dithioacetals Catalysed by Cyclohexanone Monooxygenase, 1123

Metal-catalysed Enantiospecific Aerobic Oxidation of Cyclobutanones, 1247

Use of Trimethylamine *N*-Oxide in the Controlled Air-oxidation of Metal Carbonyl Complexes; Synthesis and Crystal Structure of a Novel Organometallic Oxo Complex of Dimolybdenum, 1269

Localized Basification of Catalytic Surfaces enhances the Selective Oxidation of L-Sorbose over Supported Pt Catalysts modified with Tertiary Amines, 1377

Chromium Silicalite-2 (CrS-2): an Efficient Catalyst for the Direct Oxidation of Primary Amines to Nitro Compounds with TBHP, 1523

Induced Homolysis of Dimethyldioxirane by Alkanes and Alkyl Radicals in Oxidation Processes. The Dramatic Role of Molecular Oxygen and Radical Inhibitors, 1573

Defects and Holes in the Mercury-based Oxide Superconductors: Relevance to High T_c Behaviour, 1595

- Oxidative Intramolecular Cyclization of 2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls affording Novel Bis(1,3-dithiole) Electron Donors, 1761
- The Effect of Ultrasound on Mass Transport to a Microelectrode, 1807
- A Novel Hexanuclear Heteropolyperoxo Oxidation Catalyst: Preparation, X-Ray Crystal Structure and Reactions of $[\text{NMe}_4]_3\text{-}[(\text{MePO}_3)\{\text{MePO}_2(\text{OH})\}\text{W}_6\text{O}_{13}(\text{O}_2)_4(\text{OH})_2(\text{OH}_2)]\cdot 4\text{H}_2\text{O}$, 2183
- Alkene Oxidation in Water using Hydrophobic Silica Particles derivatized with Polyoxometalates as Catalysts, 2277
- Selective Production of Hydrazine by a Catalytic Oxidation Process over Ti-, V-, Vi-V- and Ti-B-Silicalites, 2281
- MCM-41 as a Support for Small Platinum Particles: A Catalyst for Low temperature Carbon Monoxide Oxidation, 2283
- Synthesis and Catalytic Properties of Mesoporous Tin Silicate Molecular Sieves, 2495
- OXIDATION CATALYST**
- Molecular Modelling of Supported Metal Catalysts: SiO_2 -grafted $[\{\{\eta^3\text{-C}_4\text{H}_7\}_2\text{Rh}\}_2\text{V}_4\text{O}_{12}]$ and $[\{\text{Rh}(\text{C}_2\text{Me}_5)_3\}_4\text{V}_6\text{O}_{19}]$ are Catalytically Active in the Selective Oxidation of Propene to Acetone, 1301
- OXIDATION STATE**
- Geometric Control of Manganese Redox State, 1035
- OXIDATIVE ADDITION**
- Energy Profile of a Rapid, Reversible Oxidative Addition Reaction, 2115
- OXIDATIVE CLEAVAGE**
- Observations on the Unusual Stereochemistry of the Oxidative Cleavage of Palladium-Carbon Bonds, 271
- Oxidative Cleavage of the Te-Te Bond in η^2 -Ditellurido Complexes: Syntheses and Structures of $\text{M}(\text{PMe}_3)_4(\eta^2\text{-Te}_2)\text{H}_2$ (M = Mo, W), 1099
- OXIDATIVE COUPLING**
- Polyfunctional Ligands: Comparative Oxidative Coupling of $[\text{E}(\text{PPh}_2)_2]^-$ (E = CH, N) with Iodine, 37
- Oxidative Coupling Reaction of CH_4 Using Oxide Ion and Electron Hole Mixed Conductive $\text{BaCe}_{0.8}\text{Gd}_{0.2}\text{O}_{3-\alpha}$ Ceramic as a Membrane Reactor, 1001
- Rhoipteleanins A and E, Dimeric Ellagitannins formed by Inter-molecular C-C Oxidative Coupling from *Rhoiptelea chiliantha*, 1467
- OXIDE**
- Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO_2 Films, 65
- Synthesis and Structure of $\text{Ba}_2\text{InO}_3\text{F}$: Oxide/Fluoride Ordering in a New K_2NiF_4 Superstructure, 353
- Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure, 485
- Oxidative Coupling Reaction of CH_4 Using Oxide Ion and Electron Hole Mixed Conductive $\text{BaCe}_{0.8}\text{Gd}_{0.2}\text{O}_{3-\alpha}$ Ceramic as a Membrane Reactor, 1001
- Formation of Singlet Oxygen in the Deoxygenation of Heteroarene N-Oxides by Dimethyldioxirane, 1831
- Intercalation of Oxide into $[\text{Zr}(\text{C}_5\text{Me}_5)_3\text{F}_3]$, 2145
- A Novel and Simple Route to Catalysts with a High Oxygen Storage Capacity: the Direct Room-temperature Synthesis of $\text{CeO}_2\text{-ZrO}_2$ Solid Solutions, 2181
- OXIDE SUPPORT**
- Supramolecular Approach to Metal-Support Interactions: Formation and Decarbonylation of Allyl Alcohol by an Oxide-supported (σ -Allyl)rhodium(III) Complex, 1875
- A Novel Method for Oxide Surface Modification using Functionalised Diphosphine Complexes, 2129
- OXIDOSQUALENE**
- Substitution of the Methyl Groups with Ethyl groups at C-10 and C-15 of 2,3-Oxidosqualene halts the Enzymatic Reaction of Oxidosqualene-Lanosterol Cyclase at the Monocyclic Ring Stage, 2401
- OXIME**
- Organoselenium-induced Stereoselective Cyclisation of *O*-Allyl Oximes: A New Synthetic Route to Isoxazolidines, 235
- The Remarkable Effect of *E/Z* Isomers on the Catalytic Asymmetric Hydrogenation of Oximes, 1767
- Cyclisation of Totally Unprotected Peptides in Aqueous Solution by Oxime Formation, 2021
- OXINDOLE**
- Tandem Radical Translocation and Homolytic Aromatic Substitution: a Convenient and Efficient Route to Oxindoles, 977
- OXIRANE**
- A Synthetic Route to Allenylidene Tetrahydrofurans, 897
- New Terpenoid Hosts for Chiral Recognition: Crystal Structure and Molecular Modelling Study of an Inclusion Complex with (*S*)-(+)-Phenylloxirane, 2229
- OXO**
- Copper-Dioxygen Reactivity Involved in the Formation of μ -oxo $[(\text{por})\text{Fe}^{\text{III}}\text{-O-Cu}^{\text{II}}\text{L}]^+$ Heterodinuclear Complexes (por = porphyrinate, L = tetradentate ligand), and Novel Synthesis of Square-Planar $\text{Fe}^{\text{II}}(\text{por})$ Species, 499
- Arylalkane Oxidation by Dioxo[4,4'-di(*tert*-butyl)-2,2'-bipyridyl]-molybdenum(vi) Complexes, 655
- Syntheses and Crystallographic Characterizations of Trinuclear ($\mu_3\text{-O}$) Zirconium Complexes, 823
- An Octameric Titanium Oxo Metallacycle with Host-Guest Interactions, 1231
- The First Chelating Phosphorus-Nitrogen Dioxo Ligand: Complexation of an $\text{MoO}(\text{O}_2)_2$ Fragment, 1871
- A 'Direct' Relationship between E-Ti-L Bond Angle and Ti=E Bond Length can exist in $[\text{Ti}(\text{E})\text{L}_4]$ Complexes (E = Organoimido or Oxo), 2357
- OXO CLUSTER**
- Solvent Dependent Ester Elimination Reactions in the Preparation of Mixed-metal Oxo Clusters: the Synthesis of $\text{PbSn}_2(\mu_3\text{-O})(\text{O}^t\text{Bu})_4(\text{OAc})_4$, 1041
- OXO COMPLEX**
- Redox Behaviour of the Oxo-bridged Diruthenium(III) Complex, $[\text{Ru}_2(\mu\text{-O})(\mu\text{-MeCO}_2)_2(\text{bpy})_2(\text{mim})_2]^{2+}$ in Acetonitrile in the Presence of Various Proton Donors (bpy = 2,2'-bipyridine, mim = 1-methylimidazole), 2125
- OXOBUTANOIC ACID**
- Enantioselective Syntheses of (*S*)- and (*R*)-3-Hydroxypyrrolidin-2-ones via Lactate Dehydrogenase Catalysed Reductions of 4-Benzoyloxycarbonylamino-2-oxobutanoic Acid, 231
- OXODIIRON**
- Catalysis by μ -Oxo Diiron(III) Complexes of the Methanolysis of Epoxides and the Addition of Alcohols and Thiols to Phenyl Isocyanate, 2265
- OXORUTHENIUM**
- Enantioselective Epoxidation of Unfunctionalized Alkenes by a Chiral Monooxoruthenium(IV) Complex $[\text{RuL}(\text{bpy})\text{O}]^{2+}$ {L = 2,6-bis[(4*S*,7*R*)-7,8,8-trimethyl-4,5,6,7-tetrahydro-4,7-methanoindazol-2-yl]pyridine; bpy = 2,2'-bipyridine}, 2007
- OXYGEN**
- Transition Metal Substituted Keggin Type Polyoxomolybdates as Bifunctional Catalysts for the Epoxidation of Alkenes by Molecular Oxygen, 171
- Corrigendum*: Mechanism of a Novel Spirocyclisation Reaction: Intramolecular Oxygen Transfer to Carbon Radicals by Nitro Groups, 291
- Copper-Dioxygen Reactivity Involved in the Formation of μ -oxo $[(\text{por})\text{Fe}^{\text{III}}\text{-O-Cu}^{\text{II}}\text{L}]^+$ Heterodinuclear Complexes (por = porphyrinate, L = tetradentate ligand), and Novel Synthesis of Square-Planar $\text{Fe}^{\text{II}}(\text{por})$ Species, 499
- Electrochemical-optical and -ESR Investigation of the Reaction between Oxygen and π -Neutral Radicals of Zn^{II} - and Fe^{II} -Protoverdohaem Dimethylester, 601
- Electrochemical Generation of a New Type of Dioxygen Carrier Complex. Reversible Fixation of Dioxygen by the Highly Electron-deficient Two-electron Oxidized Derivative of a Dicobalt Face-to-face Diporphyrin, 1441
- Selective Redistribution Reactions of Tetrakisphosphorus Hexaoxide; Crystal Structure of $\text{P}_4\text{O}_6\text{NC}_6\text{H}_5$, 1509
- Oxygen in an Electron-deficient Borane Skeleton: the Oxa-nido-dodecaborate Anion $[\text{OB}_{11}\text{H}_{12}]^-$, 1663
- Syn* and *Anti* Cycloaddition of Singlet Oxygen to Bisdialine, 1887
- Gas-phase Generation and Spectroscopy of the Unstable NCCNO Molecule, 1901
- Oxidation of Methane to Methanol with Oxygen Catalysed by Europium Trichloride at Room Temperature, 2235
- Ambient Oxygen Activating Water Soluble Cobalt-Salen Complex for DNA Cleavage, 2489
- OXYGEN BINDING**
- Monolayered Octopus-porphyrin Vesicle: Microstructure and Oxygen-binding in Aqueous Medium, 1063
- OXYGEN STORAGE**
- A Novel and Simple Route to Catalysts with a High Oxygen Storage Capacity: the Direct Room-temperature Synthesis of $\text{CeO}_2\text{-ZrO}_2$ Solid Solutions, 2181
- OXYGEN TRANSFER**
- Corrigendum*: Mechanism of a Novel Spirocyclisation Reaction: Intramolecular Oxygen Transfer to Carbon Radicals by Nitro Groups, 291
- OXYNITRIDE**
- Synthesis and Catalytic Bifunctional Properties of Tungsten Oxynitrides, 359
- OXYNITRILASE**
- Optically Active (*S*)-Ketone- and (*R*)-Aldehyde-cyanohydrins via an (*R*)-Oxynitrilase-catalysed Transcyanation. Chemoenzymatic Syntheses of 2-Cyanotetrahydrofuran and 2-Cyanotetrahydropyran, 989

P450 ENZYME

Activation of H₂O₂ by P450: Evidence that the Hydroxylating Intermediate is Iron(III)-coordinated H₂O₂ and not the Ferryl FeO³⁺ Complex, 2297

PALLADIUM

- Palladium-catalysed Synthesis of 6-(2-Acylvinyl)uracils, a group of Novel 6-Substituted Uracils of Biological Significance, 99
- Observations on the Unusual Stereochemistry of the Oxidative Cleavage of Palladium–Carbon Bonds, 271
- Synthesis of Ketones from Iodoalkenes, Carbon Monoxide and 9-Alkyl-9-borabicyclo[3.3.1]nonane Derivatives *via* a Radical Cyclization and Palladium-Catalysed Carbonylative Cross-coupling Sequence, 295
- Stable Palladium(0) and Palladium(II) Complexes Containing a New, Multifunctional and Semi-labile Phosphorus–Bisnitrogen Ligand, 331
- Contrasting Behaviour of Related Palladium Complex-derived Resolving Agents. 8-H Conformational Locking of the 1-Naphthyl Side-Chain, 395
- Palladium-catalysed Tandem Cyclisation–Cross-coupling Reaction with Triethyl-(1-methylindol-2-yl)borate, 409
- The Palladium(II) Coordination Chemistry of Ferrocenylphosphinobipyridines: a Novel *trans*-Chelating Ligand System, 459
- Corrigendum*: Self-assembly of Square Multiporphyrin Arrays by Metal Ion Coordination, 503
- Novel Palladium-catalysed Cyclodimerization of Butadiene in the Presence of Carbon Dioxide and Water, 931
- Stereospecific Synthesis of α - and β -C-Aryl- Δ^2 -Glycopyranosides from *p*-*tert*-Butylphenyl α -O- Δ^2 -Glycopyranoside *via* Grignard Reagents, 1103
- Catalytic Conversions in Water: ¹⁷O, {¹H}³¹P and ³⁵Cl NMR Study of a Novel Stoichiometric Redox Reaction Between PdCl₂, tppts and H₂O [tppts = P(C₆H₄-*m*-SO₃Na)₃], 1105
- Palladium-catalysed Cyclisation–Carboformylation. Molecular Queuing Cascades, 1135
- A Remarkable Synergic Effect of Polymer-anchored Bimetallic Palladium–Ruthenium Catalysts in the Selective Hydrogenation of *p*-Chloronitrobenzene, 1155
- Corrigendum*: Palladium-catalysed Synthesis of 6-(2-Acylvinyl)uracils, a group of Novel 6-Substituted Uracils of Biological Significance, 1195
- Palladium- and Platinum-catalysed Addition of Aldehydes with Allylstannanes, 1273
- Filling Carbon Nanotubes with Small Palladium Metal Crystallites: the Effect of Surface Acid Groups, 1355
- Palladium-catalysed Asymmetric Hydrosilylation of Styrenes with a New Chiral Monodentate Phosphine Ligand, 1533
- Synthesis of 7-, 8- and 9-Membered Rings *via* *Endo* Heck Cyclisations of Amino Acid Derived Substrates, 1743
- Palladium-complex-promoted Asymmetric Diels–Alder Reaction: Stereoselective Synthesis of a New Sulfinyl-substituted Phosphine Ligand containing Three Carbon, One Phosphorus and One Sulfur Stereogenic Centres, 1747
- New Chiral β -Phosphinocarboxylic Acids and their Application in Palladium-catalysed Asymmetric Allylic Alkylations, 1845
- Nickel-catalysed Substitution Reactions of Allylic Compounds with Soft Nucleophiles: an Efficient Alternative to Palladium Catalysis, 1863
- An Unexpected Palladium-catalysed Cyclisation on Carbohydrate Templates, 1893
- Palladium catalysed Cyclisation–Amination of Allenes—Effect of Base on Regioselectivity of Formation of Allylic Amines, 1903
- COS Trapping by Palladium Pyrazolates: Addition *vs.* Clathration, 1955
- Palladium Catalysed Direct Allylation of Pronucleophiles with Allylstannanes, 2013
- Preparation of Cationic (*E*)- σ -Alkenyl Palladium Complexes having a P–O–N or a P–O–P Tridentate Ligand as a Stabilized Intermediate of Palladium-catalysed Stereoselective Addition of Methanol to Acetylenes; Characterisation, X-Ray Analysis and the Reaction Pathway, 2099
- Anomalous Enhancement of the Catalytic Activity of Ferroelectrics-combined Palladium by Resonance Oscillations, 2101
- Di-, Tri- and Tetra-nuclear Palladium(II) Complexes with Ureido Bridging Groups, 2123
- Isocyanide Insertion into the Palladium–Carbon Bond of [PdMe(L–L)Cl] Complexes and the Reactivity of the Products toward Norbornadiene: X-Ray Crystal Structure of [Pd{C(=NC₆H₃Me₂-2,6)Me}(bpy)Cl] [L–L = bpy or phen], 2233
- Platinum- or Palladium-catalysed Ring-opening Homo- and Copolymerization of Silicon- and Germanium-bridged [1]-Ferrocenophanes, 2263
- Regioselective Catalytic Deuteration of Phospholipids—Unusual Mechanistic Aspects of Homogeneous Hydrogenation, 2299
- PAPAIN**
- The Role of Papain in the Association Process of a 1-Pyrenoyl Pendant attached to its Active Site, 1729

PAPULACANDIN D

- Approaches Towards the Synthesis of Papulacandin D: Preparation and Structural Elucidation of the Acyl Side Chain, 1145
- Total Synthesis of the Antifungal Agent Papulacandin D, 1147
- PARAMAGNETISM**
- Synthesis, Structure and Electrochemistry of a Paramagnetic (1,4-Diazabutadiene)Thorium Complex, 579
- The First Solid State Paramagnetic 1,2,3,5-Dithiadiazolyl Radical: X-Ray Crystal Structure of [p-NCC₆F₄CN₂SSN][•], 679
- Synthesis, Spectroscopic Properties and Molecular Structure of the Paramagnetic Complex [(η^5 -3,5-di-*tert*-butyl-1,2,4-triphosphacyclopentadienyl)(η^5 -2,4,5-tri-*tert*-butyl-1,3-diphosphacyclopentadienyl)]vanadium(II), 1659
- Magnetic Exchange Coupling in a Nearly Linear Iron(III)Nickel(II)-Nickel(II)Iron(III) Complex, 1913

PARTIAL OXIDATION

Formation of Methanol by the Gas Phase Partial Oxidation of Methane under Normal Pressures, 93

PAUSON–KHAND

Total Synthesis of (+)-Taylorione utilising Modified Pauson–Khand Reaction Methodology, 457

PECHMANN REACTION

Synthesis of 7-Hydroxycoumarins catalysed by Solid Acid Catalysts, 225

PENTACHLOROPHENOL

A Cyclodextrin–Porphyrin Assembly as Chemosensor for Pentachlorophenol, 663

PENTADIENAL

5-Bromopentadienal: a Versatile Intermediate for the Synthesis of Functionalized Polyenic Compounds, 563

PENTAKISTRIFLUOROMETHYLCYCLOPENTADIENE

Direct Syntheses of Pentakis(trifluoromethyl)cyclopentadienide Salts and Related Dienes, 841

PENTAMETHYLBENZYL

The Radical Cation from Hexamethyl(Dewar Benzene): Derived from a Substitution Product of Hexamethylbenzene?, 219

PENTAMETHYLCYCLOPENTADIENYL

Cleavage of Both Alkyl C–H Bonds and Aryl C–F Bonds and Concomitant C–C Bond Formation in a Pentamethylcyclopentadienylrhodium Phosphine Complex: X-Ray Structure of [(η^5 -C₅Me₃[CH₂C₆F₄P(C₆F₅)CH₂]₂-1,3)RhCl]⁺BF₄[–], 191

PENTAMETHYLDIETHYLENETRIAMINE

Lithium Anilide Complexed by pmdeta: Expectation of a Simple Monomer, but in Reality an Odd Trinuclear Composition Combining Three-, Four- and Five-coordinate Lithium, 891

PENTATETRAENIDE

The Synthesis and Structures of C₅H[–] and C₅[–], 1067

PEPTIDE

- Epimerisation-free Peptide Formation from Carboxylic Acid Anhydrides and Azido Derivatives, 91
- Thermal Control over the Extent of Photoinduced Electron Transfer in Helical Oligopeptides, 313
- Practical Synthesis of Phosphopeptides using Dimethyl-protected Phosphoamino Acid Derivatives, 387
- Facile Synthesis of Protected C-terminal Peptide Segments by Fmoc/Bu^t Solid-phase Procedures on *N*-Fmoc-9-amino-xanthen-3-yloxymethyl Polystyrene Resin, 589
- Peptide Assembly in the Absence of Base *via* Fmoc Amino Acid Fluorides, 669
- On the Use of Hydrophobic Probes in the Chromatographic Purification of Solid-phase-synthesized Peptides, 779
- A Novel Approach for Iodolabelling Synthetic Peptides, 1739
- Monofunctional Electrophilic and Nucleophilic Derivatives of *meso*-Tetraphenylporphyrin for Attachment to Peptides, 1809
- The First Reported Structure of a Platinum(IV) Complex containing Deprotonated Amide Ligands—A Model for Platinum(IV)–Peptide/Protein Interactions, 1939
- Cyclisation of Totally Unprotected Peptides in Aqueous Solution by Oxime Formation, 2021
- Ion-channel-forming and Catecholamine-releasing Activities of Elongated and Truncated Analogues of Trichosporin-B, 2203
- A Novel 4-Aminobenzyl Ester-based Carboxy-protecting Group for Synthesis of Atypical Peptides by Fmoc–Bu^t Solid-phase Chemistry, 2209
- A Facile Access to Peptides Containing D- α -Methyl β -Alkylserines by Coupling of α -Branched Leuchs Anhydrides with α -Amino Esters, 2327
- Behaviour of Stereoisomeric *O*-Methyltyrosyl-*p*-nitrophenylalanines within the β -Cyclodextrin Cavity, 2437
- PEPTIDE LINKER**
- Linkers for Combinatorial Chemistry and Reaction Analysis using Solid Phase *In Situ* Mass Spectrometry, 2163
- PEPTIDE SPACER**
- Relationship Between Electron Transfer and the Structure of a Quinone-linked Zinc Porphyrin with a Flexible Peptide Spacer, 545

PEPTIDOMIMETIC

Synthesis of New Glycopeptidomimetics Based on *N*-Substituted Oligoglycine bearing an *N*-Linked Lactoside Side-chain†, 2571

PEPTIDYL

Reductive Alkylation of 9-Amino-xanthen-3-yloxymethylpoly-(styrene): a Novel Procedure for the Synthesis of Peptidyl *N*-Alkyl Amides by Fmoc/Bu^t Chemistry, 1475

PERCHLORATE

Caged Anions: Perchlorate and Perfluoroanion Cryptates, 1649

PERCHLOROTRIPHENYLMETHYL

Mixed-valence Perchlorotriphenylmethyl Radical Ion Polymers. A Ten Orders of Magnitude Increase in Conductivity, 895

PERFLUORINATED CHAIN

Do Perfluorinated Chains always have to be Twisted?, 1619

PERFLUOROALKYLAMINE

New Fire Suppression Mechanism of Perfluoroalkylamines, 1207

PERFLUOROVINYL

Novel Ligand Transformations in Cluster Complexes. Activation of C-F Bonds in a Perfluorovinyliron(II) Complex by Primary and Secondary Amines, 1431

PERMEATION SELECTIVITY

Zeolite ZSM-5 Membranes Grown on Porous α -Al₂O₃, 227

PEROXIDE

Synthesis of di- μ -oxo Manganese(III/IV) Complexes as Functional Models of *L. Plantarum* Pseudo-catalase: Influence of Electronic and Steric Factors; Catalysis and Kinetics of Hydrogen Peroxide Disproportionation, 949

Optical Absorption and EPR Studies on a Six-coordinate Iron(III)-tetramesitylporphyrin-Hydrogen Peroxide Complex Having a Nitrogenous Axial Ligand, 1507

New TiF₄/SiO₂ Catalysts for Liquid-phase Epoxidations with Aqueous H₂O₂, 1775

Alkene Oxidation in Water using Hydrophobic Silica Particles derivatized with Polyoxometalates as Catalysts, 2277

Real Space Observation of Peroxide-like Dimers on a Sodium Tungsten Bronze Surface by Scanning Tunneling Microscopy, 2419

PEROXO

The First Chelating Phosphorus-Nitrogen Dioxo Ligand: Complexation of an MoO(O₂)₂ Fragment, 1871

PEROXY

A Novel Hexanuclear Heteropolyperoxo Oxidation Catalyst: Preparation, X-Ray Crystal Structure and Reactions of [NMe₄]₃[(MePO₃)₂(MePO₂(OH))₂W₆O₁₃(O₂)₄(OH)₂(OH₂)]·4H₂O, 2183

PERVAPORATION

A Defect-free Mordenite Membrane synthesized by Vapour-phase Transport Method, 1967

PETERSON REACTION

A Novel Synthesis of a Germene and of a 1,2-Digermacyclobutane *via* a Peterson-type Reaction, 1625

PGSE

NMR Diffusion Coefficients of *p*-*tert*-Butylcalix[*n*]arene Systems, 1183

PH

Novel pH-Sensitive Nitroxide Di- and Tri-radical Spin Labels, 723

PHAKELLIA SP

Isolation and Structure of Halistatin 3 from the Western Pacific (Chuuk) Marine Sponge *Phakellia sp*, 383

PHASE TRANSITION

Vesicle Formation from Dimeric Surfactants through Ion-pairing. Adjustment of Polar Headgroup Separation leads to Control over Vesicular Thermotropic Properties, 651

Diode-array UV Spectrometric Evidence for a Concentration Dependent Phase Transition in Dilute Aqueous Solutions of Pluronic F87 (Poloxamer 237), 1843

Correlations between Molecular Motion in the Solid State and Liquid-crystalline Phase Transitions for Two Hydrogen-bonded Carboxylic Acid-Pyridyl Complexes, 1883

PHENANTHRENE

Electronic Communication and Switching between two Iron Atoms across the Phenanthrene-Dihydrophenanthrene Bridging Ligands, 1565

PHENANTHRIDINE

Nuclease Activity of a Hydroxamic Acid Derivative in the Presence of Various Metal Ions, 1413

PHENANTHRIDIUM

Binding of Nucleotides in Water by Phenanthridinium Bis-(intercaland) Receptor Molecules, 1073

PHENANTHROLINE

Synthesis and Spectroscopy of New Iron(II) Complexes of 4,7-Bis(aza-crown ether)-phenanthrolines with Unusual Complexation Properties, 687

Long-lived Photoinduced Proton Transfer Processes, 713

PHENAZINE

Stepwise Syntheses of Mono- and Di-nuclear Ruthenium tpphz Complexes [(bpy)₂Ru(tpphz)]²⁺ and [(bpy)₂Ru(tpphz)Ru-(bpy)₂]⁴⁺ {tpphz = tetrapyrido[3,2-*a*:2',3'-*c*:3'',2''-*h*:2'''+,3'''-*j*]phenazine}, 1799

PHENOL

An Investigation of the Hydrogen Bonding in Liquid-crystal Systems using Variable-temperature Electronic Spectroscopy, 1911

Norrish Type I Photoreaction in the Presence of Phenols; an

Intermolecular Photo-Fries Rearrangement, 2009

First Macrocyclic to Incorporate Phenol and Thiophenol Head Units: the X-Ray Crystal Structure of [Ni₂L(MeCN)₂](ClO₄)₂ reveals

Bridged Square-planar and Octahedral Nickel(II) Ions, 2075

Room-temperature Synthesis of a Highly Active Vanadium-

containing Mesoporous Molecular Sieve, V-HMS, 2231

PHENOXIDE

An Alkali Metal Phenoxide with an Unusual Dimeric Crystal Structure: [Na(OC₆H₃Bu^t-2,6)(μ -Me₂SO)(Me₂SO)]₂, 421

PHENYL

The Sextuple Phenyl Embrace, a Ubiquitous Concerted Supramolecular Motif, 1039

PHENYL ISOCYANATE

Catalysis by μ -Oxo Diiron(III) Complexes of the Methanolysis of Epoxides and the Addition of Alcohols and Thiols to Phenyl Isocyanate, 2265

PHENYLBENZOTHIOPHENIUM

Complete Retention of Configuration in the Nucleophilic Substitution of 1-Phenylbenzo[*b*]thiophenium Salts by Alkoxide Anions, 1375

PHENYLBENZOYLACETONE

Decisive Role of a Phenyl Group at the α -Position of Benzoylacetone in the Solvent Extraction of Al³⁺ and In³⁺, 2271

PHENYLBORONIC ACID

Sugars Intensify the Inhibitory Effect of Phenylboronic Acid on the Hydrolytic Activity of α -Chymotrypsin, 29

PHENYLDIAZOMETHANE

Reactions of Acyl Isothiocyanates with Diphenyldiazomethane: a Route to Oxazole Derivatives and Thietan-3-imines, 67

PHENYLENEDIAMINE

Novel Extended π -Redox Cage-like Systems and their Conformational Versatility, 1229

PHENYLENEDIIMIDO

Functionalisation of [Mo₆O₁₉]²⁻ with Aromatic Amines: Synthesis and Structure of a Hexamolybdate Building Block with Linear Difunctionality, 455

PHENYLETHYLAMINE

High Enantioselectivity in the Reactions of (*R*)- and (*S*)-1-Phenylethylamine with 6^A-Deoxy-6^A-iodo- β -cyclodextrin, 1167

PHENYLETHYNE

Novel Heterogeneous Route for the Coupling of Phenylethyne by a Catalyst derived from Cu-Mg-Al Hydrotaalcite, 2057

PHENYLETHYNYLBENZENE

The Third-order Optical Non-linearity of the Phenylethynyl-substituted Benzene System, 55

PHENYLMALONONITRILE

Unexpected Staudinger Reaction of α -Azidophenylacetonitrile and Triphenylphosphine: Synthesis and Crystal Structure of Aminotriphenylphosphonium Salt of Phenylmalononitrile, 1387

PHENYLOXAZOLE CARBOXYLATE

Reaction of *N*-Benzoyl Amino Acids with Oxalyl Chloride: a Facile Route to 4-Substituted 2-Phenyloxazole-5-Carboxylates, 2335

PHENYLPHENALENONE

A Diarylheptanoid Intermediate in the Biosynthesis of Phenylphenalenones in *Anigozanthos preissii*, 525

PHOSPHAALKYNE

Electron Distribution in *tert*-Butyl Phosphaethyne Bu^tC \equiv P, 505

Synthesis of a Mononuclear $\eta^2(4e)$ -Bonded Phosphaalkyne Complex, Transformation into an $\eta^4-1,3$ -Diphosphacyclobutadiene Complex, 1125

Synthesis, Spectroscopic Properties and Molecular Structure of the Paramagnetic Complex [($\eta^3-3,5$ -di-*tert*-butyl-1,2,4-triphosphacyclopentadienyl)($\eta^5-2,4,5$ -tri-*tert*-butyl-1,3-diphosphacyclopentadienyl)]vanadium(II), 1659

Phosphaalkyne Tetramerisation: First Structural Characterisation of a Tetraphosphabishomoprismane. Synthesis and Molecular Structure of [W₂(CO)₁₀(P₄C₄Bu^t₄)], 2167

Transition-metal mediated Functionalisation of a Phosphaalkyne: Crystal Structure of [Re{=C(Bu^t)P(H)OBF₃}Br(PPh₃)(η -C₅H₅)], 2191

PHOSPHAMIDE

Optically Active Diazacycloposphamides: Novel Efficient Reagents for the Determination of the Absolute Configuration of Amines and Alcohols, 435

PHOSPHANE

Synthesis and Structural Characterization of the First Donor-stabilized Phosphanetriylphosphonium Cation: [Ar*PP(PPh₃)]⁺ (Ar* = 2,4,6-Bu^t₃C₆H₂), 1383

Complexes [(P₂)Rh(hfacac)] (P₂ = Bidentate Chelating Phosphane, hfacac = Hexafluoroacetylacetonate) as Catalysts for CO₂ Hydrogenation: Correlations between Solid State Structures, ¹⁰³Rh NMR Shifts and Catalytic Activities, 1479

Construction of a Phosphane-based Metallo-synthon Suitable for the Selective Formation of a Tetranuclear Ru₂-Cu₂ Macrocyclic, 2033

- Preparation and Ligating Properties of the First Example of a 1,2,4-Triphosphole, $P_3C_2Bu^t_2R$ [$R = CH(SiMe_3)_2$]: Crystal and Molecular Structures of $P_3C_2Bu^t_2CH(SiMe_3)_2$, *trans*-[PtCl₂-(PEt₃)₂] $\{P_3Bu^t_2CH(SiMe_3)_2\}$ and [Fe₂(CO)₆] $\{\mu-P_3C_2Bu^t_2CH(SiMe_3)_2\}$, 1661
- PHOSPHOLIPASE**
Indirect Enzymatic Phosphorylation: Preparation of Dihydroxyacetone Phosphate, 2505
- PHOSPHOLIPID**
Regioselective Catalytic Deuteration of Phospholipids—Unusual Mechanistic Aspects of Homogeneous Hydrogenation, 2299
- PHOSPHONATE**
Molecular Assembly Recognition Process. Carbon Number Selective Intercalation of Amines by a Layered Zirconium Phosphonate, 75
Structure of Aluminium Methylphosphonate, AlMepO-β, with Unidimensional Channels formed from Ladder-like Organic-Inorganic Polymer Chains, 1033
Synthesis and Crystal Structure of Zn(O₃PC₂H₄NH₂), the First Functionalized Zeolite-like Phosphonate, 1051
The First Examples of an Aryl Ring Substituted by Both Phosphine and Phosphonate Moieties: Synthesis and Characterization of the New Highly Water-soluble Phosphine Ligand Na₂[Ph₂P(C₆H₄-p-PO₃)]·1.5H₂O and Platinum(II) Complexes, 1487
- PHOSPHONIUM**
Synthesis and Structural Characterization of the First Donor-stabilized Phosphanetriylphosphonium Cation: [Ar*PP(PPh₃)⁺ (Ar* = 2,4,6-Bu₃C₆H₂)], 1383
- PHOSPHONIUM ARYLOXIDE**
Protonation of an Ylide Leads to a Unique C-H···O Hydrogen-bonded Dimer: The First Synthesis, Isolation and X-Ray Structural Characterisation of a Phosphonium Aryloxy, 919
- PHOSPHONIUM SALT**
Synthesis and X-Ray Crystal Structure of (1*S*,3*R*,4*S*,1'*S*)-4-Methyl-3-triphenylphosphonium-1-[1'-methyl(methylphenyl)]-2-hydrido-2-borazetidinium Bromide—the First Example of a Four-membered C-B-N-C Heterocycle, 287
- PHOSPHOPEPTIDE**
Practical Synthesis of Phosphopeptides using Dimethyl-protected Phosphoamino Acid Derivatives, 387
- PHOSPHORANE**
2,4-Di-*tert*-butyl-6-piperidinophenyl as a Sterically and Electronically Stabilizing Group and X-Ray Analysis of the Corresponding Diselenoxophosphorane, 297
[3 + 2] Annulation of Allylidene(triphenyl)phosphorane with 1,2-Diacylethylenes: Synthesis of Substituted Cyclopentadienes, 449
- PHOSPHOROFLUORIDATE**
Dithymidyl-3',5'-phosphorofluoridates: New Synthesis and Stability under Solvolytic Conditions, 613
Corrigendum: Dithymidyl-3',5'-phosphorofluoridates: New Synthesis and Stability under Solvolytic Conditions, 1195
- PHOSPHOROFLUORIDITE**
Diastereoisomerically Pure Dinucleosidylphosphorofluoridites and their Application in Stereospecific Synthesis of Dinucleosidylphosphorofluoridithionates, 1435
- PHOSPHORUS**
First Structural Characterization of Silicon-Arsenic and Silicon-Phosphorus Multiple Bonds in Silylated Silylidene-arsanes and -phosphanes; X-Ray Structure of a Tellura-arsasilirane Derivative, 253
Stable Palladium(0) and Palladium(II) Complexes Containing a New, Multifunctional and Semi-labile Phosphorus-Bisnitrogen Ligand, 331
An Efficient Synthesis of the First Electroactive Phosphorus-containing Bisferrocene Macrocycles, 585
Synthesis and Structure of a Novel Microporous Gallophosphate, Na₃Ga₅(PO₄)₄O₂(OH)₂·2H₂O, 843
Metathesis of Phosphorus-containing Olefins catalysed by a Cyclometallated Aryloxo(chloro)neopentylidene-Tungsten Complex, 857
Synthesis and Molecular Structure of [K(18-crown-6)]-[(CO)₄FePPh₂CS₂], 1049
Magnetic Properties of Vanadium Phosphorus Oxide Catalysts Studied by Spin Echo Mapping ³¹P NMR, 1323
Selective Redistribution Reactions of Tetraphosphorus Hexaoxide; Crystal Structure of P₄O₆NC₆H₅, 1509
A Novel Coordination Mode for Cationic Phosphorus pπ Systems: μ²-Bridging Coordination of a Bis(phosphonio)isophosphindolium Cation, 1541
Is it possible to Stabilise Complexes with a Tungsten-Phosphorus Triple Bond?, 1671
P₃N₃F₅NPF₂NPF₂NPF₅²⁻: a Cyclophosphazene with a Phosphazene Side-chain Dianion by F⁻-induced Ring-opening of P₃N₃F₆, 1717
The First Chelating Phosphorus-Nitrogen Dioxo Ligand: Complexation of an MoO(O₂)₂ Fragment, 1871
Synthesis and Structure of the first *trans*-1,2-Dihydro-1,2,3-triphosphete-Tungsten Complex, 2113
- Preparation and X-Ray Structure of a New Organo-P-O-S Heterocycle, 2217
[1,3]-Sigmatropic Rearrangement of 1,3,5-Triphosphabicyclo-[2.1.0]pent-2-ene, 2395
Transition-metal Catalysed Metathesis of Phosphorus-Phosphorus Double Bonds, 2429
- PHOSPHORUS NMR**
A Simple *In Situ* ³¹P NMR Method for the Determination of the Enantiomeric Purity of Aromatic Substrates, 689
- PHOSPHORYLATION**
Indirect Enzymatic Phosphorylation: Preparation of Dihydroxyacetone Phosphate, 2505
- PHOSPHOTRIESTER**
Hydrolysis of Phosphotriesters Promoted by a Zinc(II) Complex bearing an Alcohol Pendant, 1137
- PHOTO-FRIES**
Norrish Type I Photoreaction in the Presence of Phenols; an Intermolecular Photo-Fries Rearrangement, 2009
- PHOTOADDITION**
Formation of Novel Photoadducts from Irradiation of 5(*S*)-5-*O-tert*-butyldimethylsilyloxymethylfuran-2(5*H*)-one, 825
- PHOTOCATALYSIS**
Acid Enhancement Effect in the Clean Oxidation of Toluenes Photocatalysed by TiO₂, 1119
- PHOTOCHEMICAL ADDITION**
Highly Selective Formation and Ring Fission of some Cyclobutaquinolizidinones and Cyclobutaindolizidinones, 1783
- PHOTOCHEMISTRY**
Photoinduced SET for the Functionalization of Alkanes, 41
Photochemical [1,3-C] Migration of a Bridgehead Silanorbornene, 133
Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(II) Photoswitchable Materials, 259
Influence of β-Silyl Groups in Cycloalkanones on the Norrish Type I and Type II Cleavages, 299
Photochemical Transformations of 3,3,4,7-Tetramethylpyrazolo[3,4-*d*]pyridazine in Solution and Frozen Gas Matrices, 315
Anion- and Solvent-dependent Photochemical Decomplexation of Sodium Salt Complexes of a Calix[4]arene Tetraester, 363
New Photoisomerization of Provitamin D caused by Hydroxylation at C(1), 423
A Poly(3-methylthiophene) Diode based on a p-n Homojunction prepared by Combination of Electrochemical Cation Doping and Photochemical Anion Doping, 787
New Photolabile Amino Protecting Groups: Photogeneration of Amines from [(3',5'-Dimethoxybenzoinyl)oxy]carbonyl Carbamates, 923
Corrigendum: Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(II) Photoswitchable Materials, 1195
Diepoxyl[15]annulenes undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by ¹³C/¹⁷O NMR Spectroscopy, 1213
Metal-to-ligand Charge Transfer Photochemistry: Potential Energy Curves for the Homolysis of the Model System HMn(CO)₃(α-diimine), 1427
Optical Switching of the Redox Activity of a Hydroxychromene, 1695
The Photosensitized (Electron Transfer) [4e + 2e] Intramolecular Cycloaddition of 1,1,8,8-Tetraphenyl-1,7-octadiene; X-Ray Crystal Structure of 4a,9a-*trans*-4a,10-*trans*-1,2,3,4,4a,9,9a,10-Octahydro-9,9,10-triphenylanthracene, 1963
A Direct Introduction of Perfluorooctyl Group into Cycloalkanes using the Photolysis of Perfluoroazooctane upon 185 nm Irradiation, 2027
Syntheses of New Sensitizer-Donor Dyad Compounds with a Rigid Spacer, 2139
Kinetic and Standard Thermodynamic Parameters of Photoinduced Charge Separation Reactions in a Bichromophoric Anthracene-containing Molecule from Time-resolved Fluorescence Measurements in Different Solvents and Solvent Mixtures and at Different Temperatures, 2171
Photoinduced Electron Transfer from Zinc Porphyrin to a Linked Quinone in Myoglobin, 2503
Novel Group Transfer Cyclization Reactions of Organotellurium Compounds, 2515
- PHOTOCHROMISM**
Optical Resolution of a Thermally Irreversible Photochromic Indolyfulgide, 785
Bivalent Metal Ion-dependent Photochromism and Photofluorochromism from a Spiroquinoxazine, 2091
- PHOTOCLEAVAGE**
2-(3-Methylthiopropyl)-1*H*-benz[*d,e*]isoquinoline-1,3(2*H*)-dione Derivatives as Novel Photo-induced DNA Cleavers, 311
- PHOTOCURRENT**
Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO₂ Films, 65

- Corrigendum*: Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO₂ Films, 1093
- PHOTOCYCLISATION**
Novel Copper(II)-mediated Photocyclization of Methoxynaphthyl Analogues of Chalcone: Unusual Electron Transfer from Excited Vinyl Arenes, 957
- Formation by Mixing of Chiral Host–Achiral Guest Inclusion Complexes in which the Guest Molecules are Arranged in a Chiral Form. Production of Optically Active Photocyclisation Compounds by Irradiation of the Inclusion Complexes, 1719
- PHOTOCYCLOADDITION**
Intramolecular [4 + 4] Photocycloaddition Reactions of the Photochromic Compounds, 3,4-Bis(9-anthrylmethylene)-tetrahydrofuran-2,5-dione and its 5-Dicyanomethylene Derivative, 479
- Enantioselective Intramolecular [2 + 2] Photocycloaddition Reaction of *N*-Allyl-3-oxo-1-cyclohexenecarboxamides in Inclusion Crystals with Chiral Host Compounds, 621
- PHOTODIMER**
Corrigendum: Synthesis and X-Ray Crystal Structure of Novel *trans-syn* Thymine Photodimers: Effect of a Polyoxyethylene Spacer Chain on Photodimer Stereochemistry, 911
- PHOTOINDUCED**
Thermal Control over the Extent of Photoinduced Electron Transfer in Helical Oligopeptides, 313
- PHOTOINDUCED ELECTRON TRANSFER**
The Photosensitized (Electron Transfer) [4e + 2e] Intramolecular Cycloaddition of 1,1,8,8-Tetraphenyl-1,7-octadiene; X-Ray Crystal Structure of 4a,9a-*trans*-4a,10-*trans*-1,2,3,4,4a,9,9a,10-Octahydro-9,9,10-triphenylanthracene, 1963
- PHOTOINDUCTION**
Long-lived Photoinduced Proton Transfer Processes, 713
- PHOTOIRRADIATION**
Alkene Metathesis on Photoirradiated Silica Surface, 761
- PHOTOISOMERISATION**
Triplex Promoted Intersystem Crossing of Ion–Radical pairs in the Photosensitized Valence Isomerization of Quadricyclane: Chemically Induced Dynamic Nuclear Polarization (CIDNP) Evidence, 1055
- PHOTOLITHOGRAPHY**
Photolithographically defined Electropolymerized Films. Fabrication of an Electrochemically Switchable Diffraction Grating comprised of poly-(bpy)₂Ru(vpy)₂²⁺, 1945
- PHOTOLUMINESCENCE**
Interaction of a Luminescent Platinum(II) Complex of Substituted 2,2'-Bipyridine with DNA. Spectroscopic and Photophysical Studies, 509
- Photoluminescence Studies of Chemical Adsorption of GaAs/_xAl_{1-x}As Multiquantum Well Semiconductor, 1439
- PHOTOLYSIS**
Photochemical Formation of 9-Silaanthracenes in Rigid Glass, 215
- Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-*c*]pyrrole-1,4-dione, 303
- Thermal Stability and Chemiluminescence of 3-Alkoxy-3-aryl-4,4-diisopropyl-1,2-dioxetanes, 431
- Migration of Photoinduced Oxidative Damage in Models for DNA, 653
- Competing Pathways in the Photolytic Cycloaddition Reactions of *N*-Ethoxycarbonylazepine to [60]Fullerene: Formation of [2 + 4] and [2 + 6] Photoadducts, 1171
- Charge Polarization in Photoexcited Alkoxy-substituted Biphenyls: Formation of Biphenyl Quinone Methides, 1217
- Abnormal Reaction of an Aryl Azide confined in a Calix[6]arene Skeleton, 1899
- PHOTOLYTIC CLEAVAGE**
Corrigendum: Photolytic Cleavage of DNA by [Au₃(dmmpp)₂]³⁺, 801
- PHOTOPHYSICS**
Photoinduced Intramolecular Charge Transfer in 4-Donor, 4'-Acceptor Substituted Dimethyldiphenylsilanes, 35
- Corrigendum*: Synthesis, Photophysics and Electrochemistry of a Novel Luminescent Organometallic Ruthenium(II)/Platinum(II) Binuclear Complex and its Ruthenium(II)/Dichloro-Platinum(II) and Palladium(II) Counterparts. X-Ray Crystal Structure of [Ru-(bpy)₂(μ-2,3-dpp)PtCl₂]²⁺ [2,3-dpp = 2,3-bis(2-pyridyl)pyrazine], 801
- Synthesis, Photophysical Properties and DNA Binding Studies of Novel Luminescent Rhenium(I) Complexes. X-Ray Crystal Structure of [Re(dppn)(CO)₃(py)](OTf), 1191
- PHOTOPOLYMERISATION**
Enhanced Photopolymerization of Diacetylene in Colloidal Gold Solution, 1525
- PHOTOREDUCTION**
Photosynthesis of CH₄ at a TiO₂ Surface from Gaseous H₂O and CO₂, 533
- Selective Photoreduction of Carbon Dioxide to Methanol on Titanium Dioxide Photocatalysts in Propylene Carbonate Solution, 829
- Photoinduced Inter- and Intra-molecular Electron Transfer Reactions of [60]Fullerene and a Tertiary Amine. Formation of the Cycloadduct *N*-Ethyl-*trans*-2',5'-dimethylpyrrolidino[3',4':1,2]-[60]fullerene, 2225
- PHOTOSPLITTING**
Photo-splitting of Water to Dihydrogen and Hydroxyl Radicals Catalysed by Rhodium-deposited Perfluorinated Poly(*p*-phenylene), 2189
- PHOTOSWITCH**
Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 259
- Dual-mode Photoswitching of Luminescence, 1095
- Corrigendum*: Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 1195
- PHTHALOCYANINE**
A Green Fullerene: Synthesis and Electrochemistry of a Diels–Alder Adduct of [60]Fullerene with a Phthalocyanine, 103
- Liquid Crystalline Polymeric Phthalocyanines, 467
- A Liquid Crystalline Ferrocenyl-phthalocyanine, 1715
- PHYLOSILICATE**
An Organic/Inorganic Hybrid Layered Polymer: Methacrylate–Magnesium(Nickel) Phyllosilicate, 241
- PHYSOPERUVINE**
Catalytic Asymmetric Reduction of *meso*-3,7-Bis-siloxycycloheptene by Chiral Rhodium(I)–binap [2,2'-bis(diphenylphosphino)-1,1'-binaphthyl] Catalyst: the Enantiocontrolled Asymmetric Synthesis of (–)-(S)-Physoperuvine, 2205
- PHYTYL**
Biosynthesis of Chlorophyll *a* from ¹³C-Labelled Mevalonates and Glycine in Liverwort. Nonequivalent Labelling of Phytyl Side Chain, 2529
- PI DONOR**
Ethylenedioxy(ethylenedioxy)diselenadithiafulvalene (TOST) and Ethylenediseleno(ethylenedioxy)tetrathiafulvalene (SO): New Unsymmetrical π-Donors containing Three Elements in Group 16 (O, S, and Se), 2493
- PI INTERACTION**
Cation–π Interaction between the Trimethylammonium Moiety and the Aromatic Ring within Indole-3-acetic Acid Choline Ester, a Model Compound for Molecular Recognition between Acetylcholine and its Esterase: an X-Ray Study, 2221
- PICRATE**
Self-Assembly in Organic Solvents of a Deoxyguanosine Derivative Induced by Alkali Metal Picrates, 2555
- PILLARED MATERIAL**
New Silica-pillared Material prepared from the Layered Silicic Acid of Illerite, 2427
- PILLARING AGENT**
Preparation of Porous Chromia-pillared Titanoniobate, 1865
- PINACOL**
New Strategy for the Synthesis of the Taxane Diterpenes: Formation of the Eight-membered *B*-ring of Taxol by Semi-pinacol Rearrangement, 1935
- PIPERAZINE**
Template Symmetry Effect in Open-framework Synthesis: a New Vanadium(IV) Phosphate, 1337
- Structural and Electrochemical Characterization of the Products of the C₆₀-Piperazine Reaction, 2287
- PIPERIDINE**
Reaction of [60]Fullerene with Morpholine and Piperidine: Preferred 1,4-Additions and Fullerene Dimer Formation, 2023
- PIPERIDINOPHENYL**
2,4-Di-*tert*-butyl-6-piperidinophenyl as a Sterically and Electronically Stabilizing Group and X-Ray Analysis of the Corresponding Diselenoxophosphorane, 297
- PKA**
pK_a of Singly Reduced C₆₀ Encapsulated in γ-Cyclodextrin, 759
- PLANAR COORDINATION**
Towards Planar Tetracoordinate Carbon in the Puckered Ladder Structure of Dilithiated 1-Di-*tert*-butylhydroxymethyl-3,3-dimethylcyclopropene, 2279
- PLASMA**
Interconversion of Chlorofluorocarbons in Plasmas, 347
- The Role of Cations in Low Power Radio Frequency Plasmas of Propenoic Acid, 1053
- PLATINUM**
Unusual Reactivity of a Luminescent Bis-μ-Sulfido Platinum(II) Dimer with Methylene Chloride. X-Ray Structural Characterization of [Pt₂(μ-S)₂(dppy)₄] and [Pt(dppy)₂(S₂CH₂)₂](dppy = 2-diphenylphosphinopyridine), 267
- Corrigendum*: Self-assembly of Square Multiporphyrin Arrays by Metal Ion Coordination, 503
- Interaction of a Luminescent Platinum(II) Complex of Substituted 2,2'-Bipyridine with DNA. Spectroscopic and Photophysical Studies, 509

- Synthesis of a Highly Active Superacid of Platinum-supported Zirconia for Reaction of Butane, 789
- Platinum Catalysed Regioselective *ortho*-Silylation of Benzyldieneamines via Intramolecular C–H Activation, 1129
- [*cis*-Pt(C₆F₅)₂(C≡CPh)₂]²⁻ as a Double Alkynyl Transfer Reagent. Synthesis and Characterization of the Ir(III)–Pt(II) Tweezer Complex {[η⁵-C₅Me₅](PEt₃)Ir(C≡CPh)₂]Pt(C₆F₅)₂}, 1227
- Palladium- and Platinum-catalysed Addition of Aldehydes with Allylstannanes, 1273
- 1-(1-Naphthyl)ethylamine and Derivatives thereof as Chiral Modifiers in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt–Alumina, 1421
- The First Examples of an Aryl Ring Substituted by Both Phosphine and Phosphonate Moieties: Synthesis and Characterization of the New Highly Water-soluble Phosphine Ligand Na₂[Ph₂P(C₆H₄-*p*-PO₃)]·1.5H₂O and Platinum(II) Complexes, 1487
- Preparation and Ligating Properties of the First Example of a 1,2,4-Triphosphole, P₃C₂Bu₂R [R = CH(SiMe₃)₂]: Crystal and Molecular Structures of P₃C₂Bu₂CH(SiMe₃)₂, *trans*-[PtCl₂(PEt₃)₂]{P₃Bu₂CH(SiMe₃)₂} and [Fe₂(CO)₆]{μ-P₃C₂Bu₂CH(SiMe₃)₂}, 1661
- Facile Formation of a *cis*-Platin-Nonapeptide Complex of Human DNA Polymerase-α Origin, 1731
- Dissociation of Platinum(II) Nucleobase Complexes—Evidence for a Three-path Mechanism via a Five-coordinative Intermediate, 1759
- The First Reported Structure of a Platinum(IV) Complex containing Deprotonated Amide Ligands—A Model for Platinum(IV)–Peptide/Protein Interactions, 1939
- Corrigendum*: Platinum catalysed Regioselective *ortho*-Silylation of Benzyldieneamines via Intramolecular C–H Activation, 2045
- Coordination of SnCl₂ and GeCl₂ onto a One-dimensional Platinum Network: Synthesis and Structural Characterization of the [PPh₄]₂[Pt₈(ECl₂)₄(CO)₁₀] (E = Sn, Ge) Complexes, 2055
- Synthesis and Structure of *s-cis*- and *s-trans*-μ-Butadiene-2,3-diylplatinum Complexes by the Reaction of μ-Ethynediylplatinum Complexes with Tetracyanoethylene, 2095
- Energy Profile of a Rapid, Reversible Oxidative Addition Reaction, 2115
- Hydrodechlorination of Tetrachloromethane over Supported Pt Catalysts, 2169
- Platinum- or Palladium-catalysed Ring-opening Homo- and Copolymerization of Silicon- and Germanium-bridged [1]-Ferrocenophanes, 2263
- Structure and Photophysical Properties of [Pt⁰(binap)₂] [binap = 2,2'-bis(diphenylphosphino)-1,1'-binaphthyl], 2273
- MCM-41 as a Support for Small Platinum Particles: A Catalyst for Low temperature Carbon Monoxide Oxidation, 2283
- Tetrahedral Platinum Carbonyl Clusters, 2381
- Mutual Isomerization of η¹-Allenyl and η¹-Propargyl Complexes of Platinum via a Five-coordinate η³-Allenyl/propargyl Intermediate, 2485
- PLUTONIUM**
- Calix[n]arene Phosphine Oxides. A New Series of Cation Receptors for Extraction of Europium, Thorium, Plutonium and Americium in Nuclear Waste Treatment, 2151
- PODAND**
- Crystal Structures of Silver(I) and Thallium(I) Complexes of Tris[3-(2-pyridyl)-pyrazol-1-yl]borate; Encapsulation of Either a Single Thallium(I) Ion or a Trinuclear Silver(I) Cluster by a Hexadentate Podand, 1175
- PODOPHYLLOTOXIN**
- Synthesis of 2,4-Diaza-4-deoxypodophyllotoxin, a New Analogue of Podophyllotoxin possessing Antitumour Activity, 49
- POINT MUTATION**
- A Homogeneous Solution Method for the Detection of Point Mutations in DNA, 1107
- POLONIUM**
- Corrigendum*: Synthesis and Structure of Rb[Cd{Ag(CN₂)₃}] Containing Three Independent, Interpenetrating α-Polonium-related Nets, 605
- POLOXAMER 237**
- Diode-array UV Spectrometric Evidence for a Concentration Dependent Phase Transition in Dilute Aqueous Solutions of Pluronic F87 (Poloxamer 237), 1843
- POLYACRYLATE**
- Polyacrylate Resins bearing the Transition Metal Cluster Unit Co₃(CO)₉C, 2117
- POLYALKYNE**
- Chemistry of μ-η¹:η²_{α,β}-Butadiynyls: Chain Extension on C₄ Polycarbon Ligands, 2165
- POLYAMINE**
- Convenient Syntheses, based on Cyclohexene Oxide, of Ligands that are Highly Preorganised for Metal Ion Size-based Selectivity, 415
- POLYANILINE**
- Poly(*o*-aminobenzylphosphonic acid): a Novel Water Soluble, Self-doped Functionalized Polyaniline, 1327
- POLYAZA**
- Synthesis and X-Ray Crystal Structure of the First Pentanuclear Silver(I) Cluster of the Polyaza Cryptands, 2373
- POLYCARBOSILANE**
- Preparation of a Diethynyl Hypervalent Silicon Monomer by Coordination-selective Cleavage: Structure and Polymerization to give Novel Polycarbosilanes containing Main-chain Hexacoordinate Silicon, 725
- POLYCONDENSATION**
- Formation and Isolation of Huge Cyclic Oligomers: Polycondensation of 1,5-Bis(1-hydroxy-3,6,9-trioxanonyl)naphthalene and Terephthaloyl Chloride, 1621
- POLYENE**
- 5-Bromopentadienal: a Versatile Intermediate for the Synthesis of Functionalized Polyenic Compounds, 563
- The Synthesis and Structures of C₅H⁻ and C₅⁻, 1067
- POLYETHER**
- The First Evidence for Triple Cation Binding by Multi-ring Macroyclic Polyethers: An Electrospray Ionization Mass Spectral Study, 641
- Cyclophanes with Self-recognising Components, 2541
- POLYETHYLENEIMINE**
- Induction of Liquid Crystalline Phases in N-alkylated Poly(ethyleneimine)s by Transition Metal Complexation, 1615
- Layer-by-layer Architectures of Concanavalin A by means of Electrostatic and Biospecific Interactions, 2313
- POLYGERMANE**
- The First Application of Samarium(II) Diiodide for the Formation of Group 14 Element Catenates: Synthesis of Tri- or Poly-germanes and Polystannanes, 2275
- POLYGLYCIDYL METHACRYLATE**
- A Novel, Highly Copper(II)-selective Chelating Hydrophilic Ion Exchanger based on Imidazole modified Poly(glycidyl methacrylate), 147
- POLYHYDRIDO COMPLEX**
- Selective Release of Dihydrogen upon Deuteration of Polyhydrido Complexes: Studies on [WH₃(OCMeO)(Ph₂PCH₂CH₂PPh₂)₂], 1571
- POLYKETIDE**
- Investigation of the Stereochemistry of the Tri- and Tetra-ketide Hydroxyacyl Intermediates in the Biosynthesis of the Polyketide Aspyrone in *Aspergillus melleus* using Deuterium Labelling and Deuterium NMR Spectroscopy, 859
- The Pentaketide Hydroxyacyl Intermediate in Aspyrone Biosynthesis in *Aspergillus melleus* is shown to be the (*S*)-Enantiomer using Deuterium-labelled Precursors and ²H NMR, 861
- Investigation of the Stereochemistry of the Dehydration of the Diketide, (3*R*)-3-Hydroxybutyrate to Crotonate, in the First Chain Extension Cycle on the Aspyrone Polyketide Synthase in Intact Cells of *Aspergillus melleus*, 863
- A Mutant Generated by Expression of an Engineered DEBS1 Protein from the Erythromycin-producing Polyketide Synthase (PKS) in *Streptomyces coelicolor* Produces the Triketide as a Lactone, but the Major Product is the nor-Analogue Derived from Acetate as Starter Acid, 1517
- The Thioesterase of the Erythromycin-producing Polyketide Synthase: Mechanistic Studies *in vitro* to Investigate its Mode of Action and Substrate Specificity, 1519
- POLYMER**
- The Tuning of Conjugation by Recipe: the Synthesis and Properties of Random Head-to-tail Poly(3-alkylthiophene) Copolymers, 135
- Synthesis of Sugar-containing Polymers by Self-condensation with Diboronic Acid, 153
- 1,4,2-Dioxazines or *N*-Acyl Isoxazolidines from Organoselenium-induced Cyclisation of *O*-Allyl Hydroxamic Acids, 237
- An Organic/Inorganic Hybrid Layered Polymer: Methacrylate–Magnesium(Nickel) Phyllosilicate, 241
- Liquid Crystalline Polymeric Phthalocyanines, 467
- Mixed-valence Perchlorotriphenylmethyl Radical Ion Polymers. A Ten Orders of Magnitude Increase in Conductivity, 895
- A Remarkable Synergic Effect of Polymer-anchored Bimetallic Palladium–Ruthenium Catalysts in the Selective Hydrogenation of *p*-Chloronitrobenzene, 1155
- Facile Synthesis of Vinyl Copolymers with Optical Activity Arising from the Configuration of Stereogenic Carbon Atoms in the Main Chain, 1235
- Crystal Structure of Silver(I) Glutarate, a Two-dimensional Polynuclear Coordination Polymer, 1415
- New Rigid Backbone Conjugated Organic Polymers with Large Fluorescence Quantum Yields, 1433
- Construction of a Knitted Crystalline Polymer through the Use of Gold(I)–Gold(I) Interactions, 1773
- Diode-array UV Spectrometric Evidence for a Concentration Dependent Phase Transition in Dilute Aqueous Solutions of Pluronic F87 (Poloxamer 237), 1843
- High Esterolytic Activity of a Novel Water-soluble Polymer Catalyst Imprinted by a Transition-state Analogue, 2143

- Synthesis and Optoelectronic Properties of Aromatic Oxadiazole Polymers, 2211
- Recognition of Barbiturates in Molecularly Imprinted Copolymers using Multiple Hydrogen Bonding, 2303
- Electrogenerated Small Bandgap π -Conjugated Polymers derived from Substituted Dithienylethylenes, 2309
- POLYMER FILM**
- The Role of Cations in Low Power Radio Frequency Plasmas of Propenoic Acid, 1053
- POLYMERISATION**
- Ruthenium Complex-catalysed Selective Redistribution Reaction of Aryltrihydrosilanes and Desilanative Polymerization of Bis-(trihydrosilyl)benzenes, 193
- Tetrabutylammonium Salts of Carbazole and Dibenzazepine: Synthesis, Crystal Structures and Use in Anionic Polymerization, 275
- Polymethylmethacrylate End-group Analysis by Matrix-assisted Laser Desorption Ionisation Time-of-flight Mass Spectrometry (MALDI-TOF-MS), 561
- Structural Order in MCM-41 controlled by Shifting Silicate Polymerization Equilibrium, 711
- Preparation of a Diethynyl Hypervalent Silicon Monomer by Coordination-selective Cleavage: Structure and Polymerization to give Novel Polycarbosilanes containing Main-chain Hexacoordinate Silicon, 725
- The First Example of Polymerization of Isobutylene induced by a Metallocene-like Initiator, $[(\eta^5-C_5Me_5)TiMe_2(\mu-Me)B(C_6F_5)_3]$, 1065
- Ruthenium-based Catalysts for the Ring Opening Metathesis Polymerisation of Low-strain Cyclic Olefins and of Functionalised Derivatives of Norbornene and Cyclooctene, 1127
- Well-defined Ethylene Polymerisation Catalysts derived from Bis-(imido) Chromium(vi) Precursors, 1709
- Preparation of Thin Films with Well-defined Molecular Orientation of Chromophores by Polymerization of Liquid Crystalline Monomers in an Electric Field, 2195
- POLYMERISATION CATALYSIS**
- Anionic and Zwitterionic Metallocene Complexes derived from Novel Boratocyclopentadienyl Ligands, 2081
- POLYMETHYLMETHACRYLATE**
- Polymethylmethacrylate End-group Analysis by Matrix-assisted Laser Desorption Ionisation Time-of-flight Mass Spectrometry (MALDI-TOF-MS), 561
- POLYOL**
- Synthesis and Properties of Some Novel Nonionic Polyol Surfactants, 379
- POLYOXIN J**
- Total Synthesis of (+)-Polyoxin J, 2127
- POLYOXOANION**
- Electrospray Tandem Mass Spectrometry of Polyoxoanions, 877
- POLYOXOMETALATE**
- Polyoxometalate Clusters as Building Blocks: Preparation and Structure of Bis(hexamolybdate) Complexes Covalently Bridged by Organodiimido Ligands, 1165
- Alkene Oxidation in Water using Hydrophobic Silica Particles derivatized with Polyoxometalates as Catalysts, 2277
- POLYOXOMOLYBDATE**
- Transition Metal Substituted Keggin Type Polyoxomolybdates as Bifunctional Catalysts for the Epoxidation of Alkenes by Molecular Oxygen, 171
- POLYPHENYLENE**
- Photo-splitting of Water to Dihydrogen and Hydroxyl Radicals Catalysed by Rhodium-deposited Perfluorinated Poly(*p*-phenylene), 2189
- POLYPHOSPHIDE**
- $PPh_4^+H_2P_7^-$ —the First Stable Hydrogen Polyphosphide Salt, 1713
- POLYPYRIDYL**
- Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO_2 Films, 65
- Corrigendum:* Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO_2 Films, 1093
- POLYPYRONE**
- Efficient Spontaneous 1 : 1 Copolymerization of Bis(ynamine)s with Carbon Dioxide to Poly(4-pyrone)s, 2417
- POLYPYRROLE**
- A Bio-electronic Interface using Functionalised Conducting Poly-(pyrroles), 697
- Functionalisation and Characterisation of Novel Conducting Polymer Interfaces, 1471
- POLYSILANE**
- Graphite-potassium, a New Reagent for the Synthesis of Polysilanes, 769
- Poly(methylphenylsilane) with an Enhanced Isotactic Content prepared using the Graphite Intercalation Compound, C_8K , 1465
- Access to Stabilized Silyl Anions by Electroreduction of Chlorosilanes, 2107
- POLYSTANNANE**
- The First Application of Samarium(II) Diiodide for the Formation of Group 14 Element Catenates: Synthesis of Tri- or Poly-germanes and Polystannanes, 2275
- POLYSTYRENE**
- Reductive Alkylation of 9-Amino-xanthen-3-yloxymethylpoly-(styrene): a Novel Procedure for the Synthesis of Peptidyl *N*-Alkyl Amides by Fmoc/ Bu^t Chemistry, 1475
- POLYTHIENEVINYLENE**
- New Precursors and Polymerization Route for the Preparation of High Molecular Mass Poly(3,4-Dialkoxy-2,5-Thienylenevinylene)s: Low Band Gap Conductive Polymers, 1451
- POLYTHIOPHENE**
- Poly[*trans*-bis(3,4-ethylenedioxythiophene)vinylene]: A Low Band-gap Polymer with Rapid Redox Switching Capabilities between Conducting Transmissive and Insulating Absorptive States, 703
- A Poly(3-methylthiophene) Diode based on a *p*-*n* Homojunction prepared by Combination of Electrochemical Cation Doping and Photochemical Anion Doping, 787
- A New Polythiophene Prepared by the Electropolymerization of a Branched Sexithienyl, 815
- Conformational Effects on Electrical and Spectroscopic Properties of Bi-, Ter-, and Poly-thiophenes, 881
- Ionochromic Effects in Regioregular Ether-substituted Polythiophenes, 2293
- PORPHYCENE**
- Synthesis and Structure of *N,N'*-Bridged Porphycene, 1173
- PORPHYRAZINE**
- Synthesis of Triphenylene-based Porphyrinato Metal(II) Complexes which display Discotic Columnar Mesomorphism, 995
- [60]Fullerene and TCNQ Donor-Acceptor Crystals of Octakis-(dimethylamino)porphyrazine, 1703
- PORPHYRIN**
- Oxidation of Isopropylbenzene by Iron Tetraphenylporphyrin: Evidence for the Interaction of the Cumyl Radical with Oxygen Donors, 429
- Copper-Dioxygen Reactivity Involved in the Formation of μ -oxo [(por)Fe^{III}-O-Cu^{III}]⁺ Heterodinuclear Complexes (por = porphyrinate, L = tetradentate ligand), and Novel Synthesis of Square-Planar Fe^{II}(por) Species, 499
- Corrigendum:* Self-assembly of Square Multiporphyrin Arrays by Metal Ion Coordination, 503
- Iodination and Heck Alkynylation of 5,15-Diphenylporphyrin. A Convenient Entry to Asymmetrically *meso*-Substituted Porphyrins, 527
- Relationship Between Electron Transfer and the Structure of a Quinone-linked Zinc Porphyrin with a Flexible Peptide Spacer, 545
- Synthesis of γ -Hydroperoxy- α,β -unsaturated Carbonyl Compounds from $\alpha,\beta,\gamma,\delta$ -Unsaturated Carbonyl Compounds by Cobalt(II) Porphyrin-catalysed Hydroperoxygenation, 567
- A Cyclodextrin-Porphyrin Assembly as Chemosensor for Pentachlorophenol, 663
- Crystal Structure of a Remarkably Ruffled Nonplanar Porphyrin (Pyridine)[5,10,15,20-Tetra(*tert*-butyl)porphyrinato]zinc(II), 733
- Sugar-controlled Association and Photoinduced Electron Transfer in Boronic-acid-appended Porphyrins, 961
- Monolayered Octopus-porphyrin Vesicle: Microstructure and Oxygen-binding in Aqueous Medium, 1063
- Porphyrin Analogues of Tröger's Base: Large Chiral Cavities with a Bimetallic Binding Site, 1077
- Porphyrin-Quinone Supramolecule with Two Coordination Bonds, 1133
- Spectral and Electrochemical Anion Sensing by a Novel 5,10,15,20-Tetrakis(R-substituted) Porphyrin Receptor [R = $C_6H_4NHC(O)-C_5H_4CoC_5H_5^+PF_6^-$], 1187
- Molecular Recognition of Carbohydrates by Functionalized Zinc Porphyrins, 1257
- A Novel Facile Synthesis of Dihalogenoruthenium(IV) Porphyrins, 1287
- Unusual Conformational Stability of a Sterically Crowded Atropisomer of Methyl[α^4 -5,10,15,20-tetrakis(2'-phenylphenyl)-porphyrinato]aluminium: a Possibility of CH- π Bonding Interactions in Organometallic Porphyrin Systems, 1411
- Electrochemical Generation of a New Type of Dioxygen Carrier Complex. Reversible Fixation of Dioxygen by the Highly Electron-deficient Two-electron Oxidized Derivative of a Dicobalt Face-to-face Diporphyrin, 1441
- Optical Absorption and EPR Studies on a Six-coordinate Iron(III)-tetramesitylporphyrin-Hydrogen Peroxide Complex Having a Nitrogenous Axial Ligand, 1507
- Stereochemical Studies on the Proposed Spiro Intermediate for the Biosynthesis of the Natural Porphyrins: Determination by a Novel X-Ray Method of the Absolute Configuration of the Spirolactam which Inhibits Cosynthetase, 1789
- Monofunctional Electrophilic and Nucleophilic Derivatives of *meso*-Tetraphenylporphyrin for Attachment to Peptides, 1809

- Porphyrins with Appended Phenanthroline Units:** a Means by which Porphyrin π -Systems can be connected to an External Redox Centre, 1921
- Enantioselective Recognition of Histidine and Lysine Esters by Porphyrin Chiral Clefs and Detection of Amino Acid Conformations in the Bound State,** 1925
- NMR Studies of the Electronic Structure of Low-spin Iron(III) Phosphonite Complexes: Unusual (d_{xz}, d_{yz})⁴ (d_{xy})¹ Configuration,** 2093
- Synthesis of Porphyrin-2,3,12,13- and -2,3,7,8-tetraones: Building Blocks for the Synthesis of Extended Porphyrin Arrays,** 2379
- Photoinduced Electron Transfer from Zinc Porphyrin to a Linked Quinone in Myoglobin,** 2503
- PORPHYRIN OLIGOMER**
Self-assembly of Macrocyclic Porphyrin Oligomers, 2567
- PORPHYRIN TRIMER**
'Axial-bonding Type' Hybrid Porphyrin Trimers: Design, Synthesis and Modulation of Redox and Photophysical Properties, 939
- POTASSIUM**
The First Evidence for Triple Cation Binding by Multi-ring Macrocyclic Polyethers: An Electrospray Ionization Mass Spectral Study, 641
- Graphite-potassium, a New Reagent for the Synthesis of Polysilanes,** 769
- Synthesis and Molecular Structure of [K(18-crown-6)]-[(CO)₄FePPh₂CS₂],** 1049
- Poly(methylphenylsilane) with an Enhanced Isotactic Content prepared using the Graphite Intercalation Compound, C₈K,** 1465
- POTASSIUM CARBONATE**
Direct Allylation of Aromatic Compounds with Allylic Chloride using the Supported Reagents System ZnCl₂/SiO₂-K₂CO₃/Al₂O₃, 1895
- POTASSIUM HYDROGEN FLUORIDE**
Hydrofluorination of Unsaturated Compounds with Solid Potassium Hydrogen Fluoride in the Presence of Silicon Tetrafluoride at Room Temperature, 1891
- POWDER**
Amorphous Iron-Boron Powders prepared by Chemical Reduction of Mixed-metal Cation Solutions: Dependence of Composition upon Reaction Temperature, 247
- POWDER DIFFRACTION**
Use of Anomalous X-Ray Diffraction to Determine the Location of Sorbed Krypton in Ferrierite, 783
- Preparation and Characterisation of Mesoporous, High Surface Area Zirconium(IV) Oxides,** 2083
- (NH₃)₆Na₃C₆₀: Room-temperature Synthesis of a Body-centred Cubic C₆₀³⁻ Compound,** 2131
- A Layered Microporous Aluminosilicate Precursor of FER-type Zeolite,** 2187
- Formation of Silica-Surfactant Mesophases studied by Real-time *in-situ* X-Ray Powder Diffraction,** 2423
- POWDER NEUTRON DIFFRACTION**
A Powder Neutron Diffraction Determination of the Structure of Sr₆Co₅O₁₅, Formerly Described as the Low-temperature Hexagonal Form of SrCoO_{3-x}, 1953
- PREDNISOLONE ACETATE**
Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate, 417
- Corrigendum: Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate,** 1309
- PREPHENATE**
Contribution of Transition-state Binding to the Catalytic Activity of *Bacillus subtilis* Chorismate Mutase, 63
- PRONUCLEOPHILE**
Palladium Catalysed Direct Allylation of Pronucleophiles with Allylstannanes, 2013
- PROPANE**
NH₃ Formation during the Reduction of Nitrogen Monoxide by Propane on H-Cu-ZSM-5 in Excess Oxygen, 89
- PROPANOL**
Ruthenium(II) Complexes with New Tridentate Ligands containing P, N, O Donor Atoms: Highly Efficient Catalysts for Transfer Hydrogenation of Ketones by Propan-2-ol, 1721
- PROPARGYL**
Mutual Isomerization of η^1 -Allenyl and η^1 -Propargyl Complexes of Platinum *via* a Five-coordinate η^3 -Allenyl/propargyl Intermediate, 2485
- PROPELLANE**
Synthesis and Structure of 1,3-Bis[tris(trimethylsilyl)methyl]-2,4,5-triseleno-1,3-digermabicyclo[1.1.1]pentane, 1683
- PROPENE**
Molecular Modelling of Supported Metal Catalysts: SiO₂-grafted [(η^3 -C₄H₇)₂Rh]₂V₄O₁₂ and [(Rh(C₂Me₅))₄V₆O₁₉] are Catalytically Active in the Selective Oxidation of Propene to Acetone, 1301
- PROPENE OXIDE**
Direct Synthesis of Propene Oxide by using an EuCl₃ Catalytic System at Room Temperature, 1185
- PROPENOIC ACID**
The Rôle of Cations in Low Power Radio Frequency Plasmas of Propenoic Acid, 1053
- PROPYLENE CARBONATE**
Reversible Electrochemical Insertion of Lithium Ions into Graphite in LiClO₄-Propylene Carbonate Electrolyte, 1867
- PROPYNYL**
A Reaction of γ -Chalcogen-substituted Prop-2-ynyl Cations with Mild Nucleophiles, 149
- PROPYNYL ALCOHOL**
Prop-2-ynyl Alcohol as a Precursor to the η^1 -Ethenyl Ligand, 1209
- PROPYNYL BROMIDE**
Indium-mediated Coupling of Aldehydes with Prop-2-ynyl Bromides in Aqueous Media, 1003
- PROPYNYLGLYCINE**
Cooperative C \equiv C-H...C \equiv C-H Interactions: Crystal Structure of DL-Prop-2-ynylglycine and Database Study of Terminal Alkynes, 95
- PROPYNYLTRIPHENYLPHOSPHONIUM BROMIDE**
Hydroruthenation of Prop-2-ynyltriphenylphosphonium Bromide: Synthesis, Crystal Structure and Reactions of [RuBr-(CH=CHCH₂PPh₃)(CO)(PPh₃)₂]PF₆, 369
- PROROCEN TRIMER**
Biosynthetic Studies of the DSP Toxin DTX-4 and an Okadaic Acid Diol Ester, 1623
- PROSOLANAPYRONE**
Enzymatic Activity Catalysing *Exo*-selective Diels-Alder Reaction in Solanapyrone Biosynthesis, 1321
- PROSTACYCLIN**
An Efficient Approach to Optically Active Benzoprostacyclins by a Two-component Coupling Process, 811
- PROTEASE**
Large Activation of Serine Proteases by Pretreatment with Crown Ethers, 255
- PROTECTING GROUP**
A Novel 4-Aminobenzyl Ester-based Carboxy-protecting Group for Synthesis of Atypical Peptides by Fmoc-Bu^t Solid-phase Chemistry, 2209
- PROTEIN**
Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity, 1803
- The First Reported Structure of a Platinum(IV) Complex containing Deprotonated Amide Ligands—A Model for Platinum(IV)-Peptide/Protein Interactions,** 1939
- Corrigendum: Immobilization of Small Proteins in Carbon Nanotubes: High-resolution Transmission Electron Microscopy Study and Catalytic Activity,** 2579
- PROTON INVENTORY METHOD**
Solvent Isotope Effects on a Hydrolysis Reaction Catalysed by Subtilisin and its N155G Mutant. Failure of the Proton Inventory Method to report Hydrogen-bonding Interactions in the Oxyanion Hole, 1587
- PROTON TRANSFER**
Long-lived Photoinduced Proton Transfer Processes, 713
- PROTONATION**
Is the Most Stable Gas-phase Isomer of the Benzenium Cation a Face-protonated π -Complex?, 2347
- PROTROPIC SHIFT**
Conversion of a Molybdenum Nitride to the Amide and thence to an Oxide and Ammonia, Reactions Involving Formal 1,3-Prototropic Shifts. X-Ray Structures of *trans*-[Mo(NH₂)(OH)(dppe)₂][OTf]₂ and *trans*-[Mo(O)(OMe)(dppe)₂][BPh₄](dppe = Ph₂PCH₂CH₂PPh₂; OTf = CF₃SO₃), 1081
- PROTOVERDOHAEM**
Electrochemical-optical and -ESR Investigation of the Reaction between Oxygen and π -Neutral Radicals of Zn^{II}- and Fe^{II}-Protoverdohaem Dimethylester, 601
- PROVITAMIN D**
New Photoisomerization of Provitamin D caused by Hydroxylation at C(1), 423
- PSEUDOHALIDE**
Hydroperoxides as Pseudohalides: Oxidation, Oxidative Alkylation, Acylation and Arylation of Acrylonitrile, 1399
- PSEUDOMONAS PUTIDA**
Enantioselective Bacterial Biotransformation Routes to *cis*-Diol Metabolites of Monosubstituted Benzenes, Naphthalene and Benzocycloalkenes of Either Absolute Configuration, 117
- Sulfoxides of High Enantiopurity from Bacterial Dioxxygenase-catalysed Oxidation,** 119
- PSUEDOSUGAR**
Synthesis of Pseudo- α -L-fucopyranose from Toluene, 2447
- PUMMERER REARRANGEMENT**
An Efficient Synthesis of *p*-Quinones utilizing a Novel Pummerer-type Rearrangement of *p*-Sulfinylphenols, 1013
- Intramolecular Pummerer Reaction of γ,δ -Unsaturated Sulfinyl Compounds,** 1197

Pummerer-type Rearrangement on Aromatic Rings: an Unprecedented *ipso*-Substitution of the Sulfinyl Group of *p*-Sulfinylphenyl Ethers into Oxygen Functional Groups leading to Protected Dihydroquinone Derivatives, 2319

PUMP-PROBE SPECTROSCOPY

Sub-picosecond Pump-probe Spectroscopy of ESIPT in 3-Hydroxyflavone, 2133

PURINE

Facile, General and Productive Syntheses of the Fluorescent Wye (4,9-Dihydro-4,6-dimethyl-9-oxo-1*H*-imidazo[1,2-*a*]purine) in Phenylalanine tRNA, its 2-Substituted Derivatives and 7-Aza Analogues, 2041

PYRAN

Large Pore Bifunctional Titanium–Aluminosilicates: the Inorganic Non-enzymatic Version of the Epoxidase Conversion of Linalool to Cyclic Ethers, 1635

PYRAZOLATE

COS Trapping by Palladium Pyrazolates: Addition vs. Clathration, 1955

PYRAZOLE

Rationale for Predominance of 1,3-Dipolar Cycloreversion in Thermolysis of 3,4-Dihydropyrazole from Ethano-bridged Diphenyldiazomethane and 2,5-Dimethyl-1,4-benzoquinone. An X-Ray Study, 1937

PYRAZOLINE

Optical Resolution of 1,3-Dimethyl-5-phenyl- Δ^2 -pyrazoline by Diastereoisomeric Complex Formation with an Optically Active Host Compound: X-Ray and Molecular Structure of the Complex, 1453

PYRAZOLOPYRIDAZINE

Photochemical Transformations of 3,3,4,7-Tetramethylpyrazolo[3,4-*d*]pyridazine in Solution and Frozen Gas Matrices, 315

PYRAZOLYL

Synthesis and Crystal Structure of a Dinuclear Copper(II) Complex with a Novel Tetrapyrazolyl Macrocycle, 1365

Novel Insertion of Dimethylsilanone into an Yb–N Bond and Molecular Structure of the Insertion Product [(Yb(η^2 -C₃N₂HMe₂-3,5)(μ - η^1 : η^2 -OSiMe₂C₃N₂HMe₂-3,5)(η -C₅H₄Me))₂], 2483

PYRAZOLYLBORATE

Complexes of the Podand Ligand Tris[3-(2-pyridyl)-pyrazol-1-yl]borate with Lanthanoids and Actinoids: Rare Examples of Icosahedral N₁₂ Coordination, 1881

PYRENE

Cyclopent[*fg*]acepyrylene, Cyclopent[*jk*]acepyrylene and Cyclopent[*lmn*]acepyrylene: Novel C₂₀H₁₀ Cyclopenta-fused Polycyclic Aromatic Hydrocarbons, 2415

PYRENOYL

The Role of Papain in the Association Process of a 1-Pyrenoyl Pendant attached to its Active Site, 1729

PYRIDAZINE

A Regiospecific Reaction of Pyridazines with Vicarious Nucleophilic Substitution *via* Their Dicyanomethylidene Derivatives, 2067
4,5-Dicyanopyridazine: a 1,2-Diazine Superheterodiene for [4 + 2] Cycloaddition Reactions, 2201

PYRIDINE

First Cobalt(I)-catalysed Heterocyclotrimerization of Ethyne with Nitriles to Pyridines in Water under Mild Conditions, 179
Molecular Helicity: a General Approach for Helicity Induction in a Polyheterocyclic Molecular Strand, 765

PYRIDINECARBOXYLATE

Coordination Complexes with Infinite Lattice Structures: Solvothermal Synthesis and X-Ray Crystal Structures of K₂M-[NC₅H₃(CO₂)₂-2,3]₂ (M = Mn, Zn), 2197

PYRIDINIUM IMIDE

N-(3,4-Dihydro-4-oxoquinazolin-3-yl)pyridinium Imides: Aziridinating Agents for Alkenes: Measurement of Rotational Barriers around each N–N Bond in an N–N–N System, 727

PYRIDOIMIDZOPYRAZINE

A Novel Cation 'AND' Anion Recognition Host Having Pyrido-[1',2':1,2]imidazo[4,5-*b*]pyrazine as the Fluorophore, 1491

PYRIDONATE

New Polynuclear Nickel Complexes with a Variety of Pyridonate and Carboxylate Ligands, 1983

PYRIDOPHENAZINE

Stepwise Syntheses of Mono- and Di-nuclear Ruthenium tpphz Complexes [(bpy)₂Ru(tpphz)]²⁻ and [(bpy)₂Ru(tpphz)Ru-(bpy)₂]⁴⁺ {tpphz = tetrapyrrido[3,2-*a*:2',3'-*c*:3'',2''-*h*:2'''-*j*]phenazine}, 1799

PYRIDOXOL

4-Hydroxy-L-threonine, a Committed Precursor of Pyridoxol (Vitamin B₆), 1339

PYRIDYL

Correlations between Molecular Motion in the Solid State and Liquid-crystalline Phase Transitions for Two Hydrogen-bonded Carboxylic Acid–Pyridyl Complexes, 1883
Photolithographically defined Electropolymerized Films. Fabrication of an Electrochemically Switchable Diffraction Grating comprised of *poly*-(bpy)₂Ru(vpy)₂²⁺, 1945

PYRIDYL DISULFIDE

Synthesis of a 'Head-to-tail' Type Cyclodextrin Dimer Linked by a Disulfide Bridge, 581

PYRIDYLIMIDO

Organoimido Ligands with Remote Functionality: A *p*-Pyridylimido Complex of Vanadium(V) and its Use as a Metalloligand, 737

PYRIMIDINE

Synthesis and X-Ray Crystal Structure of a Novel Tetrathiafulvalene Dimethyl[2,4-dioxo(1*H*,3*H*)pyrimido]tetrathiafulvalene, able to form Intermolecular Hydrogen Bonds of Nucleic Acid Base-pair Type, 325

Molecular Helicity: a General Approach for Helicity Induction in a Polyheterocyclic Molecular Strand, 765

The Ion-pair Reinforced, Hydrogen-bonding Molecular Ribbon, 805

PYRIMIDINONE

Synthesis and Acetylcholinesterase Inhibitory Activity of Several Pyrimidone Analogues of Huperzine A, 283

Conformational Flexibility of Dihydropyrimidinone and Tetrahydropyrimidine-2,4-dione Rings in DNA Bases, 1539

PYRROLE

Synthesis of Furan-, Thiophene- and Pyrrole-fused Sultines and their Application in Diels–Alder Reactions, 2537

PYRROLECARBOXYLIC ACID

Fluoro-decarboxylation of Pyrrolecarboxylic Acids by F–TEDA–BF₄– A Convenient General Synthesis of Fluoropyrroles, 2399

PYRROLESULFOLENE

Intramolecular Diels–Alder Reaction of New Building Blocks, *N*-Substituted 3,5-Dihydro-1*H*-thieno[3,4-*c*]pyrrole *S,S*-Dioxides; a General Route to the Tricyclic Azanorbornane Framework, 807

PYRROLIDINE

A New *P*-Chiral Aminophosphine Ligand Containing a 2,2'-Coupled Pyrrolidine–Phospholane Ring System. Synthesis and Coordination Properties with Rhodium(I) and Iridium(I) Fragments, 833

Synthesis of Functionalized Pyrrolidines from *N*-(Benzylidene)- and *N*-(Alkylidene)-homoallylamines, 2029

PYRROLIDINONE

Electronic Influence of Iron Tetracarbonyl Complexation on Unsaturated *N,N*-Diacyliminium Ion Precursors, 619

PYRROLINONE

Chirality Preservation in Pyrrolinone Iron Tetracarbonyl Complexes – a Route to Enantiopure 5-Substituted Pyrrolinones, 617

PYRROLOBOREPIN

5-Methyl-1-phenylpyrrolo[3,4-*d*]borepin: a Polarized Aromatic Molecule, 1249

PYRROLOPYRROLE

Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-*c*]pyrrole-1,4-dione, 303

PYRUVATE

1-(1-Naphthyl)ethylamine and Derivatives thereof as Chiral Modifiers in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt–Alumina, 1421

QUADRICYCLANE

Triplex Promoted Intersystem Crossing of Ion–Radical pairs in the Photosensitized Valence Isomerization of Quadricyclane: Chemically Induced Dynamic Nuclear Polarization (CIDNP) Evidence, 1055

QUANTUM YIELD

New Rigid Backbone Conjugated Organic Polymers with Large Fluorescence Quantum Yields, 1433

QUARTZ CRYSTAL MICROBALANCE

In Situ Monitoring of Specific Adsorption Processes of Poly(ethylene glycol) at Monolayers of Poly(methacrylic acid)-based Amphiphiles deposited on a Quartz Crystal Microbalance, 637

QUARTZ SURFACE

Coordination Chemistry at a Surface: Polymetallic Complexes prepared on Quartz by Alternate Deposition of Iron(II) and Ruthenium(II) Centres, 1007

QUINAZOLINIUM

Vilsmeier Formylation of *para*-Substituted *tert*-Anilines Results in Dibenzo[1,5]diazocines or Quinazolium salts: a Remarkable Example of the '*t*-Amino Effect', 1463

QUINOLINE

Intermolecular Polar [4 π + 2 π] Cycloadditions of Cationic 2-Azabutadienes from Thiomethylamines: A New and Efficient Method for the Regio- and Diastereo-selective Synthesis of 1,2,3,4-Tetrahydroquinolines, 2137

QUINOLIZINE

Stereocontrolled Synthesis of Indolo[2,3-*a*]quinolizines by Intramolecular Double Michael Reaction: Proof for Stepwise Mechanism, 2085

QUINOLONE

A New Short and Efficient Strategy for the Synthesis of Quinolone Antibiotics, 1319

QUINONE

Relationship Between Electron Transfer and the Structure of a Quinone-linked Zinc Porphyrin with a Flexible Peptide Spacer, 545

- An Efficient Synthesis of *p*-Quinones utilizing a Novel Pummerer-type Rearrangement of *p*-Sulfinylphenols, 1013
 Porphyrin–Quinone Supramolecule with Two Coordination Bonds, 1133
 Photoinduced Electron Transfer from Zinc Porphyrin to a Linked Quinone in Myoglobin, 2503
- QUINONE METHIDE**
 Charge Polarization in Photoexcited Alkoxy-substituted Biphenyls: Formation of Biphenyl Quinone Methides, 1217
- QUINONOID**
 Thienoquinonoid-extended Analogues of Bis(alkylenedithio)-tetrathiafulvalenes and their Conductive Complexes, 821
- QUINOPROTEIN**
 An Active Site Model for Calcium(II)-containing Quinoproteins, 2077
- QUINOXAZINE**
 Bivalent Metal Ion-dependent Photochromism and Photofluorochromism from a Spiroquinoxazine, 2091
- RACEMATE**
 Amplified Asymmetric Dihydroxylation of a Racemic Cyclopentene, 1501
- RADICAL**
 New Trialkylsilyl Enol Ether Chemistry: Direct 1,2-Bis-azidonation of Triisopropylsilyl Enol Ethers: an Azido-radical Addition Process Promoted by TEMPO, 263
Corrigendum: Mechanism of a Novel Spirocyclisation Reaction: Intramolecular Oxygen Transfer to Carbon Radicals by Nitro Groups, 291
 5-*endo*-Trigonal Radical Cyclisation—A General Procedure for Making Five-Membered Rings, 319
 Control of the Structural Dimensionality in Hydrogen-bonded Self-assemblies of Open-shell Molecules. Extension of Intermolecular Ferromagnetic Interactions in α -Phenyl Nitronyl Nitroxide Radicals into Three Dimensions, 709
 Novel pH-Sensitive Nitroxide Di- and Tri-radical Spin Labels, 723
 Preparation and Magnetic Properties of Saponite Clays Intercalated with Stable Organic Radicals, 739
 Intramolecular Cyclizations of α -Stannyl Radicals to Acylsilanes: Regiospecific Syntheses of Five-membered Cyclic Silyl Enol Ethers, 981
 1,2-Radical Rearrangements of Aryl, Furanyl and Thiophenyl Groups from Carbon to Nitrogen, 1607
 Fullerene Spin Label. Synthesis and Characterization of the [60]-Fullerene-substituted TEMPO Radical, 1841
 Ferromagnetic Spin Interaction in a Crystalline Molecular Complex Formed by Inter-heteromolecular Hydrogen Bonding: a 1 : 1 Complex of Phenyl Nitronyl Nitroxide Radical and Phenylboronic Acid, 1861
 Metal-induced Conformational Changes in Calix[*n*]arenes can Change the Exchange Interaction between N–O \cdot Radicals, 2121
 Monoalkylstannanes as a New Source of Allyl Radical Transfer, 2387
 Electron Transfer from Tetracarbonylrhodate(1–) to Nitro Aromatics: Novel Interaction of Nitro Radical Anions with a Rhodium(I) Centre, 2441
 Novel Group Transfer Cyclization Reactions of Organotellurium Compounds, 2515
- RADICAL ANION**
 An Electron-transfer Induced Reaction Path Controlled by Ion-pair Formation: an ESR/ENDOR Study of Furan Carbaldehydes and their Reactivity, 803
 The Structures of Solvent-separated Naphthalene and Anthracene Radical Anions, 2393
- RADICAL CATION**
 Photoinduced SET for the Functionalization of Alkanes, 41
 Synthesis and X-Ray Crystal Structure of a Novel Tetrathiafulvalene Dimethyl[2,4-dioxo(1*H*,3*H*)pyrimido]tetrathiafulvalene, able to form Intermolecular Hydrogen Bonds of Nucleic Acid Base-pair Type, 325
 Generation of Solutions of Highly Persistent Radical Cations by 4-Tolylthallium(III) Bis(trifluoroacetate) in 1,1,1,3,3,3-Hexafluoropropan-2-ol, 1131
 Evidence for the Formation of Transient CH₄C₆₀⁺ following High-energy Collisions between C₆₀⁺ Radical Cations and Methane, 1459
- RADICAL CYCLISATION**
 Synthesis of Ketones from Iodoalkenes, Carbon Monoxide and 9-Alkyl-9-borabicyclo[3.3.1]nonane Derivatives *via* a Radical Cyclization and Palladium-Catalysed Carbonylative Cross-coupling Sequence, 295
 A Conjugate Addition—Radical Cyclisation Approach to Sesquiterpene Phenols, 403
 Cyclopentaannulation of Allyl Alcohols *via* a Radical Cyclisation Reaction. Total Synthesis of 4-Epibakkenolide-A, 469
 Tandem Radical Translocation and Homolytic Aromatic Substitution: a Convenient and Efficient Route to Oxindoles, 977
- RADICAL ION POLYMER**
 Mixed-valence Perchlorotriphenylmethyl Radical Ion Polymers. A Ten Orders of Magnitude Increase in Conductivity, 895
- RAMAN**
 Synthesis of Main-group Metal Clusters in Organic Solvents, 59
 The Structure of W(CO)₅L (L = pyridine, piperidine) in the Lowest Ligand Field Excited State determined by Fast Time-resolved IR Spectroscopy; Unexpected C–O Bond Length Changes, 391
 Investigation of the Influence of the Cations to Normal Modes of Y Zeolites: Vibrational Studies and Computer Simulations, 2481
- RAMBERG–BÄCKLUND**
 Stereoselective Synthesis of Substituted 1,3,5-Hexatrienes from Diallylic Sulfones, 1297
- RANEY NICKEL**
 Hydrogenation of Halophenols to Cyclohexanols Using Raney Nickel–Aluminium Alloy in Saturated Ba(OH)₂ Solution under Mild Conditions, 209
- RATE DETERMINING STEP**
 A Reassessment of the Isoinversion Principle, 357
- REARRANGEMENT**
Corrigendum: Intramolecular Generation and Rearrangement of Ammonium Ylides from Copper Carbenoids: a General Method for the Synthesis of Cyclic Amines, 503
 Predominance of Unrearranged Products in the Reactions of the Iodide (Me₃Si)₃CSi(CD₃)₂I with Silver Salts, and its Mechanistic Implications, 705
 Diepoxy[15]annulenes undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by ¹³C/¹⁷O NMR Spectroscopy, 1213
 1,2-Radical Rearrangements of Aryl, Furanyl and Thiophenyl Groups from Carbon to Nitrogen, 1607
 Unusual Reaction of Tricarbonyl(*o*-chinodimethane)iron with *o*-Lithiobenzylidimethylamine: Crystal Structure of [Fe{Me₂NCH₂C₆H₄C(OEt)CH₂C₆H₄CH₂}(CO)₃], 2089
- RECEPTOR**
 A Novel Receptor for Amino Acid Derivatives, 305
 Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate, 417
 Binding of Nucleotides in Water by Phenanthridinium Bis-(intercaland) Receptor Molecules, 1073
 Molecular Recognition of Butylamines by a Binaphthyl-derived Chromogenic Calix[4]crown, 1727
- RECOGNITION**
 Molecular Assembly Recognition Process. Carbon Number Selective Intercalation of Amines by a Layered Zirconium Phosphonate, 75
 A Crystallographic Map of Chiral Recognition in π Complexes of Aromatic Aldehydes and a Chiral Transition Metal Lewis Acid: Enantioface Binding Selectivities in Solution Correlate to Distances between Metal and Carbon Stereocentres in the Solid State, 279
 Selective Fluoride Recognition with Ferroceneboronic Acid, 333
 The Sextuple Phenyl Embrace, a Ubiquitous Concerted Supramolecular Motif, 1039
 Molecular Recognition of Carbohydrates by Functionalized Zinc Porphyrins, 1257
 Molecular Recognition of Butylamines by a Binaphthyl-derived Chromogenic Calix[4]crown, 1727
 Binding Properties and Crystal Structure of a Hemicarcerand Containing Four Diethylene Glycol Units Connecting Two Bowls, 1825
 New Terpenoid Hosts for Chiral Recognition: Crystal Structure and Molecular Modelling Study of an Inclusion Complex with (*S*)-(+)-Phenylloxirane, 2229
 Multifunctional Molecular Recognition of ATP, ADP and AMP Nucleotides by the Novel Receptor 2,6,10,13,17,21-Hexaaza[22]-metacyclophane, 2237
 Recognition of Barbiturates in Molecularly Imprinted Copolymers using Multiple Hydrogen Bonding, 2303
 Oligosaccharins: Receptors for the Recognition and Transport of Nucleotide, Di- and Tri-phosphates, 2349
- REDISTRIBUTION**
 Selective Redistribution Reactions of Tetraphosphorus Hexaoxide; Crystal Structure of P₄O₆NC₆H₅, 1509
- REDOX**
 Spectroscopic and Electrochemical Observation of Both 17- and 19-Electron States of an Inorganometallic Transition Metal Complex: [Fe^{III}(η^5 -C₅Me₅)(S₂CNMe₂)₂], 249
 Catalytic Conversions in Water: ¹⁷O, ¹H/³¹P and ³⁵Cl NMR Study of a Novel Stoichiometric Redox Reaction between PdCl₂, tppts and H₂O [tppts = P(C₆H₄-*m*-SO₃Na)₃], 1105
 Poly(*o*-aminobenzylphosphonic acid): a Novel Water Soluble, Self-doped Functionalized Poly(aniline), 1327
 Optical Switching of the Redox Activity of a Hydroxychromene, 1695
- REDUCTION**
 Amorphous Iron–Boron Powders prepared by Chemical Reduction of Mixed-metal Cation Solutions: Dependence of Composition upon Reaction Temperature, 247
 Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 427

- Reduction of Carboxylates to Alkanols catalysed by *Colletotrichum gloeosporoides*, 439
- Diastereoselective Reductions of β -Substituted- γ -Keto Sulfoximines and a Novel Palladium(0)-catalysed Allylic Sulfoximine to Allylic Sulfinamide Rearrangement, 445
- Enantioselective Radical-mediated Reduction of α -Iodolactone using Tributyltin Hydride in the Presence of a Chiral Amine and a Lewis Acid, 481
- A New Electrosynthesis of 2,2-Dimethylchromenes from 2-(1-Bromo-1-methylethyl)benzofurans, 615
- Synthesis of Allenyl- and Alkynyl-stannanes by Reduction of Allenyl- and Alkynyl-chlorostannanes, 699
- Detection of Surface CN and NCO Species as Possible Reaction Intermediates in Catalytic Lean NO_x Reduction, 813
- Corrigendum*: Formation of HNCO during Catalytic Reduction of NO_x with Olefins over Cu/ZSM-5, 1195
- Ethylene Oxide-mediated Reduction of CO₂ to CO and Ethylene Glycol catalysed by Ruthenium Complexes, 1489
- Stereoselective Reduction of 4-*tert*-Butylcyclohexanone to *cis*-4-*tert*-Butylcyclohexanol catalysed by Zeolite BEA, 1859
- REGIOISOMER**
- Synthesis of All Possible Regioisomers of *myo*-Inositol Tetrakisphosphates, 11
- REGIOSELECTIVE**
- Regioselective *N*-Alkylation of Imidazoles with Alcohols over Zeolites, 9
- REGIOSELECTIVITY**
- Control of Regioselectivity in the Diels-Alder Reactions of Alkyl-substituted 1,4-Benzoquinones by β -Cyclodextrin and its Derivatives, 971
- Control of the Regioselectivity of *N*-Nucleophile Addition to *N*-Carbonyl Protected Dehydroalanines: a Model for the Ammonia-lyase Enzymes, 1061
- Highly Regio- and Stereo-selective Annulation-Elimination Reactions of 1-Cycloalkenyl 3-Hydroxypropyl Ethers, 1117
- Platinum Catalysed Regioselective *ortho*-Silylation of Benzylideneamines *via* Intramolecular C-H Activation, 1129
- α -Regioselective Carbonyl Alkylation by an Allylic Tin Compound Prepared from 1-Bromobut-2-ene and Tin(II) Bromide at a Nonpolar Organic-Aqueous Interface, 1405
- Regioselective Addition of Silylene on to [70]Fullerene, 1529
- The Reaction of Methyl (*E*)-4,5-Epoxy-pent-2-enoate with Arylcopper: the Unique Role of Boron Trifluoride in determining Regioselectivity, 2001
- Corrigendum*: Platinum catalysed Regioselective *ortho*-Silylation of Benzylideneamines *via* Intramolecular C-H Activation, 2045
- REGIOSPECIFIC**
- A Regiospecific Reaction of Pyridazines with Vicarious Nucleophilic Substitution *via* Their Dicyanomethylidene Derivatives, 2067
- RESIN**
- Polyacrylate Resins bearing the Transition Metal Cluster Unit Co₃(CO)₉C, 2117
- RESOLUTION**
- Flash Chiral Chromatography using Carbohydrate Carbamate-coated Silica, 301
- Chiral Discrimination in Capillary Electrophoresis using Novel Anionic Surfactants related to Cysteine, 1575
- RESOLVING AGENT**
- Contrasting Behaviour of Related Palladium Complex-derived Resolving Agents. 8-H Conformational Locking of the 1-Naphthyl Side-Chain, 395
- RESORCINARENE**
- Calix[6]resorcinarenes: The First Examples of [1₆]Metacyclophanes derived from Resorcinols, 309
- RHENIUM**
- Crown Thioether Chemistry: Rhenium(II) Bis(1,4,7-Trithiacyclononane), the First Homoleptic Thioether Complex of Rhenium, 161
- Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 259
- The Formation and Structural Characterisation of the *transoid*- η^4 (5e)-Butadienyl Ligand; Evidence for a 'Bent' Rhenium-Carbon Bond, 593
- Formation of *cisoid*- η^4 (5e)-Butadienylrhenium Complexes by Coupling of Alkene and Alkyne Ligands, 767
- New Homogeneous Rhenium-based Metathesis Catalysts as Models of the Rhenium on Alumina Heterogeneous Catalyst, 791
- Synthesis, Photophysical Properties and DNA Binding Studies of Novel Luminescent Rhenium(I) Complexes. X-Ray Crystal Structure of [Re(dppn)(CO)₃(py)](OTf), 1191
- Corrigendum*: Synthesis, Photophysics and Photochemistry of Novel Luminescent Rhenium(I) Photoswitchable Materials, 1195
- Synthesis, Crystal, Molecular and Electronic Structure of a Novel Heterobinuclear Alkoxide Cluster [(MeO)₂ReO(μ -OMe)₃MoO(OMe)₂], 1779
- [Cl₃Ga-NReCl₂(PMe₂Ph)₃] and [Cl₃Ga-NReCl(PMe₂Ph)₃-(NCMe)][GaCl₄]: the First Complexes with Nitrido Bridges between Main Group and Transition Metals, 2047
- d⁰ and d² Polyhydrides as Unconventional Proton Acceptors in Intermolecular Hydrogen Bonding, 2175
- Transition-metal mediated Functionalisation of a Phosphaalkyne: Crystal Structure of [Re{=C(Bu^t)P(H)OBF₃}Br(PPh₃)(η -C₅H₅)], 2191
- RHODIUM**
- Rh₂(OAc)₄-Catalysed Cycloaddition of Ethyl Diazoacetate to 1,2-Dialkoxybenzenes: a New Type of Stable Norcaradiene, 101
- Cleavage of Both Alkyl C-H Bonds and Aryl C-F Bonds and Concomitant C-C Bond Formation in a Pentamethylcyclopentadienylrhodium Phosphine Complex: X-Ray Structure of [({ η^2 -C₅Me₃[CH₂C₆F₄P(C₆F₅)CH₂]₂-1,3)RhCl]⁺BF₄⁻, 191
- Cis*-[RhI(CO)(Ph₂PCH₂P(S)Ph₂)]: A New Catalyst for Methanol Carbonylation, 197
- Tertiary Alcohol Synthesis from Secondary Alcohols *via* C-H Insertion, 321
- Hydroxy Direction of the Rhodium-mediated Dipolar Cycloaddition of Cyclic Carbenoids with Vinyl Ethers, 673
- A Simple *In Situ* ³¹P NMR Method for the Determination of the Enantiomeric Purity of Aromatic Substrates, 689
- Novel Preparation of Metal-supported Catalysts by Colloidal Microparticles in a Water-in-oil Microemulsion; Catalytic Hydrogenation of Carbon Dioxide, 763
- A New P-Chiral Aminophosphine Ligand Containing a 2,2'-Coupled Pyrrolidine-Phospholane Ring System. Synthesis and Coordination Properties with Rhodium(I) and Iridium(I) Fragments, 833
- Regioselective Carbonyl Insertion Reactions with α -Substituted Heterocycles, 917
- Thiophene C-S Bond Cleavage by Rhodium and Iridium. An Unprecedented Bridging Mode of the Open C₄H₄S Fragment, 921
- The Parallel between Phenyl-initiated C-C Coupling Reactions in Dirhodium Complexes and those Catalysed by Rhodium Particles, 1089
- Rhodium Catalysed Rearrangement of 1,2-Diphenylhydrazine to *o*-Semidine, 1177
- Molecular Modelling of Supported Metal Catalysts: SiO₂-grafted [(η^3 -C₄H₇)₂Rh]₂V₄O₁₂] and [(Rh(C₂Me₅)₄V₆O₁₉)] are Catalytically Active in the Selective Oxidation of Propene to Acetone, 1301
- Novel Rhodium-Antimony Bimetallic Complexes containing an Unusual Distibine *cis*-Eclipsed Conformation, 1325
- Complexes [(P₂)Rh(hfacac)] (P₂ = Bidentate Chelating Phosphane, hfacac = Hexafluoroacetylacetonate) as Catalysts for CO₂ Hydrogenation: Correlations between Solid State Structures, ¹⁰³Rh NMR Shifts and Catalytic Activities, 1479
- Germorylmation of Terminal Alkynes Catalysed by a Zwitterionic Rhodium(I) Complex, 1601
- Novel Intramolecular Michael-type Reactions between Vinylidenephosphine and Pentamethylcyclopentadienyl Coordinated to Rhodium(III): Formation and X-Ray Structures of Heptadentate 10-Electron Donor Ligands, 1629
- Novel Optically Active 7,7'-Bridged-1,1'-biisoquinolines and their Chelation to Rhodium(I) Ion, 1637
- Catalyst-Substrate Complexes of Chiral Seven-membered Ring Chelates of Rhodium(I)-bis(phosphinites), 1745
- Supramolecular Approach to Metal-Support Interactions: Formation and Decarbonylation of Allyl Alcohol by an Oxide-supported (σ -Allyl)rhodium(III) Complex, 1875
- Carbon-Carbon Activation by Rhodium in Solution; sp²-sp³ is Preferred Over sp³-sp³ Bond Cleavage, 1965
- Homogeneous Catalytic Hydroformylation of Vinylarenes: A Selective Rhodium Diphosphine Catalyst System for Higher Branched/Linear Product Ratios, 2031
- Photo-splitting of Water to Dihydrogen and Hydroxyl Radicals Catalysed by Rhodium-deposited Perfluorinated Poly(*p*-phenylene), 2189
- Catalytic Asymmetrization of *meso*-3,7-Bis-siloxycycloheptene by Chiral Rhodium(I)-binap [2,2'-bis(diphenylphosphino)-1,1'-binaphthyl] Catalyst: the Enantiocontrolled Asymmetric Synthesis of (-)-(*S*)-Physoperuvine, 2205
- Unique Intramolecular Exchange between H of SiHPh₂ and SAR in [RhH(SiHPh₂)(SAR)(PMe₃)₃], 2315
- Electron Transfer from Tetracarbonylrhodate(1-) to Nitro Aromatics: Novel Interaction of Nitro Radical Anions with a Rhodium(I) Centre, 2441
- Structure and Dynamics of Intermediates in Asymmetric Hydrogenation by Rhodium Complexes of (2-Methoxyphenyl)-*P*-phenyl-*P*-(2'-diphenylphosphino)ethylphosphine, 2469
- RHOIPTLEANIN**
- Rhoiptleanins A and E, Dimeric Ellagitannins formed by Intermolecular C-C Oxidative Coupling from *Rhoiptlea chiliantha*, 1467
- RIBOSE**
- Chemoenzymatic Synthesis of Analogues of the Second Messenger Candidate Cyclic Adenosine 5'-Diphosphate Ribose, 1359

- Insertion of Vinylsilane into the Ruthenium–Silicon Bond—Direct Evidence for the Non-metallacarbene Mechanism of Silylalkene Disproportionation, 2003
- Unique Intramolecular Exchange between H of SiHPh₂ and SAR in [RhH(SiHPh₂)(SAR)(PMe₃)₃], 2315
- SILICON NMR**
- Structural Order in MCM-41 controlled by Shifting Silicate Polymerization Equilibrium, 711
- SILICON TETRAFLUORIDE**
- Hydrofluorination of Unsaturated Compounds with Solid Potassium Hydrogen Fluoride in the Presence of Silicon Tetrafluoride at Room Temperature, 1891
- SILICONE**
- Novel Insertion of Dimethylsilanone into an Yb–N Bond and Molecular Structure of the Insertion Product [{Yb(η²-C₃N₂HMe₂-3,5)(μ-η¹:η²-OSiMe₂C₃N₂HMe₂-3,5)(η-C₅H₄Me)}₂], 2483
- SILOXANE**
- Synthesis and Characterisation of a Novel Macrocyclic Vinylsiloxane-based Tris(alkene)nickel(0) Complex, 87
- Synthesis and Properties of Calixcrown Telomers, 1737
- SILOXYL**
- Reactivity of Heterobimetallic Alkoxysilyl and Siloxyl Complexes in the Dehydrogenative Coupling of Stannanes, 1455
- SILVER**
- Synthesis and Structure of the Cluster [triangulo-AgHg₂(μ-dppm)₃]³⁺ [dppm = bis(diphenylphosphino)methane], 131
- Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 447
- Corrigendum*: Synthesis and Structure of Rb[Cd{Ag(CN₂)₃}] Containing Three Independent, Interpenetrating α-Polonium-related Nets, 605
- Self-assembly of Homochiral Double Helix and Side-by-side Helix Conformers of a Double-stranded Disilver(I)–Tetra(tertiary phosphine) Complex, 695
- Predominance of Unrearranged Products in the Reactions of the Iodide (Me₃Si)₃CSi(CD₃)₂I with Silver Salts, and its Mechanistic Implications, 705
- Monomeric Bis(η²-alkyne) Complexes of (η¹-Mesityl)copper(I) and (η¹-Mesityl)silver(I) Obtained from a Bis(alkynyl)titanocene; X-Ray Structure of [(η⁵-C₅H₄SiMe₃)₂Ti(C≡CSiMe₃)₂][Cu(η¹-Mes)(Mes = C₆H₂Me₃-2,4,6)], 925
- Crystal Structures of Silver(I) and Thallium(I) Complexes of Tris[3-(2-pyridyl)-pyrazol-1-yl]borate; Encapsulation of Either a Single Thallium(I) Ion or a Trinuclear Silver(I) Cluster by a Hexadentate Podand, 1175
- Corrigendum*: Colloidal Silver as a Quencher for the Fluorescence of 2-Naphthalenesulfonic Acid, 1195
- Unique Structural Features in Silver(I) Dithioether Complexes: the Single-crystal Structures of [Ag_n(PhSCH₂CH₂CH₂SPh)_{2n}](BF₄)_n·0.5nH₂O and [Ag_n(MeSCH₂CH₂CH₂SMe)_n](BF₄)_n, 1277
- Crystal Structure of Silver(I) Glutarate, a Two-dimensional Polynuclear Coordination Polymer, 1415
- Characterization by Electrospray Ionization (ESI) Mass Spectrometry of an Oligomeric, Anionic Thiomalato-silver(I) Complex showing Biological Activity, 1679
- Crystallization of 4,4'-Biphenyldicarbonitrile with Silver(I) Salts: a Change in Topology Concomitant with a Change in Counterion Leading to a Ninefold Diamondoid Network, 2199
- Synthesis and X-Ray Crystal Structure of the First Pentanuclear Silver(I) Cluster of the Polyaza Cryptands, 2373
- Triple Interpenetration in [Ag(4,4'-bipyridine)][NO₃], a Cationic Polymer with a Three-dimensional Motif Generated by Self-assembly of 'T-shaped' Building Blocks, 2413
- SILVER ION**
- Electrospray Mass Spectrometry of Neutral Metal Carbonyl Complexes using Silver(I) Ions for Ionisation, 2531
- SILYL**
- Influence of β-Silyl Groups in Cycloalkanones on the Norrish Type I and Type II Cleavages, 299
- Mono- and N¹,N⁷-Dialkylation of 1,4,7,10-Tetraazacyclododecane via Silicon Protection, 1233
- Reagent Control of Cram-type Selectivity in the Mukaiyama Aldol Catalysed by Supersilylating Agents, 2173
- Ruthenium-catalysed Cyclocarbonylation of 1,1'-Bis(silylethynyl)-ferrocene involving the 1,2-Migration of a Silyl Group, 2267
- SILYL ANION**
- Generation and Trapping of 1,3-Dilithio-1,3-disila-isoindolines, the First Example of Dianions of Functionalized Silanes, 2079
- SILYL ENOL**
- Intramolecular Cyclizations of α-Stannyl Radicals to Acylsilanes: Regiospecific Syntheses of Five-membered Cyclic Silyl Enol Ethers, 981
- SILYL ENOL ETHER**
- New Trialkylsilyl Enol Ether Chemistry: Direct 1,2-Bis-azidonation of Triisopropylsilyl Enol Ethers: an Azido-radical Addition Process Promoted by TEMPO, 263
- Reaction of [60]Fullerene with 1-(4-Methoxyphenyl)-1-(trimethylsilyloxy)ethylene, 367
- SILYL ETHER**
- Ionic 'Diels–Alder' Reactions of Hexa-3,5-dienyl Trimethylsilyl Ether and Enones: X-Ray Structural Determination of Adduct Stereostructure, and a Stereoselective Approach to *Trans*-fused Octalin Systems, 2479
- SILYLATION**
- Platinum Catalysed Regioselective *ortho*-Silylation of Benzylideneamines via Intramolecular C–H Activation, 1129
- Corrigendum*: Platinum catalysed Regioselective *ortho*-Silylation of Benzylideneamines via Intramolecular C–H Activation, 2045
- SILYLENE**
- Regioselective Addition of Silylene on to [70]Fullerene, 1529
- Synthesis, Structures and Reactions of New Thermally Stable Silylenes, 1931
- Platinum- or Palladium-catalysed Ring-opening Homo- and Copolymerization of Silicon- and Germanium-bridged [1]-Ferrocenophanes, 2263
- SIMULATION**
- Simulation Study of Copper(I) and Copper(II) Species in ZSM-5 Zeolite, 945
- SINGLE ELECTRON TRANSFER**
- Photoinduced SET for the Functionalization of Alkanes, 41
- SINGLET**
- Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-c]pyrrole-1,4-dione, 303
- SINGLET OXYGEN**
- Thermal Stability and Chemiluminescence of 3-Alkoxy-3-aryl-4,4-diisopropyl-1,2-dioxetanes, 431
- Singlet Oxygen Additions to Hexacyclo[10.2.1.0^{2,11}.0^{4,9}.0^{4,14}.0^{9,13}]-pentadeca-5,7-dien-3,10-diones. A Remarkable Substituent Effect on π-Face Selectivity Induced by Transition State Geometric Distortions, 677
- Formation of Singlet Oxygen in the Deoxygenation of Heteroarene *N*-Oxides by Dimethyldioxirane, 1831
- SN2 MECHANISM**
- Switching of Two Amine Ligands via an S_N2-type Mechanism in a Coordinated Form of 2,6-Bis(*N,N*-dimethylaminomethyl)-phenylboronates, 2499
- SODIUM**
- Helicity Interchange in Pendant Arm Tetraaza Macrocyclic Sodium(I) Complexes, 97
- An Alkali Metal Phenoxide with an Unusual Dimeric Crystal Structure: [Na(OC₆H₃Bu^t-2,6)(μ-Me₂SO)(Me₂SO)]₂, 421
- The First Evidence for Triple Cation Binding by Multi-ring Macrocyclic Polyethers: An Electrospray Ionization Mass Spectral Study, 641
- Dansyl-modified β-Cyclodextrin with a Monensin Residue as a Hydrophobic, Metal Responsive Cap, 721
- The EPR Spectrum and Structure of the Mixed Alkali Metal Trimer Cluster Na₂Li Prepared using a Rotating Cryostat, 775
- Lithium Anilide Complexed by pmdeta: Expectation of a Simple Monomer, but in Reality an Odd Trinuclear Composition Combining Three-, Four- and Five-coordinate Lithium, 891
- EMT Zeolite Synthesis: Na⁺B vs. OH⁻ Effect, 951
- Base and Acid Catalysis by the Alkali-containing MCM-41 Mesoporous Molecular Sieve, 1005
- A Novel Open-framework Sodium Zincophosphate with Isomorphous Cobalt(II) Substitution, 1681
- Direct Observation of Ion Pair Formation between 2,3-Dichloro-5,6-dicyanobenzoquinone Dianion and Sodium Ion, 1909
- (NH₃)₆Na₃C₆₀: Room-temperature Synthesis of a Body-centred Cubic C₆₀³⁻ Compound, 2131
- SODIUM PHOSPHIDE**
- Authentication of a Sodium Primary Phosphide: Synthesis and Crystal Structure of [Na{PH(C₆H₁₁)}(pmdeta)]₂ (pmdeta = *N,N,N',N'*-pentamethyldiethylenetriamine), 47
- SOLANAPYRONE**
- Enzymatic Activity Catalysing *Exo*-selective Diels–Alder Reaction in Solanapyrone Biosynthesis, 1321
- SOL–GEL**
- Composition-tunable Metal–Alkyl Xerogels as Precursors for Homogeneously Dispersed Metals in Amorphous Silica Matrix, 229
- Sol–Gel Synthesis of Cryptomelane, an Octahedral Molecular Sieve, 1367
- SOLID LUBRICANT**
- Lattice-type Polymers from an Adduct of [60]Fullerene and 2-Methylaziridine, 1547
- SOLID PHASE**
- A Universal Solid-phase Synthesis of Branched Oligoribonucleotides, 495
- A Novel 4-Aminobenzyl Ester-based Carboxy-protecting Group for Synthesis of Atypical Peptides by Fmoc–Bu^t Solid-phase Chemistry, 2209
- Novel Oligosaccharide Mimetics by Solid-phase Synthesis, 2425

- Palladium-complex-promoted Asymmetric Diels–Alder Reaction: Stereoselective Synthesis of a New Sulfinyl-substituted Phosphine Ligand containing Three Carbon, One Phosphorus and One Sulfur Stereogenic Centres, 1747
- Pummerer-type Rearrangement on Aromatic Rings: an Unprecedented *ipso*-Substitution of the Sulfinyl Group of *p*-Sulfinylphenyl Ethers into Oxygen Functional Groups leading to Protected Dihydroquinone Derivatives, 2319
- SULFINYLPHENOL**
An Efficient Synthesis of *p*-Quinones utilizing a Novel Pummerer-type Rearrangement of *p*-Sulfinylphenols, 1013
- SULFOLENE**
A Facile Preparation of 3-Chloro-4-acyl-3-sulfolenes as Common Intermediates for the Synthesis of Thieno-, Pyrazolo- and Isoxazolo-3-sulfolenes, 1349
- SULFOLOBUS SOLFATARICUS**
Detection of Regioisomeric Macrocyclic Tetraethers in the Lipids of *Methanobacterium thermoautotrophicum* and other Archaeal Organisms, 405
- SULFONAMIDE**
N,N-bis(Trimethylsilyl)alkenesulfenamides: Synthesis and Transaminations via *S*-Alkenylthiophthalimides. A General Route to Alkenesulfenamides and Alkenesulfonamides, 1949
- SULFONE**
Dehydrosulfonylation of Conjugated Enyne Sulfones: Convenient Synthesis of Diyne Compounds, 583
Stereoselective Synthesis of Substituted 1,3,5-Hexatrienes from Diallylic Sulfones, 1297
- SULFONIUM ION**
3-Thio-Claisen Rearrangement of the Allyl Vinyl Sulfonium Ion, 2345
- SULFOXIDE**
Sulfoxides of High Enantiopurity from Bacterial Dioxygenase-catalysed Oxidation, 119
Air Oxidation of a Manganese(III) Thioether Chelate affords the First Manganese(III) Dihydroxalen Complex with a Pendant Sulfoxide Ligand, 535
Optical Resolution of Methyl Phenyl and Benzyl Methyl Sulfoxides and Alkyl Phenylsulfonates by Complexation with Chiral Host Compounds Derived from Tartaric Acid, 639
Enantioselective Oxidation of 1,3-Dithioacetals Catalysed by Cyclohexanone Monooxygenase, 1123
Novel Intramolecular Radical Displacement Reactions of 2-Indolyl Aryl Sulfides and Sulfoxides, 1353
- SULFOXIMINE**
Diastereoselective Reductions of β -Substituted- γ -Keto Sulfoximines and a Novel Palladium(0)-catalysed Allylic Sulfoximine to Allylic Sulfonamide Rearrangement, 445
- SULFUR**
Synthesis and Crystal Structure of the First 6a-Thiathiophthen Metal Complex $[\text{Mo}(\text{CO})_5\text{PPh}_2]_2(\mu\text{-C}_3\text{H}_2\text{S}_3)$, 223
The New Synthetic Metals of $\text{M}(\text{dmise})_2$: $[\text{Me}_3\text{HN}][\text{Ni}(\text{dmise})_2]$ and $(\text{EDT-TTF})[\text{Ni}(\text{dmise})_2]$, 351
The First Solid State Paramagnetic 1,2,3,5-Dithiadiazolyl Radical; X-Ray Crystal Structure of $[\text{p-NCC}_6\text{F}_4\text{CNSSN}]^+$, 679
Synthesis of the First Trithiocarbonatogold complex: $[\text{N}(\text{PPh}_3)_2]_2\text{-}[\text{Au}_2(\mu^2\text{-}\eta^2\text{-CS}_3)_2]$. First Crystal Structure of a $\mu^2\text{-}\eta^2$ -Bridging Trithiocarbonato Complex, 745
The Anomalous High Reactivity of Ca^+ with S_8 in the Gas Phase: $[\text{CaS}_3]^+$ and $[\text{CaS}_{11}]^+$, 975
Alkylation of $[\text{WS}_4]^{2-}$: Synthesis and Structural Characterization of the Ethylthiolatotrihiotungstate(VI) Anion, 999
Diaryl(acyloxy)sulfonylamino-spiro- λ^4 -sulfanes. Synthesis, Molecular Structure and Rearrangement, 1069
Tris(dimethylamino)sulfonium, TAS, 1,1,3,5-tetrafluoro-1,3,5-trioxo- $\lambda^6,3\lambda^6,5\lambda^6,2,4,6$ -trithiatriazinane–Synthesis and Crystal Structure, 1113
Novel Sulfurated Five-, Seven- and Nine-membered Heterocycles: Unusual Products derived from Potential Bisthionitroxide Precursors, 1449
Calculated Structures of SAu_3^+ and $\text{S}(\text{AuPH}_3)_3^+$, 1889
Preparation and X-Ray Structure of a New Organo-P–O–S Heterocycle, 2217
Ethylenedithio(ethylenedioxo)diselenadithiafulvalene (TOST) and Ethylenediseleno(ethylenedioxo)tetrathiafulvalene (SO): New Unsymmetrical π -Donors containing Three Elements in Group 16 (O, S, and Se), 2493
- SULFURIC ACID**
Electrophilic Fluorination Using Elemental Fluorine, 17
- SULTINE**
Synthesis of Furan-, Thiophene- and Pyrrole-fused Sultines and their Application in Diels–Alder Reactions, 2537
- SUPER ACID**
Synthesis of a Highly Active Superacid of Platinum-supported Zirconia for Reaction of Butane, 789
- SUPER BASE**
Harnessing Steric Strain to Obtain Superbases, 1543
- SUPERCONDUCTIVITY**
Ethylenedithio(ethylenedioxo)diselenadithiafulvalene (TOST) and Ethylenediseleno(ethylenedioxo)tetrathiafulvalene (SO): New Unsymmetrical π -Donors containing Three Elements in Group 16 (O, S, and Se), 2493
- SUPERCONDUCTOR**
A New Organic Superconductor, λ -BETS₂GaBrCl₃ [BETS = bis-(ethylenedithio)tetraselenafulvalene], 1225
Synthesis and Characterization of Two New Organic Superconductors, κ_1 - and $\kappa_1\text{H}$ -[Bis(ethylenedisulfanyl)-tetrathiafulvalene]₂Au(CF₃)₄(1,1,2-Trichloroethane) *via* Microelectrocrystallization, 1311
Defects and Holes in the Mercury-based Oxide Superconductors: Relevance to High T_c Behaviour, 1595
 β'' -(bedt-ttf)₄[(H₂O)Fe(C₂O₄)₃]·PhCN: The First Molecular Superconductor containing Paramagnetic Metal Ions, 2061
- SUPERCritical CARBON DIOXIDE**
Methyl Formate Synthesis by Hydrogenation of Supercritical Carbon Dioxide in the Presence of Methanol, 707
- SUPEROXIDE**
Free Radical Scavenging Activity of Water-soluble Fullerenols, 1283
- SUPPORTED CATALYST**
Single-pot Synthesis of Methyl *tert*-Butyl Ether from *tert*-Butyl Alcohol and Methanol: Dodecatungstophosphoric Acid supported on Clay as an Efficient Catalyst, 203
A Convenient Molecular Self-assembly Route to Thin Films containing Terminal Donor Ligands and Anchored Organotransition-metal Complexes for Heterogenized Homogeneous Catalysis, 1577
- SUPRAMOLECULAR**
A General Synthetic Strategy for Functionalized Oligo(bipyridines): New Building Blocks for Supramolecular Chemistry and their First Application in Macromolecules, 69
Stacked Supramolecular Structures involving Hydrogen-bonded Networks in Highly Functionalised Tetrathiafulvalene Derivatives, 1201
Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative *via* Complementary Hydrogen Bonds, 2103
- SUPRAMOLECULAR ATTRACTION**
The Sextuple Phenyl Embrace, a Ubiquitous Concerted Supramolecular Motif, 1039
- SURFACE**
Coordination Chemistry at a Surface: Polymetallic Complexes prepared on Quartz by Alternate Deposition of Iron(II) and Ruthenium(II) Centres, 1007
Filling Carbon Nanotubes with Small Palladium Metal Crystallites: the Effect of Surface Acid Groups, 1355
- SURFACTANT**
Synthesis and Properties of Some Novel Nonionic Polyol Surfactants, 379
Vesicle Formation from Dimeric Surfactants through Ion-pairing. Adjustment of Polar Headgroup Separation leads to Control over Vesicular Thermotropic Properties, 651
Rate-enhancing Multi-site Interaction in the Hydrolysis of a Cationic Ester Catalysed by a Cu^{2+} Complex of an Anionic Surfactant Ligand in Anionic Sodium Dodecyl Sulfate Micelles, 691
Bioactive Surfactants containing a β -Lactam Group: Synthesis and Properties, 1279
Chiral Discrimination in Capillary Electrophoresis using Novel Anionic Surfactants related to Cysteine, 1575
Preparation and Characterisation of Mesoporous, High Surface Area Zirconium(IV) Oxides, 2083
Formation of Silica-Surfactant Mesophases studied by Real-time *in-situ* X-Ray Powder Diffraction, 2423
- SUZUKI-MIYAUURA**
A Novel and Efficient Route to (*E*)-Alk-1-enyl Boronic Acid Derivatives from (*E*)-1-(Trimethylsilyl)alk-1-enes and a Formal Suzuki–Miyaura Cross-coupling Reaction starting with Vinylsilanes, 2523
- SYMMETRICAL DIOL**
Highly Selective Monotetrahydropyranlation of Symmetrical Diols Catalysed by a Strongly Acidic Ion-exchange Resin, 2491
- SYMMETRY**
A Topological Rubber Glove obtained from a Synthetic Single-stranded DNA Molecule, 2249
- SYNCHROTRON RADIATION**
Use of Anomalous X-Ray Diffraction to Determine the Location of Sorbed Krypton in Ferrierite, 783
Probing the Onset of Crystallization of a Microporous Catalyst by Combined X-ray Absorption Spectroscopy and X-ray Diffraction, 2549
- SYNGAS**
A Stable and Active Nickel-based Catalyst for Carbon Dioxide Reforming of Methane to Synthesis Gas, 71
Synthesis of 2-Methylpropan-1-ol–Methanol Mixtures from H₂–CO Synthesis Gas over Double-bed Cs/Cu/ZnO/Cr₂O₃ and Cs/ZnO/Cr₂O₃ Catalysts, 2525

- Conformational Effects on Electrical and Spectroscopic Properties of Bi-, Ter-, and Poly-thiophenes, 881
- Thiophene C-S Bond Cleavage by Rhodium and Iridium. An Unprecedented Bridging Mode of the Open C₄H₄S Fragment, 921
- Two Tetrathiafulvalene Salts of a New Thiophene-functionalised Ferracarborane: Electrical Conductivity as a Function of Crystal Composition, 997
- Synthesis of Furan-, Thiophene- and Pyrrole-fused Sultines and their Application in Diels-Alder Reactions, 2537
- THIOPHENE S-OXIDE**
- Thiophene S-Oxides: Convenient Preparation, First Complete Structural Characterization and Unexpected Dimerization of One of Them, 2,5-Diphenylthiophene-1-oxide, 473
- THIOPHENOL**
- First Macrocycle to Incorporate Phenol and Thiophenol Head Units: the X-Ray Crystal Structure of [Ni₂L(MeCN)₂](ClO₄)₂ reveals Bridged Square-planar and Octahedral Nickel(II) Ions, 2075
- THIOPHENOLATE**
- Trinickel(II) Complex of an Acyclic Thiophenolate Ligand: the X-Ray Crystal Structure of [Ni₃L₂Ni](ClO₄)₂(H₂O) Reveals Alternating Square-planar and Octahedral Nickel Ions, 1493
- THIOPHOSPHINATE**
- Intramolecular Nucleophilic Substitution by Phosphinate and Thiophosphinate Anions: Relative Rates of Formation of Five- and Six-membered Rings, 83
- THIOPYRAN**
- Dihydrothiopyran-fused [60]Fullerene from Hetero-Diels-Alder Reaction with Thioacrylamide and Acyl Chloride, 565
- THIOSANGIVAMYCIN**
- Total Synthesis of 2'-Deoxy-2'-arafluorotocamycin and Related Nucleosides, 115
- THIOUREA**
- Synthesis, Conformational Flexibility and Preliminary Complexation Behaviour of α,α'-Trehalose-based Macrocycles Containing Thiourea Spacers, 57
- A Novel Receptor for Amino Acid Derivatives, 305
- Dissociation of Platinum(II) Nucleobase Complexes—Evidence for a Three-path Mechanism *via* a Five-coordinative Intermediate, 1759
- THORIUM**
- Synthesis, Structure and Electrochemistry of a Paramagnetic (1,4-Diazabutadiene)Thorium Complex, 579
- Calix[n]arene Phosphine Oxides. A New Series of Cation Receptors for Extraction of Europium, Thorium, Plutonium and Americium in Nuclear Waste Treatment, 2151
- THTULIUM**
- Synthesis and Structural Characterization of the First Lanthanide Tris(phosphido) Complex: Tm[P(SiMe₃)₃](thf)₂, 577
- THYMIDINE**
- A Simple Approach to 1',1'-a-Methano Carbocyclic Thymidine, 1345
- THYMINE**
- Corrigendum*: Synthesis and X-Ray Crystal Structure of Novel *trans-syn* Thymine Photodimers: Effect of a Polyoxyethylene Spacer Chain on Photodimer Stereochemistry, 911
- TIME-RESOLVED IR**
- The Structure of W(CO)₅L (L = pyridine, piperidine) in the Lowest Ligand Field Excited State determined by Fast Time-resolved IR Spectroscopy; Unexpected C-O Bond Length Changes, 391
- TIN**
- A Li₂Br₂ Ring Trapped by *tert*-Butylaminotin(II)bromide and *tert*-Butylamine as found by X-Ray Crystallography, 213
- Enantioselective Radical-mediated Reduction of α-Iodolactone using Tributyltin Hydride in the Presence of a Chiral Amine and a Lewis Acid, 481
- Remote Asymmetric Induction in Reactions between 4- and 5-Benzyloxy-pent-2-enyl(tributyl)stannanes and Chiral Imines prepared from Butyl Glyoxylate, 657
- Synthesis of Allenyl- and Alkynyl-stannanes by Reduction of Allenyl- and Alkynyl-chlorostannanes, 699
- Solvent Dependent Ester Elimination Reactions in the Preparation of Mixed-metal Oxo Clusters: the Synthesis of PbSn₂(μ₃-O)(OBu^t)₄(OAc)₄, 1041
- Dramatic Acceleration of Migratory Insertion in [MeIr(CO)₂]₃⁻ by Methanol and by Tin(II) Iodide, 1045
- A Carbene-Stannylenes Adduct with a Long Tin-Carbon Double Bond?, 1157
- Palladium- and Platinum-catalysed Addition of Aldehydes with Allylstannanes, 1273
- Reactivity of Heterobimetallic Alkoxy-silyl and Siloxyl Complexes in the Dehydrogenative Coupling of Stannanes, 1455
- Coordination of SnCl₂ and GeCl₂ onto a One-dimensional Platinum Network: Synthesis and Structural Characterization of the [PPh₄]₂[Pt₈(ECl₂)₄(CO)₁₀] (E = Sn, Ge) Complexes, 2055
- Synthesis and Catalytic Properties of Mesoporous Tin Silicate Molecular Sieves, 2495
- TIN OXIDE**
- Molecular Sieving Silica Overlayer on Tin Oxide prepared using an Organic Template, 623
- TIN-OXO**
- Ester Elimination *Versus* Ligand Exchange: the Role of the Solvent in Tin-Oxo Cluster-building Reactions, 157
- TITANIA**
- Novel Mesoporous Titania-Silica Aerogels Highly Active for the Selective Epoxidation of Cyclic Olefins, 163
- The Fabrication of Titania Q-State Particles in Langmuir-Blodgett Films, 1329
- New TiF₄/SiO₂ Catalysts for Liquid-phase Epoxidations with Aqueous H₂O₂, 1775
- TITANIA-SILICA**
- Selective Epoxidation of α-Isophorone with Mesoporous Titania-Silica Aerogels and *tert*-Butyl Hydroperoxide, 2487
- TITANIUM**
- A New and Simple Method for the Preparation of Active Ti-β Zeolite Catalysts, 23
- A New Titanium-Silica Catalyst for the Epoxidation of Non-functionalized Alkenes and Allylic Alcohols, 539
- Organotitanium Oxides as Lewis Acidic Supports of Metal Carbonyl Species: [{Ti₃(η⁵-C₅Me₅)₃(μ-O)₃Me}{(μ-OC)M(CO)₂(η⁵-C₅H₅)₂}]₂ (M = Mo, W), 551
- Ga, Ti Avoidance in the Microporous Titanogallosilicate ETGS-10, 867
- The First Example of Polymerization of Isobutylene induced by a Metallocene-like Initiator, [(η⁵-C₅Me₅)TiMe₂(μ-Me)B(C₆F₅)₃]₂, 1065
- Acid Enhancement Effect in the Clean Oxidation of Toluene Photocatalysed by TiO₂, 1119
- An Octameric Titanium Oxo Metallacycle with Host-Guest Interactions, 1231
- Asymmetric Diels-Alder Reactions of TMHD-acrylate using TiCl₄-(Ar_nHg)_m Complexed Lewis Acids, 1271
- Large Pore Bifunctional Titanium-Aluminosilicates: the Inorganic Non-enzymatic Version of the Epoxidase Conversion of Linalool to Cyclic Ethers, 1635
- Formation of the First Heterobimetallic Phosphido-bridged σ-π-Acetylide Complex [(C₅H₅)₂Ti(μ-σ,η²-C≡CPh)(μ-PPh₂)Ni(PPh₃)] by Cleavage of the Central C-C Single Bond in PhC≡C-C≡CSiMe₃ and of the P-C Bond in Ph₃P, and Coupling of the Fragments to PhC≡CSiMe₃, 1753
- Metal-assisted Activation of the C-O Bond of 2-Hydroxyethylmethacrylate. Synthesis and Molecular Structure of Ti₅(OPrⁱ)₆(μ-OPrⁱ)(μ,η²-OC₂H₄O)(μ₃,η²-OC₂H₄O)₃(μ₄,η²-OC₂H₄O), 1817
- Synthesis and Molecular Structure of the First Organometallic Nitride Cubane: [Ti(η⁵-C₅Me₅)₄(μ₃-N)₄], 2185
- A 'Direct' Relationship between E=Ti-L Bond Angle and Ti=E Bond Length can exist in [Ti(E)L₄] Complexes (E = Organoimido or Oxo), 2357
- Periselective and Enantioselective Carbonyl-Ene Reaction of Isoprene with Fluoroalkyl Glyoxylate Catalysed by Modified Binaphthol-Titanium Complex: Asymmetric Catalytic Synthesis of Enantiomerically Pure Ipsdienol, 2391
- TITANIUM DIOXIDE**
- Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO₂ Films, 65
- Photosynthesis of CH₄ at a TiO₂ Surface from Gaseous H₂O and CO₂, 533
- Selective Photoreduction of Carbon Dioxide to Methanol on Titanium Dioxide Photocatalysts in Propylene Carbonate Solution, 829
- Corrigendum*: Preparation of Phosphonated Polypyridyl Ligands to anchor Transition-metal Complexes on Oxide Surfaces: Application for the Conversion of Light to Electricity with Nanocrystalline TiO₂ Films, 1093
- TITANIUM SILICALITE**
- An Easy Way to Prepare Titanium Silicalite-1 (TS-1), 835
- Discrete Colloidal Crystals of Titanium Silicalite-1, 2259
- TITANIUM SILICATE**
- Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ induced Triphase Catalysis in the Oxidation of Hydrophobic Organic Compounds with Significant Enhancement of Activity and *Para*-Selectivity, 349
- Hydroxy-assisted Chemo- and Stereo-selective Epoxidation Catalysed by a Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ System, 1315
- TITANOCENE**
- Intermolecular C-H Activation by Reactive Titanocene Alkylidene Intermediates, 145
- On the Mechanism of Titanocenedichloride-catalysed Hydromagnesiation of Alkynes with Alkyl Grignard Reagents, 659
- Monomeric Bis(η²-alkyne) Complexes of (η¹-Mesityl)copper(I) and (η¹-Mesityl)silver(I) Obtained from a Bis(alkynyl)titanocene; X-Ray Structure of [(η⁵-C₅H₄SiMe₃)₂Ti(C≡CSiMe₃)₂]Cu(η¹-Mes) (Mes = C₆H₂Me₃-2,4,6), 925
- Homogeneous Catalysis: Use of Chiral Titanocene Complexes for Asymmetric Catalytic Diels-Alder Reactions, 1181

- TITANONIOBATE**
Preparation of Porous Chromia-pillared Titanoniobate, 1865
- TOLUENE**
Acid Enhancement Effect in the Clean Oxidation of Toluenes Photocatalysed by TiO₂, 1119
Synthesis of Pseudo- α -1-fucopyranose from Toluene, 2447
- TOPOLOGY**
Crystallization of 4,4'-Biphenyldicarbonitrile with Silver(I) Salts: a Change in Topology Concomitant with a Change in Counterion Leading to a Ninefold Diamondoid Network, 2199
A Topological Rubber Glove obtained from a Synthetic Single-stranded DNA Molecule, 2249
- TOSYL AZIDE**
Diazo Transfer Reaction of 2-(Trimethylsilyl)-1,3-dithiane with Tosyl Azide. Reactivity of Transient 2-Diazo-1,3-dithiane, 1999
- TOYOCAMYCIN**
Total Synthesis of 2'-Deoxy-2'-*ara*fluorotoyocamycin and Related Nucleosides, 115
- TRANSANNULAR**
A Straightforward Route to Ibophyllidine Alkaloids by a Double Transannular Cyclization, 2317
- TRANSANNULAR BOND**
The Transannular Bond in [5,6]-NCO₂R-bridged Monoadducts of [60]Fullerene is Open, 2289
- TRANSCYANATION**
Optically Active (*S*)-Ketone- and (*R*)-Aldehyde-cyanohydrins via an (*R*)-Oxynitrilase-catalysed Transcyanation. Chemoenzymatic Syntheses of 2-Cyanotetrahydrofuran and 2-Cyanotetrahydropyran, 989
- TRANSESTERIFICATION**
Large Activation of Serine Proteases by Pretreatment with Crown Ethers, 255
- TRANSITION STATE**
Contribution of Transition-state Binding to the Catalytic Activity of *Bacillus subtilis* Chorismate Mutase, 63
- TRANSKETOLASE**
Synthesis of Enantiomerically Pure α -Hydroxyaldehydes from the Corresponding α -Hydroxycarboxylic Acids: Novel Substrates for *Escherichia coli* Transketolase, 2475
- TREHALOSE**
Synthesis, Conformational Flexibility and Preliminary Complexation Behaviour of α,α' -Trehalose-based Macrocycles Containing Thiourea Spacers, 57
- TRIAZACYCLOHEXYL**
Conformationally Biased Tri- and Di-basic 1,3,5-Triazacyclohexyl Ligands, 2361
- TRIAZAHEPTANE**
Convenient Syntheses, based on Cyclohexene Oxide, of Ligands that are Highly Preorganised for Metal Ion Size-based Selectivity, 415
- TRIAZOLEPHthalOCYANINE**
In-plane Orientation in Langmuir-Blodgett Films of Triazolephthalocyanines, 1673
- TRIBACTAM**
Synthesis of a Novel Fluoro-tribactam utilising *N*-Fluorosulfonimide in the Key Step, 661
- TRICARBAHEXABORANE**
Re-identification of the Major Volatile Carbaboranes from the Gas-phase Reactions of Tetraborane(10) and Alkynes at 50 °C, 667
- TRICARBOLLIDE**
Tricarbollides—Compounds of the Eleven-vertex Series of Tricarbaboranes, 795
- TRICARBONYLCHROMIUM**
Cyclopropanation of Tricarbonyl(styrene)chromium(0), 1535
- TRICARBONYLIRON**
Utility of Diene-Tricarbonyliron Complexes as Mobile Chiral Auxiliaries: Highly Diastereoselective 1,5-Nucleophilic Substitution with 1,2-Migration of the Fe(CO)₃ Moiety, 631
- TRICHOSPORIN**
Ion-channel-forming and Catecholamine-releasing Activities of Elongated and Truncated Analogues of Trichosporin-B, 2203
- TRICYCLOHEXYLPHOSPHINE**
Phosphine-mediated [2 + 2] Cycloaddition of Internal Alk-2-ynoate and Alk-2-ynone to [60]Fullerene, 2473
- TRIENE**
Synthesis and Characterisation of a Novel Macrocyclic Vinylsiloxane-based Tris(alkene)nickel(0) Complex, 87
- TRIETHOXSILANE**
The Reaction of [Ni(acac)₂] with Triethoxysilane in the Presence of PPh₃: a New Method for Synthesis of [Ni(acac)Et(PPh₃)], 717
- TRIMETHYLAMINE**
Photoinduced Inter- and Intra-molecular Electron Transfer Reactions of [60]Fullerene and a Tertiary Amine. Formation of the Cycloadduct *N*-Ethyl-*trans*-2',5'-dimethylpyrrolidino[3',4':1,2]-[60]fullerene, 2225
- TRIFLUOROACETATE**
The Radical Cation from Hexamethyl(Dewar Benzene): Derived from a Substitution Product of Hexamethylbenzene?, 219
- TRIFLUOROETHANOL**
¹⁹F to ¹H and ¹H to ¹⁹F Cross Polarization MAS NMR of Trifluoroethanol Chemisorbed on Magnesium Oxide, 1795
- TRIFLUOROSILYLXENON**
The Gaseous Trifluorosilylxenon Cation, F₃SiXe⁺: a Stable Species with a Silicon-Xenon Bond, 773
- TRIMESOGEN**
Laterally Connected 'Trimesogens', 107
- TRIMETHYLAMINE**
Alane Reduction of Selenium and Tellurium: Tertiary Amine Stabilised Dimeric Chalcogenides, *trans*-[Me₃N(H)Al(μ -E)]₂ (E = Se, Te), 2501
- TRIMETHYLAMINE N-OXIDE**
Use of Trimethylamine *N*-Oxide in the Controlled Air-oxidation of Metal Carbonyl Complexes; Synthesis and Crystal Structure of a Novel Organometallic Oxo Complex of Dimolybdenum, 1269
- TRIMETHYLISOCYANURATE**
Hexagonal Supramolecular Networks in the Crystal Structure of the 1 : 1 Molecular Complex Trimethylisocyanurate-1,3,5-Trinitrobenzene, 341
- TRIMETHYL TIN**
Energy Profile of a Rapid, Reversible Oxidative Addition Reaction, 2115
- TRINITROBENZENE**
Hexagonal Supramolecular Networks in the Crystal Structure of the 1 : 1 Molecular Complex Trimethylisocyanurate-1,3,5-Trinitrobenzene, 341
- TRIPHASE SYSTEM**
Titanium Silicate Molecular Sieve (TS-1)/H₂O₂ induced Triphase Catalysis in the Oxidation of Hydrophobic Organic Compounds with Significant Enhancement of Activity and *Para*-Selectivity, 349
- TRIPHENYL PHOSPHITE**
The Synthesis and Single-crystal X-Ray Structure of the First Example of a Tridentate, Di-orthometalated Triphenyl Phosphite Complex, 2049
- TRIPHENYLENE**
The Synthesis of Alkoxybromotriphenylenes: New Discotic Liquid Crystals and Valuable Precursors to 'Mixed Tail' Discotics, 1059
- TRIPHENYLGUANIDINE**
The First Triazatriphenylenemethane Dianion: Crystal Structure of Dilithio-triphenylguanidine Li₂[C(NPh)₃] as its Tetrahydrofuran Solvate, 1647
- TRIPHOSPHABCYCLOPENTENE**
[1,3]-Sigmatropic Rearrangement of 1,3,5-Triphosphabicyclo-[2.1.0]pent-2-ene, 2395
- TRIPHOSPHETE**
Synthesis and Structure of the first *trans*-1,2-Dihydro-1,2,3-triphosphete-Tungsten Complex, 2113
- TRIPHOSPHOLE**
Preparation and Ligating Properties of the First Example of a 1,2,4-Triphosphole, P₃C₂Bu₄R [R = CH(SiMe₃)₂]: Crystal and Molecular Structures of P₃C₂Bu₄CH(SiMe₃)₂, *trans*-[PtCl₂(PEt₃)(P₃Bu₄CH(SiMe₃)₂)] and [Fe₂(CO)₆(μ -P₃C₂Bu₄CH(SiMe₃)₂)], 1661
- TRIPLE HELIX**
Self-assembly of the First Heterodinuclear d-f Triple Helix in Solution, 491
- TRIPLET**
Effect of Excitation on the Host-Guest Equilibrium Constants of Cyclodextrin Complexes, 199
Excited State Electron and Energy Transfer of a Highly Fluorescent Heterocyclic Dye: a Laser Flash Photolysis Study of 2,5-Dimethyl-3,6-diphenylpyrrolo[3,4-c]pyrrole-1,4-dione, 303
Comments on the Interpretation of Triplet Excited-state Decay Data for the Determination of the Equilibrium Constants in Host-Guest Cyclodextrin Complexes, 2435
- TRIPLET STATE**
Boron-centred Diradical Dianion: a New Triplet State Molecule, 1957
- TRIPLEX**
Methylene Blue Intercalates with Triplex Poly(dT)*Poly(dA)*Poly(dT) but not Duplex Poly(dA)*Poly(dT), 53
Triplex Promoted Intersystem Crossing of Ion-Radical pairs in the Photosensitized Valence Isomerization of Quadricyclane: Chemically Induced Dynamic Nuclear Polarization (CIDNP) Evidence, 1055
- TRIPODAL**
Synthesis and Characterization of a Trigonal *Monopyramidal* Nickel(ii) Complex, 1777
- TRISIMIDOMOLYBDENUM**
Tris(2,6-diisopropylphenylimido) Complexes of Molybdenum: Kinetic Accessibility of the d⁰ Mo(=NR)₃ Functional Group, 79
- TRISPHOSPHATE**
Crystal Structure and Modelling Studies of *myo*-Inositol 1,2,3-Trisphosphate, 2219
- TRISPIRANE**
Axial and Helical Chirality of some Spiro-1,3-Dioxanes, 167

