Subject Index

Ab initio calculations

The Adverse Effect of Benzannelation on the Aromaticity of Oxocinyl Anion: A Combined Experimental and Theoretical Study, 1532

Abeomuurolane sesquiterpenes

Two Novel $15(10 \rightarrow 1)$ Abeomuurolane Sesquiterpenes from Cosmos sulphureus, 753

Abietatrienoids

Three New Terpenoids from Pinus yunnanensis, 490

Abscisic acid derivatives

Litseaglutinan A and Lignans from Litsea glutinosa, 951

Abutilon pakistanicum

New Glycosidic Constituents of Abutilon pakistanicum, 2245 Acerifuranoid A

Study on the Constituents of Roots of Aceriphyllum rossii, 1803

Aceriphylic acids J and K

Study on the Constituents of Roots of Aceriphyllum rossii, 1803 Aceriphyllum rossii

Study on the Constituents of Roots of Aceriphyllum rossii, 1803

Acetophenones, 2-amino-

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Acetylenecarboxylates

Three-Component Reaction of an Isocyanide and a Dialkyl Acetylenedicarboxylate with a Phenacyl Halide in the Presence of Water: An Efficient Method for the One-Pot Synthesis of y-Iminolactone Derivatives, 2033 Acetylenedicarboxylates

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Chemoselective and Regiospecific Synthesis of Iminospiro-y-lactones from Maleic Anhydride or Citraconic Anhydride and Alkyl Isocyanides with Dialkyl Acetylenedicarboxylates, 757

A Novel One-Pot Synthesis of Substituted Quinolines, 946

Multicomponent Reactions of Furan-2,3-diones: Synthesis and Characterizations of Furo[3,2-c]pyran-4-ones, 1336

Acetylenes

Synthesis of Functionalized Tetrahydro-4-oxoindeno[1,2-b]pyrroles from Ninhydrin, Acetylenedicarboxylates, and Primary Amines, 1413

Acetylenic esters

One-Pot Synthesis of Functionalized 3-Aryl-1-phenyl-1H-pyrazoles from Hydrazonoyl Chlorides and Acetylenic Esters in the Presence of Ph₃P, 277

A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176

Aconitine derivatives

Four New Nor-Diterpenoid Alkaloids from Aconitum brachypodum, 863

Aconitum brachypodum

Four New Nor-Diterpenoid Alkaloids from Aconitum brachypodum, 863

Aconitum hemsleyanum

Five New C19-Diterpenoid Alkaloids from Aconitum hemsleyanum, 482

Three New C₁₉-Diterpenoid Alkaloids from Aconitum hemsleyanum var. circinatum, 785

Aconitum liangshanicum

New Diterpenoid Alkaloids from Aconitum liangshanicum, 811

Aconitum piepunense

Piepunine, A Novel Bis-diterpenoid Alkaloid from the Roots of Aconitum piepunense, 2251

Aconitum tanguticum var. trichocarpum

Trichocarpinine, a Novel Hetidine–Hetisine Type Bisditerpenoid Alkaloid from Aconitum tanguticum var. trichocarpum, 118

Acrylamides, 3,3-bis(trifluoromethyl)-

Stereoselective Synthesis of [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-D-valine]]- and [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-L-valine]cyclosporin A, 1583

Acrylates, 3-nitro-

Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90

Aculeatins A and B

Total Synthesis of Aculeatins A and B from L-Malic Acid, 2426

Addition reactions

Stereochemical Models for Discussing Additions to $\alpha\beta$ -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives – Is There an '(E)/(Z)-Dilemma'?, 603

Adenosine

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced *syn*-Conformation, 1822

Adenosine derivatives

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

Advanced glycation end products (AGEs)

Study of Lysozyme Glycation Reaction by Mass Spectrometry and NMR Spectroscopy, 991

Aeromonas sp. CB101

Two New Indole Alkaloids from the Marine-Derived Bacterium Aeromonas sp. CB101, 791

β -Agarofurans, dihydro-

New Dihydroagarofuranoid Sesquiterpenes from Celastrus paniculatus, 1716

Two New Sesquiterpene Polyol Esters from Celastrus angulatus, 1844

Albizia julibrissin

Cytotoxic Triterpenoid Saponins Acetylated with Monoterpenoid Acid from *Albizia julibrissin*, 2100 Alchemy

The 550th Anniversary of the Universität Basel, 1460-2010: Paracelsian Beginnings and Chemistry, 1661

Alcohols

Pronounced Catalytic Activity of Manganese(III)-Schiff Base Complexes in the Oxidation of Alcohols by Tetrabutylammonium Peroxomonosulfate, 711

Alcohols, β -amino- α -(trifluoromethyl)

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

Aldehydes

Trimethylsilyl Iodide-Promoted Aza-*Prins* Cyclization for the Synthesis of 4-Iodopiperidines, 2023 Unusual Reactions of (+)-Car-2-ene and (+)-Car-3-ene with Aldehydes on *K10* Clay, 2135

Aldehydes, α , β -unsaturated

Stereochemical Models for Discussing Additions to α,β -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives – Is There an '(E)/(Z)-Dilemma'?, 603

Aldol reaction

Synthesis of Pteroenone and Its Stereoisomers, a Defensive Metabolite of the Abducted Antarctic Pteropod *Clione antarctica*, 1933

Aldol-crotonic condensation reactions

Lewis Acids as Mild and Effective Catalysts for the Synthesis of 3,5-Bis[(hetero)arylidene]piperidin-4-ones, 1990

Algicidal activity

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

Alkaloids

- Conformational Studies of (±)-11,12-Didehydro-11-deoxycorynoline and (+)-11,13-Didehydro-11-deoxychelidonine, Hexahydrobenzo[c]phenanthridine-Type Alkaloid Derivatives, by X-Ray Crystal Structure and NMR Analyses, 25
- New Guaipyridine Sesquiterpene Alkaloids from Artemisia rupestris L., 33
- Trichocarpinine, a Novel Hetidine–Hetisine Type Bisditerpenoid Alkaloid from Aconitum tanguticum var. trichocarpum, 118
- Two New Alkaloids from Stemona tuberosa, 133
- Two New Indole Alkaloids from Tabernaemontana hystrix STEUD. (Apocynaceae), 422
- Five New C₁₉-Diterpenoid Alkaloids from *Aconitum hemsleyanum*, 482
- New Steroids and a New Alkaloid from the Gorgonian Isis minorbrachyblasta: Structures, Cytotoxicity, and Antilarval Activity, 511
- Three New Monoterpene Alkaloids and a New Caffeic Acid Ester from *Incarvillea mairei* var. *multifoliolata*, 718
- Diketopiperazine Alkaloids from Penicillium spp. HS-3, an Endophytic Fungus in Huperzia serrata, 772
- Three New C₁₉-Diterpenoid Alkaloids from Aconitum hemsleyanum var. circinatum, 785
- Two New Indole Alkaloids from the Marine-Derived Bacterium Aeromonas sp. CB101, 791
- New Diterpenoid Alkaloids from Aconitum liangshanicum, 811
- Four New Nor-Diterpenoid Alkaloids from Aconitum brachypodum, 863
- A New Coumarin and Carbazole Alkaloid from Clausena vestita D. D. TAO, 985
- Two New Lycopodine Alkaloids from Huperzia serrata, 1187
- Two New Daphniphyllum Alkaloids from Daphniphyllum calycinum, 1209
- A New Lycopodine Alkaloid from Phlegmariurus yunnanensis CHING, 1381
- New Approaches to 6-Oxoisoaporphine and Tetrahydroisoquinoline Derivatives, 1385
- A New Dimeric Alkaloid from the Leaf of Psychotria calocarpa, 1650
- Cytotoxic Evaluation of Pungencine: A New Tropane Alkaloid from the Roots of *Erythroxylum pungens* O. E. SCHULZ, 1742
- New Chemical Constituents from Borreria verticillata (Rubiaceae), 1751
- Three New Indole-Containing Diketopiperazine Alkaloids from a Deep-Ocean Sediment Derived Fungus Penicillium griseofulvum, 1758
- A Novel Alkaloid from Melodinus henryi, 2030
- Monoterpenoid Indole Alkaloids from Alstonia mairei, 2037
- Four New Alkaloids, Brevianamides O-R, from the Fungus Aspergillus versicolor, 2075
- Piepunine, A Novel Bis-diterpenoid Alkaloid from the Roots of Aconitum piepunense, 2251
- A Unique Indolo-[1,7]naphthyridine Alkaloid from *Incarvillea mairei* var. grandiflora (WEHRH.) GRIERSON, 2393

Alkenes

Copper-Catalyzed Ritter-Type Reaction of Unactivated Alkenes with Dichloramine-T, 233

Alkyl isocyanides

Chemoselective and Regiospecific Synthesis of Iminospiro- γ -lactones from Maleic Anhydride or Citraconic Anhydride and Alkyl Isocyanides with Dialkyl Acetylenedicarboxylates, 757

Alkylation

- Total Synthesis of the Biologically Active, Naturally Occurring 3,4-Dibromo-5-[2-bromo-3,4-dihydroxy-6-(methoxymethyl)benzyl]benzene-1,2-diol and Regioselective O-Demethylation of Aryl Methyl Ethers, 1127
- Alkylation Reactions at the Benzo Moiety of 2,4-Dimethoxy-3-(phenylsulfonyl)benzo[a]heptalenes Model Compounds of Colchicinoids, 1894

Alkynes

One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1H-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435

Photocycloaddition of Conjugated Cyclohex-2-enones to 2,3-Dimethylbuta-1,3-diene, 1052 Alkynide addition

Aikymue auumon

Enantioselective Synthesis of Herbarumin III by Using a Chelation-Controlled Reduction, 1634 Allenes

Anenes

Regioselective Synthesis of 4-(Arylsulfanyl)-2-hydroxyhomophthalates by [4+2] Cycloaddition of 3-(Arylsulfanyl)-1-(trimethylsilyloxy)buta-1,3-dienes with Dimethyl Penta-2,3-dienedioate, 704

Allvlation

Stereoselective Total Synthesis of Dodoneine, 1960

Alpinia katsumadai

New Diarylheptanoids and Kavalactone from Alpinia katsumadai HAYATA, 382

Alstonia mairei

Monoterpenoid Indole Alkaloids from Alstonia mairei, 2037

Alzheimer's disease

Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242

Amidinothiourea

One-Step Synthesis of 1-(4,5-Diphenylpyrimidin-2-yl)thiourea, 1641

Amines

H₅IO₆/KI: A New Combination Reagent for Iodination of Aromatic Amines, and Trimethylsilylation of Alcohols and Phenols through *in situ* Generation of Iodine under Mild Conditions, 587

One-Pot, Pseudo-Five-Component Synthesis of Bis[2-(arylimino)-1,3-thiazolidin-4-ones], 1401

Amino acids

Benzyl N-[(Benzyloxy)methyl]carbamate: An Improved Aminomethylation Electrophile for the Synthesis of (Benzyloxy)carbonyl (Cbz)-Protected Chiral β²-Amino Acids, 314

Amino ketones, polyunsaturated

New Polyunsaturated Amino Ketones from a Guangxi Sponge Haliclona sp., 1199

α-Aminoisobutyric acid (Aib)

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded α-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an α -Heptapeptide: A Computational Study, 1513

α-Aminomethylation

Benzyl N-[(Benzyloxy)methyl]carbamate: An Improved Aminomethylation Electrophile for the Synthesis of (Benzyloxy)carbonyl (Cbz)-Protected Chiral β²-Amino Acids, 314

α-Aminophosphonate

Solvent-Free Synthesis of Diphenyl [2-(Aminocarbonyl)-1,2-dihydroisoquinolin-1-yl]phosphonates from Isoquinoline, Isocyanates, and Diphenyl Phosphonate, 654

Amyloid-like fibrils

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded α-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

Anchusa azurea var. azurea

Four New Triterpenes from Anchusa azurea var. azurea, 457

Anemone raddeana

Oleanane Saponins from Rhizome of Anemone raddeana, 58

Anion-exchange reactions

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 Anomalactones A – C

New Sesquiterpenoids from Artemisia anomala, 2000

Anomallenodiol

New Sesquiterpenoids from Artemisia anomala, 2000

Anthracene

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313

Anthraquinone glycosides

Anthraquinones and Lignans from Cassia occidentalis, 1795

Anthraquinones

Anthraquinones and Lignans from Cassia occidentalis, 1795

Antibacterial activity

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

Stereoselective Synthesis, Characterization, and Antibacterial Activities of Novel Isosteviol Derivatives with D-Ring Modification, 2052

Synthesis, Cytotoxicity and Antibacterial Studies of Novel Symmetrically and Nonsymmetrically 4-(Methoxycarbonyl)benzyl-Substituted N-Heterocyclic Carbene–Silver Acetate Complexes, 2347

Anticancer activity

Synthesis, Cytotoxicity and Antibacterial Studies of Novel Symmetrically and Nonsymmetrically 4-(Methoxycarbonyl)benzyl-Substituted N-Heterocyclic Carbene–Silver Acetate Complexes, 2347

Antidiabetes activity

New Triterpenoid Saponins from the Roots of Gypsophila paniculata L., 361

Antifungal activity

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

A New Antifungal Cyclic Lipopeptide from Bacillus marinus B-9987, 2419

Anti-HIV activity

Anthraquinones and Lignans from Cassia occidentalis, 1795

Antilarval activity

New Steroids and a New Alkaloid from the Gorgonian Isis minorbrachyblasta: Structures, Cytotoxicity, and Antilarval Activity, 511

Antimicrobial activity

New a-Tetralone Galloylglucosides from the Fresh Pericarps of Juglans sigillata, 265

Antioxidant activity

A New Nortriterpene from the Root of Celastrus hypoleucus, 1628

Antiprotozoal activity

New Sphingolipids and Other Constituents of Pancovia laurentii, 2210

Antitumor activity

A New Nortriterpene from the Root of Celastrus hypoleucus, 1628

Four Novel Diterpenoids from Crinipellis sp. 113, 2151

Apetalolide

New Coumarins and Triterpenes from Calophyllum inophyllum, 1812

Aquilaria sinensis

A New Isofuranonaphthalenone and Benzopyrans from the Endophytic Fungus *Nodulisporium* sp. A4 from *Aquilaria sinensis*, 920

Ardisia gigantifolia

Four New 1,4-Benzoquinone Derivatives and One New Coumarin Isolated from Ardisia gigantifolia, 249 Arenes

Cyclization vs. Elimination Reactions of 5-Aryl-5-hydroxy 1,3-Diones: One-Pot Synthesis of 2-Aryl-2,3dihydro-4H-pyran-4-ones, 1705

Aristolochic acid

Sesquiterpene and Aristolochic Acid Derivatives from Thottea hainanensis, 354

Aristolochic acid III methyl ester, 7-hydroxy-

Sesquiterpene and Aristolochic Acid Derivatives from Thottea hainanensis, 354

Armatosides I and II

Two New Acylated Tridesmosidic Saponins from Astragalus armatus, 870

Aromaticity

The Adverse Effect of Benzannelation on the Aromaticity of Oxocinyl Anion: A Combined Experimental and Theoretical Study, 1532

Arsindolines A and B

Two New Indole Alkaloids from the Marine-Derived Bacterium Aeromonas sp. CB101, 791

Artabotryols A – E

Artabotryols A-E, New Lanostane Triterpenes from the Seeds of Artabotrys odoratissimus, 1925

Artabotrys odoratissimus

Artabotryols A-E, New Lanostane Triterpenes from the Seeds of Artabotrys odoratissimus, 1925

Artemisia anomala

New Sesquiterpenoids from Artemisia anomala, 2000

Artemisia rupestris

New Guaipyridine Sesquiterpene Alkaloids from Artemisia rupestris L., 33

Aryl iodides

The Sonogashira Coupling of Polymer-Supported Propargylamine with Aryl Iodides, 39

N-Arylation

An Efficient N-Arylation of Heterocycles with Aryl-, Heteroaryl-, and Vinylboronic Acids Catalyzed by Copper Fluorapatite, 974

Arylsufonyl isocyanate

A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

Aspergillus versicolor

Four New Alkaloids, Brevianamides O-R, from the Fungus Aspergillus versicolor, 2075

Asperulosidic acid

Biologically Active Iridoids from Hedyotis diffusa, 2488

Aspidofractinine, (14a,15a)-14,15-epoxy-

Monoterpenoid Indole Alkaloids from Alstonia mairei, 2037

Astragalus armatus

Two New Acylated Tridesmosidic Saponins from Astragalus armatus, 870

Asymmetric synthesis

Benzyl N-[(Benzyloxy)methyl]carbamate: An Improved Aminomethylation Electrophile for the Synthesis of (Benzyloxy)carbonyl (Cbz)-Protected Chiral β^2 -Amino Acids, 314

Aureliana fasciculata var. fasciculata

Withanolides from Aureliana fasciculata var. fasciculata, 2478

Aurelianolides A and B

Withanolides from Aureliana fasciculata var. fasciculata, 2478

Axinyssa species

New Epoxy-Substituted Nitrogenous Bisabolene-Type Sesquiterpenes from a Hainan Sponge Axinyssa sp., 517

Azaborines

Reaction of Hydantoin with Boronic Acids, 1093

Azaenamines

A One-Pot Biginelli Synthesis of 6-Unsubstituted 5-Aroylpyrimidin-2(1H)-ones and 6-Acetyl-1,2,4-triazin-3(2H)-ones, 1204

Aza-Prins cyclization

Trimethylsilyl Iodide-Promoted Aza-Prins Cyclization for the Synthesis of 4-Iodopiperidines, 2023

Azides

One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1*H*-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435

Aziridine

Synthesis, Physical Properties, and Cytotoxicity of Nitroxyl-Aziridine Hybrid, 2109

Aziridines, N-phthalimido-

Tri- and Tetrasubstituted *N*-Phthalimidoaziridines in 1,3-Dipolar Cycloaddition Reactions, 847 Aziridines. 2-(trifluoromethyl)-

Azinumes, 2-(trinuorometiny

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

Azodicarboxylates

Tri- and Tetrasubstituted N-Phthalimidoaziridines in 1,3-Dipolar Cycloaddition Reactions, 847

5,5'-Azotetrazolates

Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183

2526

.

Azulenes

Report on an Unusual Cascade Reaction between Azulenes and 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone (=4,5-Dichloro-3,6-dicxocyclohexa-1,4-diene-1,2-dicarbonitrile; DDQ), 1545

Azulenes, 1-acyl-3-methyl-substituted

A New Method for the Synthesis of Nonsymmetrically Substituted Bis(azulen-1-yl) Ketones, 1568

Bacillus marinus B-9987

A New Antifungal Cyclic Lipopeptide from Bacillus marinus B-9987, 2419

Baeyer-Villiger oxidation

Enzyme-Catalyzed Stereoselective Synthesis of Two Novel Carbasugar Derivatives, 1882

Bakuchiol, Δ^3 -2-hydroxy-Synthesis of Racemic Δ^3 -2-Hydroxybakuchiol and Its Analogues, 555

Barbier allylation

Total Synthesis of Aculeatins A and B from L-Malic Acid, 2426

Base pairing

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

Basel and Chemistry

The 550th Anniversary of the Universität Basel, 1460–2010: Paracelsian Beginnings and Chemistry, 1661 *Baylis–Hillman* adducts

The Baylis-Hillman Adducts as Valuable Source for One-Pot Multi-Step Synthesis: A Facile Synthesis of Substituted Piperidin-2-ones, 1180

Bellidin

Correction of a Reported Xanthone Synthesis: The Preparation of a Benzo[c]coumarin, 389

Bellis perennis

Medicinal Flowers. Part 29. Acylated Oleanane-Type Triterpene Bisdesmosides: Perennisaponins G, H, I, J, K, L, and M with Pancreatic Lipase Inhibitory Activity from the Flowers of *Bellis perennis*, 573

Benzaldehyde, 2-amino-

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Benzaldehyde, prenylated

First Total Synthesis of Mappain with a Prenylated and Geranylated Stilbene, 829

Benzamides, 2-ethenyl

Hydriodic Acid-Mediated Cyclization of α-Substituted Secondary 2-Ethenylbenzamides: Synthesis of 2-Substituted 2,3-Dihydro-3,3-dimethyl-1*H*-isoindol-1-ones and 3,3-Disubstituted (*E*)-1-(Arylimino)-1,3dihydroisobenzofurans, 1274

Benzannelation

The Adverse Effect of Benzannelation on the Aromaticity of Oxocinyl Anion: A Combined Experimental and Theoretical Study, 1532

Benz[a]azulene

A New Method for the Synthesis of Nonsymmetrically Substituted Bis(azulen-1-yl) Ketones, 1568 Benzene, 1,3-dimethoxy-

A New Method for the Synthesis of Nonsymmetrically Substituted Bis(azulen-1-yl) Ketones, 1568 Benzene-1,4-diamine

Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and *N*-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System, 1227

Benzene-1,2-diamines

Revisiting the *Hinsberg* Reaction: Facile and Expeditious Synthesis of 3-Substituted Quinoxalin-2(1*H*)-ones under Catalyst-Free Conditions in Water, 1216

A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

One-Pot, Pseudo-Five-Component Synthesis of Bis[2-(arylimino)-1,3-thiazolidin-4-ones], 1401

Benzenediazonium ions, 4-methyl-

Formation and Decomposition of Diazo Ethers under Acidic Conditions. Effects of Ethanol Concentration, Acidity, and Temperature on the Ethanolysis of 4-Methylbenzenediazonium Ions, 877

Benzene-1,2-diols

Total Synthesis of the Biologically Active, Naturally Occurring 3,4-Dibromo-5-[2-bromo-3,4-dihydroxy-6-(methoxymethyl)benzyl]benzene-1,2-diol and Regioselective O-Demethylation of Aryl Methyl Ethers, 1127

Benzo[c]coumarin

Correction of a Reported Xanthone Synthesis: The Preparation of a Benzo[c]coumarin, 389

1,5-Benzodiazepine

A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

Benzofuran

Chemical and Genetic Study of *Ligularia anoleuca* and *L. veitchiana* in Yunnan and Sichuan Provinces of China, 1945

Benzo[a]heptalenes, 2,4-dimethoxy-3-(phenylsulfonyl)-

Alkylation Reactions at the Benzo Moiety of 2,4-Dimethoxy-3-(phenylsulfonyl)benzo[a]heptalenes – Model Compounds of Colchicinoids, 1894

Benzoic acid, 3-amino-

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded α-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

Benzoic acid derivatives

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the *Fenton* and Photo-*Fenton* Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H₂O₂ by O₂, 1067

Benzonitriles, 2-formyl-

A Convenient Synthesis of 2,3-Dihydro-3-methylidene-1*H*-isoindol-1-ones by Reaction of 2-Formylbenzonitriles with Dimethyloxosulfonium Methylide, 1048

Benzophenone glucosides

Three New Benzophenone Glucosides from the Leaves of Planchonella obovata, 522

Benzophenones, 2-amino-

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Benzopyrans

A New Isofuranonaphthalenone and Benzopyrans from the Endophytic Fungus *Nodulisporium* sp. A4 from *Aquilaria sinensis*, 920

1,4-Benzoquinone derivatives

Four New 1,4-Benzoquinone Derivatives and One New Coumarin Isolated from *Ardisia gigantifolia*, 249 **1,4-Benzoquinone**, **2,3-dichloro-5,6-dicyano-**

Report on an Unusual Cascade Reaction between Azulenes and 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone (=4,5-Dichloro-3,6-dioxocyclohexa-1,4-diene-1,2-dicarbonitrile; DDQ), 1545

1H-Benzotriazoles, 1-aryl-

A Novel and Regiospecific Synthesis of 1-Aryl-1*H*-benzotriazoles via Copper(I)-Catalyzed Intramolecular Cyclization Reaction, 1350

2H-1-Benzoxocin

The Adverse Effect of Benzannelation on the Aromaticity of Oxocinyl Anion: A Combined Experimental and Theoretical Study, 1532

1-Benzoxocinyl anions

The Adverse Effect of Benzannelation on the Aromaticity of Oxocinyl Anion: A Combined Experimental and Theoretical Study, 1532

Benzoyl isothiocyanate

A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

Benzyl phosphate, geranylated

First Total Synthesis of Mappain with a Prenylated and Geranylated Stilbene, 829

Benzylamine

Synthesis of Functionalized Tetrahydro-4-oxoindeno[1,2-b]pyrroles from Ninhydrin, Acetylenedicarboxylates, and Primary Amines, 1413

Biginelli reaction

 TiO_2 as a Reusable Catalyst for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1*H*)-ones under Solvent-Free Conditions, 261

A One-Pot *Biginelli* Synthesis of 6-Unsubstituted 5-Aroylpyrimidin-2(1*H*)-ones and 6-Acetyl-1,2,4-triazin-3(2*H*)-ones, 1204

Binding energy

a-Cyclodextrin Host–Guest Binding: A Computational Study of the Different Driving Forces, 2318 **Biodiversity**

Chemical and Genetic Study of *Ligularia anoleuca* and *L. veitchiana* in Yunnan and Sichuan Provinces of China, 1945

Biogenesis

A Rarely Reported Trinorsesquiterpene-Type Structure in an Isolate from Pulicaria insignis, 1808

Biogenetic isoprene rule

Naturstoff-Strukturen hinterfragen, 1439

Biomimetic synthesis

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-*cis*-Disubstituted Tetrahydro-2*H*-pyrans, 1281

The Biomimetic Synthesis and First Characterization of the (+)- and (-)-Isocentrolobines, 2,6-*cis*- and 2,6*trans*-Disubstituted Tetrahydro-2*H*-pyrans, 1299

4,4'-Bipyridine

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 Bipyridine linkers

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313

Bisabolane sesquiterpenes

Efficient Total Synthesis of Racemic Bisabolane Sesquiterpenes Curcuphenol and Xanthorrhizol Starting from Substituted Acetophenones, 1261

Bisabolene

New Epoxy-Substituted Nitrogenous Bisabolene-Type Sesquiterpenes from a Hainan Sponge Axinyssa sp., 517

$Bis(\beta$ -cyclodextrin)

Synthesis of Novel Bis(β-cyclodextrin)s Linked with Glycol and Their Inclusion Complexation with Organic Dyes, 1136

Bis(β -cyclodextrin), 4,4'-sulfonyldianiline-bridged

Fluorescence Sensing and Selective Binding of a Novel 4,4'-Sulfonyldianiline-Bridged $Bis(\beta$ -cyclodextrin) for Bile Salts, 999

Bisdesmosides

New C27 Steroidal Bisdesmosides from the Fresh Stems of Dracaena cambodiana, 302

Bisditerpenoid alkaloids

Trichocarpinine, a Novel Hetidine–Hetisine Type Bisditerpenoid Alkaloid from Aconitum tanguticum var. trichocarpum, 118

Piepunine, A Novel Bis-diterpenoid Alkaloid from the Roots of Aconitum piepunense, 2251

Bis-imidazoles, phenylene-linked

Novel Disubstituted Phenylene-Linked Bis-imidazole Derivatives: Facile Synthesis and Optical Properties, 2397

Bisnorditerpenes

Terpenoids from Croton regelianus, 375

Boronic acids

Reaction of Hydantoin with Boronic Acids, 1093

Borreria verticillata

New Chemical Constituents from Borreria verticillata (Rubiaceae), 1751

Brachvaconitines A – D

Four New Nor-Diterpenoid Alkaloids from Aconitum brachypodum, 863 Bractatin

Three New Caged Prenylxanthones from Garcinia bracteata, 958

Brefeldin A

Two New 7-Dehydrobrefeldin A Acids from Cylindrocarpon obtusisporum, an Endophytic Fungus of Trewia nudiflora, 324

Brevianamides O – R

Four New Alkaloids, Brevianamides O-R, from the Fungus Aspergillus versicolor, 2075

Briggs-Rauscher reaction

Perturbations of an Acetone-Based Briggs-Rauscher System by a-Tocopherol (Vitamin E), 837 **Butanetetrol**

A Convenient Approach to C2-Chiral 1,1,4,4-Tetrasubstituted Butanetetraols: Direct Alkylation or Arylation

of Enantiomerically Pure Diethyl Tartrates, 497

Butanoic acids, (R)-2-aryl-2-hydroxy-

The Stereoselective Synthesis of 2-Aryl-2-hydroxybutanoic Acid via Menthyl Chiral Auxiliaries, 2015 tert-Butyl hydroperoxide

Peroxide/Potassium Iodide Redox Systems for in situ Oxyiodination of Organic Compounds under Liquid-Phase and Solvent-Free Conditions, 345

But-2-ynedioate, dialkyl

One-Pot, Pseudo-Five-Component Synthesis of Bis[2-(arylimino)-1,3-thiazolidin-4-ones], 1401

Cadinanes

Sesquiterpenoids from Senecio argunensis, 2448

Caffeic acid ester

Three New Monoterpene Alkaloids and a New Caffeic Acid Ester from Incarvillea mairei var. multifoliolata, 718

Caffeoyl derivatives

Neolignans and Caffeoyl Derivatives from Selaginella moellendorffii, 2467

Calophyllum inophyllum

New Coumarins and Triterpenes from Calophyllum inophyllum, 1812

Calophyllum polyanthum

Chromanone Derivatives from the Pericarps of Calophyllum polyanthum, 2183 **Calopolyanic acid**

Chromanone Derivatives from the Pericarps of Calophyllum polyanthum, 2183 Cambodracanosides A and B

New C27 Steroidal Bisdesmosides from the Fresh Stems of Dracaena cambodiana, 302

Camptothecin, (20S)-7-ethyl-10-hydroxy-

Synthetic Studies on Camptothecins. Part 3. Total Synthesis of (20S)-7-Ethyl-10-hydroxycamptothecin via a Bifunctional Thiourea-Based Cinchona Alkaloid-Mediated Enantioselective Cyanosilylation Strategy, 2094

Carbasugars

Enzyme-Catalyzed Stereoselective Synthesis of Two Novel Carbasugar Derivatives, 1882

Carbenes, N-heterocyclic

Synthesis, Cytotoxicity and Antibacterial Studies of Novel Symmetrically and Nonsymmetrically 4-(Methoxycarbonyl)benzyl-Substituted N-Heterocyclic Carbene-Silver Acetate Complexes, 2347

Carbocyclic pyrimidine nucleosides

Synthesis of Carbocyclic Pyrimidine Nucleosides Using the Mitsunobu Reaction: O²- vs. N¹-Alkylation, 309 Cardamine leucantha

Three New Kaempferol Glycosides from Cardamine leucantha, 536

Cardenolides

A New Cardenolide and Two New Pregnane Glycosides from the Root Barks of Periploca sepium, 1602 Carenes

Unusual Reactions of (+)-Car-2-ene and (+)-Car-3-ene with Aldehydes on K10 Clay, 2135

2530

Carotenoids

Towards Carotenoid Dendrimers: Carotenoid Diesters and Triesters with Aromatic Cores, 1149

Carpesium cernuum

Diversity of Sesquiterpenoids from Carpesium cernuum, 595

Cascade reactions

Cascade Synthesis of Functionalized 2*H*-Imidazo[5,1-*a*]isoquinolinium Chlorides from Isoquinoline, Chloroformamidines (= Carbamimidoyl Chlorides), and Isocyanides, 72

Report on an Unusual Cascade Reaction between Azulenes and 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone (=4,5-Dichloro-3,6-dioxocyclohexa-1,4-diene-1,2-dicarbonitrile; DDQ), 1545

Casearia sylvestris

Neolignans from the Leaves of Casearia sylvestris SWARTZ, 139

Casearialignans A – F

Neolignans from the Leaves of Casearia sylvestris SWARTZ, 139

Cassia occidentalis

Anthraquinones and Lignans from Cassia occidentalis, 1795

Castanins G and H

Interconvertible Eudesmanolides Containing a 6,12-Hemiketal Function from *Salvia castanea* DIELS f. *tomentosa* STIB., 1773

Catalpol

New Glycosidic Constituents of Abutilon pakistanicum, 2245

Catalysis

Experimental and Theoretical Conformational Analysis of 5-Benzylimidazolidin-4-one Derivatives – a *'Playground'* for Studying Dispersion Interactions and a *'Windshield-Wiper'* Effect in Organocatalysis, 1 The *Sonogashira* Coupling of Polymer-Supported Propargylamine with Aryl Iodides, 39

- Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocyclic Lactones, 175
- Controlled Ethylene Polymerization Catalyzed by Cp₂^{*}ZrBu₂/[Ph₃C][B(C₆F₅)₄]/^bBu₄Al₂O above Room Temperature, 212

Copper-Catalyzed Ritter-Type Reaction of Unactivated Alkenes with Dichloramine-T, 233

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

- TiO_2 as a Reusable Catalyst for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1*H*)-ones under Solvent-Free Conditions, 261
- An Environmentally Benign Catalytic Method for Efficient and Selective Nucleophilic Ring Opening of Oxiranes by Zirconium Tetrakis(dodecyl Sulfate), 405
- One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1*H*-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435
- Pronounced Catalytic Activity of Manganese(III)-Schiff Base Complexes in the Oxidation of Alcohols by Tetrabutylammonium Peroxomonosulfate, 711
- An Efficient N-Arylation of Heterocycles with Aryl-, Heteroaryl-, and Vinylboronic Acids Catalyzed by Copper Fluorapatite, 974
- Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and N-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System, 1227
- A Novel and Regiospecific Synthesis of 1-Aryl-1*H*-benzotriazoles *via* Copper(I)-Catalyzed Intramolecular Cyclization Reaction, 1350

Phosphomolybdic Acid (PMA)–SiO₂ as a Heterogeneous Solid Acid Catalyst for the One-Pot Synthesis of 2H-Indazolo[1,2-*b*]phthalazine-triones, 1375

Hydroformylation of Oct-1-ene in Novel Ionic Liquid Crystals, 1653

An Improved Preparation of D-Glyceraldehyde 3-Phosphate and Its Use in the Synthesis of 1-Deoxy-Dxylulose 5-Phosphate, 1745

Unusual Reactions of (+)-Car-2-ene and (+)-Car-3-ene with Aldehydes on K10 Clay, 2135

- Three-Component Reaction of Isocyanides and 2-Formylbenzoic Acid with Dibenzylamine Catalyzed by Silica Nanoparticles under Solvent-Free Conditions, 2203
- A Novel Trypsin-Catalyzed Three-Component Mannich Reaction, 2231

A Novel 1-Glycosyl-1H-triazole-Based P,N Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

Catalyst immobilization

Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocyclic Lactones, 175

Catunaregam spinosa

Catunaregin and Epicatunaregin, Two Norneolignans Possessing an Unprecedented Skeleton from Catunaregam spinosa, 339

Catunaregin

Catunaregin and Epicatunaregin, Two Norneolignans Possessing an Unprecedented Skeleton from Catunaregam spinosa, 339

Cedralins A and B

Dihydrobenzofuran Norlignans from the Leaves of Cedrela sinensis A. Juss, 272

Cedrela sinensis

Dihydrobenzofuran Norlignans from the Leaves of Cedrela sinensis A. Juss, 272

Celastrus angulatus

Two New Sesquiterpene Polyol Esters from Celastrus angulatus, 1844

Celastrus hypoleucus

A New Nortriterpene from the Root of Celastrus hypoleucus, 1628

Celastrus orbiculatus

Glycosidic Constituents of Celastrus orbiculatus, 1407

Celastrus paniculatus

New Dihydroagarofuranoid Sesquiterpenes from Celastrus paniculatus, 1716

Cembrane diterpenes

New Cembrane Diterpenes from Taiwanese Soft Coral Sinularia flexibilis, 1329

Centrolobine

The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-cis-Disubstituted Tetrahydro-2H-pyrans, 1281

Ceramides

Tanacetamide D: A New Ceramide from Tanacetum artemisioides, 350

Phlomisamide and Phlomisteriod: A New Ceramide and a New Stigmasterol Derivative from Phlomis cashmeriana, 1428

Cespihypotins W-Z

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral Cespitularia hypotentaculata, 281

Cespilactam A

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral Cespitularia hypotentaculata, 281

Cespitularia hypotentaculata

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral Cespitularia hypotentaculata, 281

Chaetomium globosum

11- and 4'-Epimers of Chaetomugilin A, Novel Cytostatic Metabolites from Marine Fish-Derived Fungus Chaetomium globosum, 542

Chaetomugilin A derivatives

11- and 4'-Epimers of Chaetomugilin A, Novel Cytostatic Metabolites from Marine Fish-Derived Fungus Chaetomium globosum, 542

Chalcones, geranylated

New Synthetic Routes to Biologically Interesting Geranylated Flavanones and Geranylated Chalcones: First Total Synthesis of (\pm) -Prostratol F, Xanthoangelol, and (\pm) -Lespeol, 635

Chelation-controlled reduction

Enantioselective Synthesis of Herbarumin III by Using a Chelation-Controlled Reduction, 1634

2532

(+)-Chelidonine

Conformational Studies of (\pm) -11,12-Didehydro-11-deoxycorynoline and (+)-11,13-Didehydro-11-deoxychelidonine, Hexahydrobenzo[c]phenanthridine-Type Alkaloid Derivatives, by X-Ray Crystal Structure and NMR Analyses, 25

Chemists in Switzerland

The 550th Anniversary of the Universität Basel, 1460-2010: Paracelsian Beginnings and Chemistry, 1661 Chemotaxonomy

Oleanane Saponins and Glycerogalactolipids from the Leaves of Guapira graciliflora, 1058

Chiral auxiliaries

Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90

The Stereoselective Synthesis of 2-Aryl-2-hydroxybutanoic Acid via Menthyl Chiral Auxiliaries, 2015 Chloranthus spicatus

Terpenoids from Roots of Chloranthus spicatus, 803

Chloroformamidine

Cascade Synthesis of Functionalized 2H-Imidazo[5,1-a]isoquinolinium Chlorides from Isoquinoline, Chloroformamidines (= Carbamimidoyl Chlorides), and Isocyanides, 72

Chromanone derivatives

Chromanone Derivatives from the Pericarps of Calophyllum polyanthum, 2183

2H-Chromenes

One-Pot Synthesis of Functionalized 2H-Chromene (=2H-1-Benzopyran) Derivatives via a Three-Component Reaction between a CH-Acid, a Dialkyl Acetylenedicarboxylate, and Methyl Chloroglyoxylate or Benzyl Carbonochloridate Mediated by Triphenylphosphine, 2218

Chromium complexes

Synthesis and Characterization of Dendrimeric Bridged Salen/Saloph Complexes and Investigation of Their Magnetic and Thermal Behaviors, 910

Chromones

A New Monoterpene-Coumarin and a New Monoterpene-Chromone from Gerbera delavayi, 2026

Chrysanthemdiol A

New Sesquiterpenes from the Flowers of Chrysanthemum indicum L., 1953

Chrysanthemum indicum

New Sesquiterpenes from the Flowers of Chrysanthemum indicum L., 1953

Chrysanthguaianolactones A and B

New Sesquiterpenes from the Flowers of Chrysanthemum indicum L., 1953

Cichorium glandulosum

Two New Sesquiterpene Lactones and a Triterpene Glycoside from Cichorium glandulosum, 414

Cipadesins G-I

Three New Limonoids from the Leaves of Cipadessa cinerascens, 698

Cipadessa cinerascens

Three New Limonoids from the Leaves of Cipadessa cinerascens, 698

Citraconic anhydride

Chemoselective and Regiospecific Synthesis of Iminospiro-y-lactones from Maleic Anhydride or Citraconic Anhydride and Alkyl Isocyanides with Dialkyl Acetylenedicarboxylates, 757

Citrinin dimers

Two New Citrinin Dimers from a Volcano Ash-Derived Fungus, Penicillium citrinum HGY1-5, 2224 Citrullus colocynthis

New Pentacyclic Cucurbitane Glucosides from the Fruits of Citrullus colocynthis SCHRAD., 1012 Clausena vestita

A New Coumarin and Carbazole Alkaloid from Clausena vestita D. D. TAO, 985 Clauslactone U

A New Coumarin and Carbazole Alkaloid from Clausena vestita D. D. TAO, 985 Clauszoline N

A New Coumarin and Carbazole Alkaloid from Clausena vestita D. D. TAO, 985 Cleistanthane

Chemical Constituents of Phyllanthus reticulatus, 2276

'Click chemistry'

Rolf Huisgen's Profound Adventures in Chemistry, 1241

A Novel 1-Glycosyl-1H-triazole-Based P,N Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

Clione antarctica

Synthesis of Pteroenone and Its Stereoisomers, a Defensive Metabolite of the Abducted Antarctic Pteropod Clione antarctica, 1933

Coagulansins A and B

Coagulansins A and B, New Withanolides from Withania coagulans DUNAL, 530

Codeine

Synthesis and Characterization of a Novel Diels-Alder Adduct of Codeine, 220

Colchicinoids

Alkylation Reactions at the Benzo Moiety of 2,4-Dimethoxy-3-(phenylsulfonyl)benzo[a]heptalenes - Model Compounds of Colchicinoids, 1894

Colocynthins A-C

New Pentacyclic Cucurbitane Glucosides from the Fruits of Citrullus colocynthis SCHRAD., 1012

Conformational analysis

Experimental and Theoretical Conformational Analysis of 5-Benzylimidazolidin-4-one Derivatives - a 'Playground' for Studying Dispersion Interactions and a 'Windshield-Wiper' Effect in Organocatalysis, 1 Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870

Cooperative binding

Synthesis of Novel Bis(β -cyclodextrin)s Linked with Glycol and Their Inclusion Complexation with Organic Dyes, 1136

Copper complexes

Copper-Catalyzed Ritter-Type Reaction of Unactivated Alkenes with Dichloramine-T, 233

Copper fluorapatite

An Efficient N-Arylation of Heterocycles with Aryl-, Heteroaryl-, and Vinylboronic Acids Catalyzed by Copper Fluorapatite, 974

Copper(I) iodide

A Novel and Regiospecific Synthesis of 1-Aryl-1H-benzotriazoles via Copper(I)-Catalyzed Intramolecular Cyclization Reaction, 1350

Corals

New Steroids and a New Alkaloid from the Gorgonian Isis minorbrachyblasta: Structures, Cytotoxicity, and Antilarval Activity, 511

Coronene

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313

Corphins

Naturstoff-Strukturen hinterfragen, 1439

Corrins

Naturstoff-Strukturen hinterfragen, 1439

(±)-Corvnoline

 $Conformational \ Studies \ of \ (\pm)-11,12-Didehydro-11-deoxycorynoline \ and \ (+)-11,13-Didehydro-11-deoxyche-11-dooxyche-11-dooxyche-11-dooxyche-11-dooxyche-11-dooxyche-11-dooxyche-11-dooxyche-1$ lidonine, Hexahydrobenzo[c]phenanthridine-Type Alkaloid Derivatives, by X-Ray Crystal Structure and NMR Analyses, 25

Cosmos sulfurous

Two Novel $15(10 \rightarrow 1)$ Abeomuurolane Sesquiterpenes from Cosmos sulphureus, 753 Cosmosaldehyde

Two Novel $15(10 \rightarrow 1)$ Abeomuurolane Sesquiterpenes from Cosmos sulphureus, 753 **Cosmosoic acid**

Two Novel $15(10 \rightarrow 1)$ Abeomuurolane Sesquiterpenes from Cosmos sulphureus, 753

2534

Coumarins

Four New 1,4-Benzoquinone Derivatives and One New Coumarin Isolated from *Ardisia gigantifolia*, 249 A New Coumarin and Carbazole Alkaloid from *Clausena vestita* D. D. TAO, 985

New Coumarins and Triterpenes from Calophyllum inophyllum, 1812

A New Monoterpene-Coumarin and a New Monoterpene-Chromone from Gerbera delavayi, 2026

Coupling reactions

Purines. Part XVI. Syntheses, Properties, and Reactions of 8-Aminoxanthines, 2115

Crinipellins C and D Four Novel Diterpenoids from *Crinipellis* sp. 113, 2151

Crinipellis sp. 113

Four Novel Diterpenoids from Crinipellis sp. 113, 2151

Cross-coupling reactions

Synthesis of Racemic Δ^3 -2-Hydroxybakuchiol and Its Analogues, 555

Croton regelianus

Terpenoids from Croton regelianus, 375

Cryptocaryalactone

Total Synthesis of (+)-Cryptocaryalactone and of a Diastereoisomer of (+)-Strictifolione *via* Ring-Closing Metathesis (RCM) and Olefin Cross-Metathesis (CM), 329

Cucurbitane

New Pentacyclic Cucurbitane Glucosides from the Fruits of Citrullus colocynthis SCHRAD., 1012

Cucurbitane triterpenes

Triterpenoids from the Stems of Momordica charantia, 1355

Curculigo orchioides

Three New Dimeric Orcinol Glucosides from Curculigo orchioides, 504

Curculigo sinensis

Norlignans from Rhizomes of Curculigo sinensis, 724

Curcuphenol

Efficient Total Synthesis of Racemic Bisabolane Sesquiterpenes Curcuphenol and Xanthorrhizol Starting from Substituted Acetophenones, 1261

Curtius rearrangement

Regioselective Synthesis of the 5,6-Dihydro-4H-furo[2,3-c]pyrrol-4-one Skeleton: A New Class of Compounds, 1698

Curvularin, 11*β*-methoxy-

Stereoselective Total Synthesis of (11β) -11-Methoxycurvularin, 147

Cyanate

A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176

Cyanosilylation

Synthetic Studies on Camptothecins. Part 3. Total Synthesis of (20S)-7-Ethyl-10-hydroxycamptothecin via a Bifunctional Thiourea-Based Cinchona Alkaloid-Mediated Enantioselective Cyanosilylation Strategy, 2094

Cyclic voltammetry

Synthesis and Redox Behavior of Novel 9,10-Diphenylphenanthrenes, 1912

Synthesis, Physical Properties, and Cytotoxicity of Nitroxyl-Aziridine Hybrid, 2109

Cyclization reactions

- Hydriodic Acid-Mediated Cyclization of α-Substituted Secondary 2-Ethenylbenzamides: Synthesis of 2-Substituted 2,3-Dihydro-3,3-dimethyl-1*H*-isoindol-1-ones and 3,3-Disubstituted (*E*)-1-(Arylimino)-1,3dihydroisobenzofurans, 1274
- The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-cis-Disubstituted Tetrahydro-2H-pyrans, 1281
- The Biomimetic Synthesis and First Characterization of the (+)- and (-)-Isocentrolobines, 2,6-cis- and 2,6trans-Disubstituted Tetrahydro-2H-pyrans, 1299
- A Novel and Regiospecific Synthesis of 1-Aryl-1*H*-benzotriazoles via Copper(I)-Catalyzed Intramolecular Cyclization Reaction, 1350

- Regioselective Synthesis of 5-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-6-phenylsalicylates by One-Pot Cyclizations of 1,3-Bis(silyloxy)buta-1,3-dienes with 2-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-3-ethoxy-1-phenylprop-2-en-1-ones, 1610
- Cyclization vs. Elimination Reactions of 5-Aryl-5-hydroxy 1,3-Diones: One-Pot Synthesis of 2-Aryl-2,3dihydro-4H-pyran-4-ones, 1705
- Synthesis of 5-(Arylselanyl)-2-(arylsulfanyl)benzoates by [3+3] Cyclocondensation of 3-(Arylsulfanyl)-1-(silyloxy)buta-1,3-dienes with 2-(Arylselanyl)-3-(silyloxy)alk-2-en-1-ones, 1779

Stereoselective Total Synthesis of Dodoneine, 1960

Purines. Part XVI. Syntheses, Properties, and Reactions of 8-Aminoxanthines, 2115

Cycloadditions

- One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1H-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435
- Regioselective Synthesis of 4-(Arylsulfanyl)-2-hydroxyhomophthalates by [4+2] Cycloaddition of 3-(Arylsulfanyl)-1-(trimethylsilyloxy)buta-1,3-dienes with Dimethyl Penta-2,3-dienedioate, 704
- Tri- and Tetrasubstituted N-Phthalimidoaziridines in 1,3-Dipolar Cycloaddition Reactions, 847
- Photocycloaddition of Conjugated Cyclohex-2-enones to 2,3-Dimethylbuta-1,3-diene, 1052

Rolf Huisgen's Profound Adventures in Chemistry, 1241

Cycloastragenol

Two New Acylated Tridesmosidic Saponins from Astragalus armatus, 870

Cyclobutanes

Photocycloaddition of Conjugated Cyclohex-2-enones to 2,3-Dimethylbuta-1,3-diene, 1052 Cyclobutenes

Di

Photocycloaddition of Conjugated Cyclohex-2-enones to 2,3-Dimethylbuta-1,3-diene, 1052

Cyclocondensation

Synthesis of Novel Spiropyrimidinones, 430

3,5-Dihydro-2*H*-thieno[2,3-c]pyrrole 1,1-Dioxide – A New Simple Pyrrole Unit. Preliminary Communication, 1192

One-Step Synthesis of 1-(4,5-Diphenylpyrimidin-2-yl)thiourea, 1641

α-Cyclodextrin

a-Cyclodextrin Host-Guest Binding: A Computational Study of the Different Driving Forces, 2318

β-Cyclodextrin

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Cyclodimerization

A Novel and Expedient Synthesis of 7-Pyrimidinylpyrimido[4,5-d]pyrimidinones, 153

Cyclohept-2-en-1-ones, 3-(alk-1-ynyl)-

Photoannelation Reactions of 3-(Alk-1-ynyl)cyclohept-2-en-1-ones, 17

Cyclohexane-1,4-diol, 1-methyl-

Sesquiterpenes and Other Metabolites from the Marine Red Alga Laurencia composita (Rhodomelaceae), 2281

Cyclolignans

Litseaglutinan A and Lignans from Litsea glutinosa, 951

Cyclooctatrienes

Photoannelation Reactions of 3-(Alk-1-ynyl)cyclohept-2-en-1-ones, 17

Cyclopenta-1,3-diene, 4-aryl-5,5-dicyano-

A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176

Cyclopent-2-en-1-one, 2-hydroxy-3,5,5-trimethyl-

Alternative Synthesis of 2-Hydroxy-3,5,5-trimethylcyclopent-2-en-1-one, 111

Cyclosporin

Stereoselective Synthesis of [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-D-valine]]- and [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-L-valine]cyclosporin A, 1583

Cyclotides

Isolation and Characterization of Bioactive Cyclotides from Viola labridorica, 2287

Cylindrocarpon obtusisporum

Two New 7-Dehydrobrefeldin A Acids from Cylindrocarpon obtusisporum, an Endophytic Fungus of Trewia nudiflora, 324

Cytotoxic activity

Phytoquinoids and Secoprezizaane-Type Sesquiterpenes from Illicium arborescens, 123

Spirostanol Saponins from the Fibrous Roots of Ophiopogon japonicus (THUNB.) KER-GAWL, 227

Four New 1,4-Benzoquinone Derivatives and One New Coumarin Isolated from Ardisia gigantifolia, 249 Dihydrobenzofuran Norlignans from the Leaves of Cedrela sinensis A. Juss, 272

New Steroids and a New Alkaloid from the Gorgonian Isis minorbrachyblasta: Structures, Cytotoxicity, and Antilarval Activity, 511

11- and 4'-Epimers of Chaetomugilin A, Novel Cytostatic Metabolites from Marine Fish-Derived Fungus Chaetomium globosum, 542

Guaiane Sesquiterpenoids Isolated from the Fruits of Torilis japonica and Their Cytotoxic Activity, 692 New Cytotoxic Myrsinane-Type Diterpenes from Euphorbia prolifera, 746

Two New Indole Alkaloids from the Marine-Derived Bacterium Aeromonas sp. CB101, 791

Three New Homoisoflavanones from the Ophiopogon japonicus KER-GAWLER (Liliaceae), 980

A Highly Rearranged Pentaprenylxanthonoid from the Resin of Garcinia hanburyi, 1395

New Dihydroagarofuranoid Sesquiterpenes from Celastrus paniculatus, 1716

Cytotoxic Evaluation of Pungencine: A New Tropane Alkaloid from the Roots of Erythroxylum pungens O. E. SCHULZ, 1742

Interconvertible Eudesmanolides Containing a 6,12-Hemiketal Function from Salvia castanea DIELS f. tomentosa STIB., 1773

Study on the Constituents of Roots of Aceriphyllum rossii, 1803

A Novel Alkaloid from Melodinus henryi, 2030

Synthesis, Physical Properties, and Cytotoxicity of Nitroxyl-Aziridine Hybrid, 2109

New Sphingolipids and Other Constituents of Pancovia laurentii, 2210

Isolation and Characterization of Bioactive Cyclotides from Viola labridorica, 2287

Synthesis, Cytotoxicity and Antibacterial Studies of Novel Symmetrically and Nonsymmetrically 4-(Methoxycarbonyl)benzyl-Substituted N-Heterocyclic Carbene-Silver Acetate Complexes, 2347

Triterpenoids and Iridoid Glycosides from Gentiana dahurica, 2439

Dammaranes

Three New Triterpene Saponins from Gynostemma pentaphyllum, 1785 **Daphnane-type diterpenoids**

Daphnane-Type Diterpenoids from the Flower Buds of Daphne genkwa, 1172 Daphne genkwa

Daphnane-Type Diterpenoids from the Flower Buds of Daphne genkwa, 1172 Daphniphyllum alkaloids

Two New Daphniphyllum Alkaloids from Daphniphyllum calycinum, 1209 Daphniphyllum calycinum

Two New Daphniphyllum Alkaloids from Daphniphyllum calycinum, 1209

Daucoeudesmanolactone A

Sesquiterpene Lactones from Daucus glaber, 48

Daucoguaianolactones A-F

Sesquiterpene Lactones from Daucus glaber, 48

Daucus glaber

Sesquiterpene Lactones from Daucus glaber, 48

Dediazoniation

Formation and Decomposition of Diazo Ethers under Acidic Conditions. Effects of Ethanol Concentration, Acidity, and Temperature on the Ethanolysis of 4-Methylbenzenediazonium Ions, 877

Dehydrocoupling

A Study of the Reactivity of Secondary Phosphanes with Radical Sources: A New Dehydrocoupling Reaction, 1081

Dehydrogenation

Formation of 6-Methyl-7,11-diphenylheptaleno[1,2-c]furanones, 934

O-Demethylation

Total Synthesis of the Biologically Active, Naturally Occurring 3,4-Dibromo-5-[2-bromo-3,4-dihydroxy-6-(methoxymethyl)benzyl]benzene-1,2-diol and Regioselective O-Demethylation of Aryl Methyl Ethers, 1127

Dendrimers

Towards Carotenoid Dendrimers: Carotenoid Diesters and Triesters with Aromatic Cores, 1149

Density-functional theory (DFT)

Experimental and Theoretical Conformational Analysis of 5-Benzylimidazolidin-4-one Derivatives – a *'Playground'* for Studying Dispersion Interactions and a *'Windshield-Wiper'* Effect in Organocatalysis, 1 Stereochemical Models for Discussing Additions to α,β -Unsaturated Aldehydes Organocatalyzed by

Diarylprolinol or Imidazolidinone Derivatives – Is There an '(E)/(Z)-Dilemma'?, 603 The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an α -Heptapeptide: A Computational Study, 1513

Unusual Reactions of (+)-Car-2-ene and (+)-Car-3-ene with Aldehydes on K10 Clay, 2135

2'-Deoxyguanosines

Nucleotides. Part LXXVIII. Double Labeling of Nucleosides and Nucleotides, 2365

1-Deoxy-D-xylulose 5-phosphate

An Improved Preparation of D-Glyceraldehyde 3-Phosphate and Its Use in the Synthesis of 1-Deoxy-Dxylulose 5-Phosphate, 1745

Dess-Martin oxidation

Total Synthesis of Nonenolide, 1422

Diacetylenes

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 Diaryl sulfides

Regioselective Synthesis of 5-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-6-phenylsalicylates by One-Pot Cyclizations of 1,3-Bis(silyloxy)buta-1,3-dienes with 2-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-3-ethoxy-1-phenylprop-2-en-1-ones, 1610

Diarylheptanoid precursors

The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-*cis*-Disubstituted Tetrahydro-2*H*-pyrans, 1281

The Biomimetic Synthesis and First Characterization of the (+)- and (-)-Isocentrolobines, 2,6-cis- and 2,6trans-Disubstituted Tetrahydro-2H-pyrans, 1299

Diarylheptanoids

New Diarylheptanoids and Kavalactone from Alpinia katsumadai HAYATA, 382

Diazo ethers

Formation and Decomposition of Diazo Ethers under Acidic Conditions. Effects of Ethanol Concentration, Acidity, and Temperature on the Ethanolysis of 4-Methylbenzenediazonium Ions, 877

Diazotization reactions

Purines. Part XVI. Syntheses, Properties, and Reactions of 8-Aminoxanthines, 2115

Dibenz[b,f]oxocinyl anions

The Adverse Effect of Benzannelation on the Aromaticity of Oxocinyl Anion: A Combined Experimental and Theoretical Study, 1532

Dichloramine-T

Copper-Catalyzed Ritter-Type Reaction of Unactivated Alkenes with Dichloramine-T, 233

Diels-Alder reaction

Synthesis and Characterization of a Novel Diels-Alder Adduct of Codeine, 220

 $\label{eq:synthesis} Synthesis and Characterization of New 7-Substituted 6,14-Ethenomorphinane Derivatives: $N-[5-[(5\alpha,7\alpha)-4,5-Epoxy-3,6-dimethoxy-17-methyl-6,14-ethenomorphinan-7-yl]-1,3,4-oxadiazol-2-yl]arenamines, 2406$

Diethylzinc

The Stereoselective Synthesis of 2-Aryl-2-hydroxybutanoic Acid via Menthyl Chiral Auxiliaries, 2015

Dihydrocrinipellin A

Four Novel Diterpenoids from Crinipellis sp. 113, 2151

Diketenes

A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

2538

Diketopiperazine alkaloids

Diketopiperazine Alkaloids from Penicillium spp. HS-3, an Endophytic Fungus in Huperzia serrata, 772

Dimethyloxosulfonium methylide

A Convenient Synthesis of 2,3-Dihydro-3-methylidene-1*H*-isoindol-1-ones by Reaction of 2-Formylbenzonitriles with Dimethyloxosulfonium Methylide, 1048

Dinucleosides

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

Diphenyl phosphonate

Solvent-Free Synthesis of Diphenyl [2-(Aminocarbonyl)-1,2-dihydroisoquinolin-1-yl]phosphonates from Isoquinoline, Isocyanates, and Diphenyl Phosphonate, 654

Diphosphanes

A Study of the Reactivity of Secondary Phosphanes with Radical Sources: A New Dehydrocoupling Reaction, 1081

Diterpenes

New Cytotoxic Myrsinane-Type Diterpenes from Euphorbia prolifera, 746

New Cembrane Diterpenes from Taiwanese Soft Coral Sinularia flexibilis, 1329

Labdane Diterpenes and Flavonoids from Leonurus japonicus, 2045

Stereoselective Synthesis, Characterization, and Antibacterial Activities of Novel Isosteviol Derivatives with D-Ring Modification, 2052

Sesquiterpenes and Other Metabolites from the Marine Red Alga Laurencia composita (Rhodomelaceae), 2281

Diterpenoid alkaloids

Five New C₁₉-Diterpenoid Alkaloids from *Aconitum hemsleyanum*, 482

Three New C₁₉-Diterpenoid Alkaloids from Aconitum hemsleyanum var. circinatum, 785

New Diterpenoid Alkaloids from Aconitum liangshanicum, 811

Diterpenoids

Additional ent-Kaurane Diterpenoids from Rubus corchorifolius L. f., 84

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral *Cespitularia hypotentaculata*, 281

Three New Diterpenoids from Rabdosia lophanthoides var. gerardiana, 450

Four New Terpenoids from Xylaria sp. 101, 796

Terpenoids from Roots of Chloranthus spicatus, 803

Three New Diterpenoids from Euphorbia sororia L., 1156

Daphnane-Type Diterpenoids from the Flower Buds of Daphne genkwa, 1172

Four Novel Diterpenoids from Crinipellis sp. 113, 2151

Chemical Constituents of Phyllanthus reticulatus, 2276

Dodoneine

Stereoselective Total Synthesis of Dodoneine, 1960

Domino reactions

Synthesis of Novel Spiropyrimidinones, 430

Double-bond shift

Synthesis of 1-Methyl-6,10-diphenylheptalene Derivatives, 729

Formation of 6-Methyl-7,11-diphenylheptaleno[1,2-c]furanones, 934

Dracaena cambodiana

New C27 Steroidal Bisdesmosides from the Fresh Stems of Dracaena cambodiana, 302

Drug-membrane interactions

Drug-Membrane Interaction on Immobilized Liposome Chromatography Compared to Immobilized Artificial Membrane (IAM), Liposome/Water, and Octan-1-ol/Water Systems, 203

DXP Synthase

An Improved Preparation of D-Glyceraldehyde 3-Phosphate and Its Use in the Synthesis of 1-Deoxy-Dxylulose 5-Phosphate, 1745

Dyes

Synthesis of Novel Bis(β -cyclodextrin)s Linked with Glycol and Their Inclusion Complexation with Organic Dyes, 1136

Dysprosium complexes

Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183

Echinops ritro

Three New Sesquiterpenoids from Echinops ritro L., 1344

Electrochemistry

Synthesis and Redox Behavior of Novel 9,10-Diphenylphenanthrenes, 1912

Electrocyclizations

Rolf Huisgen's Profound Adventures in Chemistry, 1241

Electron spin resonance (ESR)

Synthesis, Physical Properties, and Cytotoxicity of Nitroxyl-Aziridine Hybrid, 2109

Enamines

- A One-Pot Biginelli Synthesis of 6-Unsubstituted 5-Aroylpyrimidin-2(1H)-ones and 6-Acetyl-1,2,4-triazin-3(2H)-ones, 1204
- A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

Enantiomer separation

Synthesis of 1-Methyl-6,10-diphenylheptalene Derivatives, 729

Enantioselective synthesis

- Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90
- Enantioselective Synthesis of Herbarumin III by Using a Chelation-Controlled Reduction, 1634
- Synthetic Studies on Camptothecins. Part 3. Total Synthesis of (20S)-7-Ethyl-10-hydroxycamptothecin via a Bifunctional Thiourea-Based Cinchona Alkaloid-Mediated Enantioselective Cyanosilylation Strategy, 2094
- A Novel 1-Glycosyl-1*H*-triazole-Based *P*,*N* Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

Entropy

a-Cyclodextrin Host-Guest Binding: A Computational Study of the Different Driving Forces, 2318

Enzymatic resolution

Enzyme-Catalyzed Stereoselective Synthesis of Two Novel Carbasugar Derivatives, 1882

Enzymes

An Improved Preparation of D-Glyceraldehyde 3-Phosphate and Its Use in the Synthesis of 1-Deoxy-Dxylulose 5-Phosphate, 1745

Epicatunaregin

Catunaregin and Epicatunaregin, Two Norneolignans Possessing an Unprecedented Skeleton from *Catunaregam spinosa*, 339

Epichaetomugilins A

11- and 4'-Epimers of Chaetomugilin A, Novel Cytostatic Metabolites from Marine Fish-Derived Fungus Chaetomium globosum, 542

Epoxidation

Alternative Synthesis of 2-Hydroxy-3,5,5-trimethylcyclopent-2-en-1-one, 111

Epoxide opening

Stereoselective Total Synthesis of (11β) -11-Methoxycurvularin, 147

Epoxydines A and B

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

4,5-Epoxymorphinan opioids

Synthesis and Characterization of a Novel Diels-Alder Adduct of Codeine, 220

Eremophilanes

Eremophilane Sesquiterpenoids from Ligularia fischeri, 1983

Erica arborea

Two New Phenylpropanoid Glycosides from the Leaves and Flowers of Erica arborea, 77

2541

Erythronolide A

Rolf Huisgen's Profound Adventures in Chemistry, 1241

Erythroxylum pungens

Cytotoxic Evaluation of Pungencine: A New Tropane Alkaloid from the Roots of *Erythroxylum pungens* O. E. SCHULZ, 1742

Esters, α-oxo

Revisiting the *Hinsberg* Reaction: Facile and Expeditious Synthesis of 3-Substituted Quinoxalin-2(1*H*)-ones under Catalyst-Free Conditions in Water, 1216

The Stereoselective Synthesis of 2-Aryl-2-hydroxybutanoic Acid via Menthyl Chiral Auxiliaries, 2015 Ethanolysis

Ethanolysi

Formation and Decomposition of Diazo Ethers under Acidic Conditions. Effects of Ethanol Concentration, Acidity, and Temperature on the Ethanolysis of 4-Methylbenzenediazonium Ions, 877

6,14-Ethenomorphinan derivatives

Synthesis and Characterization of New 7-Substituted 6,14-Ethenomorphinane Derivatives: *N*-{5-[(5α,7α)-4,5-Epoxy-3,6-dimethoxy-17-methyl-6,14-ethenomorphinan-7-yl]-1,3,4-oxadiazol-2-yl]arenamines, 2406

Ether cleavage

Total Synthesis of the Biologically Active, Naturally Occurring 3,4-Dibromo-5-[2-bromo-3,4-dihydroxy-6-(methoxymethyl)benzyl]benzene-1,2-diol and Regioselective O-Demethylation of Aryl Methyl Ethers, 1127

Ethylene glycol

Synthesis of Novel Bis(β-cyclodextrin)s Linked with Glycol and Their Inclusion Complexation with Organic Dyes, 1136

Eucalyptus maideni

Phenolic Compounds from the Fresh Leaves of Eucalyptus maideni, 2194

Eudesmane sesquiterpenes

New Sesquiterpenes from the Flowers of Chrysanthemum indicum L., 1953

Eudesmanes

Terpenoids from Roots of Chloranthus spicatus, 803

Sesquiterpenoids from Senecio argunensis, 2448

Eudesmanolide-type sesquiterpene

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral *Cespitularia hypotentaculata*, 281

Euphorbia prolifera

New Cytotoxic Myrsinane-Type Diterpenes from Euphorbia prolifera, 746

Euphorbia sororia

Three New Diterpenoids from Euphorbia sororia L., 1156

Eurycorymbus cavaleriei

Eleven New Triterpenes from Eurycorymbus cavaleriei, 2263

Evans' intramolecular oxa-Michael syn-addition reaction

Total Synthesis of a Mevinic Acid Analog, 2158

Exaltolide

Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocyclic Lactones, 175

Fenton process

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the *Fenton* and Photo-*Fenton* Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H₂O₂ by O₂, 1067

Ferula ferulaeoides

Two Novel Sesquiterpenoids from the Roots of Ferula ferulaeoides (STEUD.) KOROV., 1019

Ferulactones A and B

Two Novel Sesquiterpenoids from the Roots of *Ferula ferulaeoides* (STEUD.) KOROV., 1019 Flavanones, geranylated

New Synthetic Routes to Biologically Interesting Geranylated Flavanones and Geranylated Chalcones: First Total Synthesis of (±)-Prostratol F, Xanthoangelol, and (±)-Lespeol, 635

Flavonoids

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Three New Kaempferol Glycosides from Cardamine leucantha, 536

Flavonol glycosides

Three New Benzophenone Glucosides from the Leaves of Planchonella obovata, 522

Fluorescence

Fluorescence Sensing and Selective Binding of a Novel 4,4'-Sulfonyldianiline-Bridged $Bis(\beta$ -cyclodextrin) for Bile Salts, 999

Novel Disubstituted Phenylene-Linked Bis-imidazole Derivatives: Facile Synthesis and Optical Properties, 2397

Fluorescence labeling

Nucleotides. Part LXXVIII. Double Labeling of Nucleosides and Nucleotides, 2365

Friedel-Crafts acylation

Stereoselective Total Synthesis of (11β) -11-Methoxycurvularin, 147

Friedländer condensation

Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242

Synthetic Studies on Camptothecins. Part 3. Total Synthesis of (20S)-7-Ethyl-10-hydroxycamptothecin via a Bifunctional Thiourea-Based Cinchona Alkaloid-Mediated Enantioselective Cyanosilylation Strategy, 2094

Friedooleanane triterpenes

Triterpenoids from the Stems of Momordica charantia, 1355

Fungi

- and 4'-Epimers of Chaetomugilin A, Novel Cytostatic Metabolites from Marine Fish-Derived Fungus Chaetomium globosum, 542
- A New Isofuranonaphthalenone and Benzopyrans from the Endophytic Fungus *Nodulisporium* sp. A4 from *Aquilaria sinensis*, 920
- New Lactone and Xanthone Derivatives Produced by a Mangrove Endophytic Fungus *Phoma* sp. SK3RW1M from the South China Sea, 1369
- Two New Citrinin Dimers from a Volcano Ash-Derived Fungus, Penicillium citrinum HGY1-5, 2224

Furan-2,3-diones

Multicomponent Reactions of Furan-2,3-diones: Synthesis and Characterizations of Furo[3,2-c]pyran-4-ones, 1336

Furanoeremophilanes

Chemical and Genetic Study of *Ligularia anoleuca* and *L. veitchiana* in Yunnan and Sichuan Provinces of China, 1945

Furans

Synthesis of New Phosphonium Ylides Containing Thiophene and Furan Rings and Study of Their Reaction with Mercury(II) Halides: Spectral and Structural Characterization, 1105

Furoindolinone

Regioselective Synthesis of the 5,6-Dihydro-4H-furo[2,3-c]pyrrol-4-one Skeleton: A New Class of Compounds, 1698

Furo[3,2-c]pyran-4-ones

Multicomponent Reactions of Furan-2,3-diones: Synthesis and Characterizations of Furo[3,2-c]pyran-4-ones, 1336

Furopyrimidine derivatives

A Novel Approach for the Synthesis of Furopyrimidine and Oxobenzofuran Derivatives, 2189

4H-Furo[2,3-c]pyrrol-4-one, 5,6-dihydro-

Regioselective Synthesis of the 5,6-Dihydro-4H-furo[2,3-c]pyrrol-4-one Skeleton: A New Class of Compounds, 1698

Gambogefic acid A

A Highly Rearranged Pentaprenylxanthonoid from the Resin of *Garcinia hanburyi*, 1395 Gambogellic acid A

A Highly Rearranged Pentaprenylxanthonoid from the Resin of Garcinia hanburyi, 1395

Gamboketanol

A Highly Rearranged Pentaprenylxanthonoid from the Resin of Garcinia hanburyi, 1395 Garcinia bracteata

Three New Caged Prenylxanthones from Garcinia bracteata, 958

Garcinia hanburyi

A Highly Rearranged Pentaprenylxanthonoid from the Resin of Garcinia hanburyi, 1395

Gardenia jasminoides

Monoterpenoids from the Fruit of Gardenia jasminoides, 763

Gels

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 25. Structural Effects on the Gelation of Self-Complementary A*[s]U Dinucleosides, 888

Geniposidic acid

Biologically Active Iridoids from Hedyotis diffusa, 2488

Genkwanines M-O

Daphnane-Type Diterpenoids from the Flower Buds of Daphne genkwa, 1172

Gentiana dahurica

Triterpenoids and Iridoid Glycosides from Gentiana dahurica, 2439

Gerbera delavayi

A New Monoterpene-Coumarin and a New Monoterpene-Chromone from Gerbera delavayi, 2026

Germacranolides

New Sesquiterpenoids from Artemisia anomala, 2000

a-Glucosidase inhibitors

New Triterpenoid Saponins from the Roots of Gypsophila paniculata L., 361

Three New Benzophenone Glucosides from the Leaves of Planchonella obovata, 522

Glucosides

Secoiridoid Constituents from the Fruits of Ligustrum lucidum, 65

Two New Phenylpropanoid Glycosides from the Leaves and Flowers of Erica arborea, 77 New a-Tetralone Galloylglucosides from the Fresh Pericarps of Juglans sigillata, 265 Three New Dimeric Orcinol Glucosides from Curculigo orchioides, 504 New Pentacyclic Cucurbitane Glucosides from the Fruits of Citrullus colocynthis SCHRAD., 1012 Chemical Constituents of Phyllanthus reticulatus, 2276

Glycation

Study of Lysozyme Glycation Reaction by Mass Spectrometry and NMR Spectroscopy, 991

D-Glyceraldehyde 3-phosphate

An Improved Preparation of D-Glyceraldehyde 3-Phosphate and Its Use in the Synthesis of 1-Deoxy-Dxylulose 5-Phosphate, 1745

Glycerogalactolipids

Oleanane Saponins and Glycerogalactolipids from the Leaves of Guapira graciliflora, 1058

Glycosides

Three New Glycosides from Viburnum plicatum THUNB. var. tomentosum MIQ., 290 Two New Sesquiterpene Lactones and a Triterpene Glycoside from Cichorium glandulosum, 414 Four New Triterpenes from Anchusa azurea var. azurea, 457 Three New Benzophenone Glucosides from the Leaves of *Planchonella obovata*, 522 Three New Kaempferol Glycosides from Cardamine leucantha, 536 Glycosidic Constituents of Celastrus orbiculatus, 1407 A New Cardenolide and Two New Pregnane Glycosides from the Root Barks of Periploca sepium, 1602 Three New Paeonidanin-Type Monoterpene Glycosides from Paeonia suffruticosa ANDR., 1622 Anthraquinones and Lignans from Cassia occidentalis, 1795 Two New Disulfated Triterpenoids from Zygophyllum fabago, 2070 Four New Lignan Glycosides from Osmanthus fragrans LOUR. var. aurantiacus MAKINO, 2164 Phenolic Compounds from the Fresh Leaves of Eucalyptus maideni, 2194 Presenegenin Glycosides from Securidaca welwitschii, 2237 New Glycosidic Constituents of Abutilon pakistanicum, 2245

Three New C_{21} Steroidal Glycosides from the Stems of *Marsdenia tenacissina*, 2256 Triterpenoids and Iridoid Glycosides from *Gentiana dahurica*, 2439

Goniothalesdiol A

Stereoselective Total Synthesis of Goniothalesdiol A via Chiron Approach, 1362

Green chemistry

An Environmentally Benign Catalytic Method for Efficient and Selective Nucleophilic Ring Opening of Oxiranes by Zirconium Tetrakis(dodecyl Sulfate), 405

Three-Component Reaction of an Isocyanide and a Dialkyl Acetylenedicarboxylate with a Phenacyl Halide in the Presence of Water: An Efficient Method for the One-Pot Synthesis of γ-Iminolactone Derivatives, 2033

Grignard reaction

A Convenient Approach to C₂-Chiral 1,1,4,4-Tetrasubstituted Butanetetraols: Direct Alkylation or Arylation of Enantiomerically Pure Diethyl Tartrates, 497

GROMOS Force field

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870

a-Cyclodextrin Host-Guest Binding: A Computational Study of the Different Driving Forces, 2318

Grubbs' catalyst

Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocyclic Lactones, 175

Total Synthesis of (+)-Cryptocaryalactone and of a Diastereoisomer of (+)-Strictifolione *via* Ring-Closing Metathesis (RCM) and Olefin Cross-Metathesis (CM), 329

Stereoselective Total Synthesis of Dodoneine, 1960

Guaiane sesquiterpenoids

Terpenoids from Croton regelianus, 375

Guaiane Sesquiterpenoids Isolated from the Fruits of *Torilis japonica* and Their Cytotoxic Activity, 692 Guaianolides

Gualanolides

New Sesquiterpenes from the Flowers of Chrysanthemum indicum L., 1953

New Sesquiterpenoids from Artemisia anomala, 2000

Guaipyridine sesquiterpene alkaloids

New Guaipyridine Sesquiterpene Alkaloids from Artemisia rupestris L., 33

Guapira graciliflora

Oleanane Saponins and Glycerogalactolipids from the Leaves of Guapira graciliflora, 1058

Gynostemma pentaphyllum

Three New Triterpene Saponins from Gynostemma pentaphyllum, 1785

Gypsophila paniculata

New Triterpenoid Saponins from the Roots of Gypsophila paniculata L., 361

Hairpin turn

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870 *Haliclona* species

New Polyunsaturated Amino Ketones from a Guangxi Sponge Haliclona sp., 1199

Heck cross-coupling reactions

Double Heck Cross-Coupling Reactions of Dibrominated Pyridines, 1764

Hedyotis diffusa

Biologically Active Iridoids from Hedyotis diffusa, 2488

Helical secondary structure

The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an α -Heptapeptide: A Computational Study, 1513

Helix

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded α-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

Hemiketals

Interconvertible Eudesmanolides Containing a 6,12-Hemiketal Function from *Salvia castanea* DIELS f. *tomentosa* STIB., 1773

Hemsleyaconitines A - E

Five New C19-Diterpenoid Alkaloids from Aconitum hemsleyanum, 482

Hemsleyanines E-G

Three New C₁₉-Diterpenoid Alkaloids from Aconitum hemsleyanum var. circinatum, 785

Henryoside derivatives

Three New Glycosides from Viburnum plicatum THUNB. var. tomentosum MIQ., 290

Heptalenes

Formation of 6-Methyl-7,11-diphenylheptaleno[1,2-c]furanones, 934

Heptalenes, 1-methyl-6,10-diphenyl-

Synthesis of 1-Methyl-6,10-diphenylheptalene Derivatives, 729

Heptaleno[1,2-c]furanones, 6-methyl-7,11-diphenyl-

Formation of 6-Methyl-7,11-diphenylheptaleno[1,2-c]furanones, 934

Herbarumin III

Enantioselective Synthesis of Herbarumin III by Using a Chelation-Controlled Reduction, 1634

Hetero-Diels-Alder reaction

Synthesis of Novel Polycyclic Indole-Annulated Thiopyranocoumarin Derivatives via Domino Knoevenagel– Hetero-Diels–Alder Reaction in Aqueous Media, 964

Heterogeneous catalysis

One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1H-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435

Hetidine-hetisine type alkaloid

Trichocarpinine, a Novel Hetidine-Hetisine Type Bisditerpenoid Alkaloid from Aconitum tanguticum var. trichocarpum, 118

Hinsberg reaction

Revisiting the *Hinsberg* Reaction: Facile and Expeditious Synthesis of 3-Substituted Quinoxalin-2(1*H*)-ones under Catalyst-Free Conditions in Water, 1216

History of Chemistry

The 550th Anniversary of the Universität Basel, 1460–2010: Paracelsian Beginnings and Chemistry, 1661 HMGCo A Reductase inhibitor

Total Synthesis of a Mevinic Acid Analog, 2158

Homoallyl N-tosylamine

Trimethylsilyl Iodide-Promoted Aza-Prins Cyclization for the Synthesis of 4-Iodopiperidines, 2023

Homodaphniphyllate, methyl 7-hydroxy-

Two New Daphniphyllum Alkaloids from Daphniphyllum calycinum, 1209

Homoisoflavanones

Three New Homoisoflavanones from the Ophiopogon japonicus KER-GAWLER (Liliaceae), 980

Homophthalates, 4-(arylsulfanyl)-2-hydroxy-

Regioselective Synthesis of 4-(Arylsulfanyl)-2-hydroxyhomophthalates by [4+2] Cycloaddition of 3- (Arylsulfanyl)-1-(trimethylsilyloxy)buta-1,3-dienes with Dimethyl Penta-2,3-dienedioate, 704

Hopane

Eleven New Triterpenes from Eurycorymbus cavaleriei, 2263

Horner-Wadsworth-Emmons olefination

First Total Synthesis of Mappain with a Prenylated and Geranylated Stilbene, 829

Stereoselective Total Synthesis of Goniothalesdiol A via Chiron Approach, 1362

Horseradish peroxidase

Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and N-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System, 1227

Huisgen, Rolf

Rolf Huisgen's Profound Adventures in Chemistry, 1241

Huperzia serrata

Diketopiperazine Alkaloids from *Penicillium* spp. HS-3, an Endophytic Fungus in *Huperzia serrata*, 772 Two New Lycopodine Alkaloids from *Huperzia serrata*, 1187

Huperzine G, (12β) -12-hydroxy-

Two New Lycopodine Alkaloids from Huperzia serrata, 1187

Hydantoin

Potassium Thiocyanate-Promoted One-Pot Synthesis of (1,3-Diaryl-2,5-dioxoimidazolidin-4-ylidene)acetates from Aryl Isocyanates and Alkyl Propiolates. Short Communication, 1851

Hydantoin derivatives

Reaction of Hydantoin with Boronic Acids, 1093

Hydrazonovl chlorides

One-Pot Synthesis of Functionalized 3-Aryl-1-phenyl-1H-pyrazoles from Hydrazonoyl Chlorides and Acetylenic Esters in the Presence of Ph₃P, 277

Hydriodic acid

Hydriodic Acid-Mediated Cyclization of a-Substituted Secondary 2-Ethenylbenzamides: Synthesis of 2-Substituted 2,3-Dihydro-3,3-dimethyl-1H-isoindol-1-ones and 3,3-Disubstituted (E)-1-(Arylimino)-1,3dihydroisobenzofurans, 1274

Hydroboration Hydroformylation

Stereoselective Total Synthesis of Goniothalesdiol A via Chiron Approach, 1362

Hydroformylation of Oct-1-ene in Novel Ionic Liquid Crystals, 1653

Hvdrogel

Supramolecular Hydrogels Based on L-Phenylalanine Derivatives with a Positively Charged Terminal Group, 158

Hydrogen bonds

Supramolecular Hydrogels Based on L-Phenylalanine Derivatives with a Positively Charged Terminal Group, 158

- Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668
- Oligonucleotide Analogues with Integrated Bases and Backbones. Part 25. Structural Effects on the Gelation of Self-Complementary A*[s]U Dinucleosides, 888
- Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced syn-Conformation, 1822
- Molecular Dynamics Simulation of Ester-Linked Hen Egg White Lysozyme Reveals the Effect of Missing Backbone Hydrogen Bond Donors on the Protein Structure, 1857

Hydrophobic interaction

Supramolecular Hydrogels Based on L-Phenylalanine Derivatives with a Positively Charged Terminal Group, 158

Hydrosilylation, asymmetric

A Novel 1-Glycosyl-1H-triazole-Based P,N Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

Hydroxylation

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the Fenton and Photo-Fenton Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H2O2 by O2, 1067

Iatrochemistry

The 550th Anniversary of the Universität Basel, 1460-2010: Paracelsian Beginnings and Chemistry, 1661 Illicium arborescens

Phytoquinoids and Secoprezizaane-Type Sesquiterpenes from Illicium arborescens, 123 **Illifunone E derivatives**

Phytoquinoids and Secoprezizaane-Type Sesquiterpenes from Illicium arborescens, 123

Illudalane sesquiterpenoids

Three New Illudalane Sequiterpenoids from Pteris semipinnata, 550

2H-Imidazo[5,1-a]isoquinolinium chloride

Cascade Synthesis of Functionalized 2H-Imidazo[5,1-a]isoquinolinium Chlorides from Isoquinoline, Chloroformamidines (= Carbamimidoyl Chlorides), and Isocyanides, 72

2546

Imidazolidinone derivatives

Stereochemical Models for Discussing Additions to $\alpha\beta$ -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives - Is There an '(E)/(Z)-Dilemma'?, 603

Imidazolidin-4-ones, 5-benzyl-

Experimental and Theoretical Conformational Analysis of 5-Benzylimidazolidin-4-one Derivatives - a 'Playground' for Studying Dispersion Interactions and a 'Windshield-Wiper' Effect in Organocatalysis, 1

Imidazolidin-4-ylideneacetates, 2,5-dioxo-

Potassium Thiocyanate-Promoted One-Pot Synthesis of (1,3-Diaryl-2,5-dioxoimidazolidin-4-ylidene)acetates from Aryl Isocyanates and Alkyl Propiolates. Short Communication, 1851

Imidovl anions

Synthesis of 2,4,8-Trisubstituted 1,7-Naphthyridines by the Reaction of 4-(1-Aryl-2-methoxyethenyl)-3isocyanopyridines with Excess Organolithiums, 2086

Iminium salts

Stereochemical Models for Discussing Additions to α,β -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives - Is There an '(E)/(Z)-Dilemma'?, 603

y-Iminolactones

Three-Component Reaction of an Isocyanide and a Dialkyl Acetylenedicarboxylate with a Phenacyl Halide in the Presence of Water: An Efficient Method for the One-Pot Synthesis of y-Iminolactone Derivatives, 2033

Iminospiro-v-lactones

Chemoselective and Regiospecific Synthesis of Iminospiro-y-lactones from Maleic Anhydride or Citraconic Anhydride and Alkyl Isocyanides with Dialkyl Acetylenedicarboxylates, 757

Immobilized liposome chromatography (ILC)

Drug-Membrane Interaction on Immobilized Liposome Chromatography Compared to Immobilized Artificial Membrane (IAM), Liposome/Water, and Octan-1-ol/Water Systems, 203

Incargranine B

A Unique Indolo-[1,7]naphthyridine Alkaloid from Incarvillea mairei var. grandiflora (WEHRH.) GRIERSON, 2393

Incarvillea mairei

Three New Monoterpene Alkaloids and a New Caffeic Acid Ester from Incarvillea mairei var. multifoliolata, 718

Incarvillea mairei var. grandiflora

A Unique Indolo-[1,7]naphthyridine Alkaloid from Incarvillea mairei var. grandiflora (WEHRH.) GRIERSON, 2393

Inclusion complexes

Fluorescence Sensing and Selective Binding of a Novel 4,4'-Sulfonyldianiline-Bridged Bis(β -cyclodextrin) for Bile Salts 999

a-Cyclodextrin Host-Guest Binding: A Computational Study of the Different Driving Forces, 2318 2H-Indazolo[1,2-b]phthalazinetriones

Phosphomolybdic Acid (PMA)-SiO2 as a Heterogeneous Solid Acid Catalyst for the One-Pot Synthesis of 2H-Indazolo[1,2-b]phthalazine-triones, 1375

Indeno[1,2-b]pyrroles

Synthesis of Functionalized Tetrahydro-4-oxoindeno[1,2-b]pyrroles from Ninhydrin, Acetylenedicarboxylates, and Primary Amines, 1413

Indole alkaloids

Two New Indole Alkaloids from Tabernaemontana hystrix STEUD. (Apocynaceae), 422

Two New Indole Alkaloids from the Marine-Derived Bacterium Aeromonas sp. CB101, 791

New Chemical Constituents from Borreria verticillata (Rubiaceae), 1751

Monoterpenoid Indole Alkaloids from Alstonia mairei, 2037

A Unique Indolo-[1,7] naphthyridine Alkaloid from Incarvillea mairei var. grandiflora (WEHRH.) GRIERSON, 2393

Indole derivatives

Synthesis of Novel Polycyclic Indole-Annulated Thiopyranocoumarin Derivatives via Domino Knoevenagel-Hetero-Diels-Alder Reaction in Aqueous Media, 964

1H-Indole-2.3-dione

A Novel One-Pot Synthesis of Substituted Ouinolines, 946

Indole-2-thiones, dihydro-

Synthesis of Novel Polycyclic Indole-Annulated Thiopyranocoumarin Derivatives via Domino Knoevenagel– Hetero-Diels-Alder Reaction in Aqueous Media, 964

Indolinone

Regioselective Synthesis of the 5,6-Dihydro-4H-furo[2,3-c]pyrrol-4-one Skeleton: A New Class of Compounds, 1698

Indolo[1,7]naphthyridine

A Unique Indolo-[1,7]naphthyridine Alkaloid from *Incarvillea mairei* var. grandiflora (WEHRH.) GRIERSON, 2393

Inhibitors

New Triterpenoid Saponins from the Roots of Gypsophila paniculata L., 361

Three New Benzophenone Glucosides from the Leaves of *Planchonella obovata*, 522 Medicinal Flowers. Part 29. Acylated Oleanane-Type Triterpene Bisdesmosides: Perennisaponins G, H, I, J, K,

L, and M with Pancreatic Lipase Inhibitory Activity from the Flowers of *Bellis perennis*, 573

Three New Phenylpropanoids from Inula nervosa WALL., 1418

Three New Indole-Containing Diketopiperazine Alkaloids from a Deep-Ocean Sediment Derived Fungus Penicillium griseofulvum, 1758

Inophyllum D

New Coumarins and Triterpenes from Calophyllum inophyllum, 1812

Inositols

Neolignans and Caffeoyl Derivatives from Selaginella moellendorffii, 2467

Intramolecular London dispersion

Experimental and Theoretical Conformational Analysis of 5-Benzylimidazolidin-4-one Derivatives – a 'Playground' for Studying Dispersion Interactions and a 'Windshield-Wiper' Effect in Organocatalysis, 1

Inula nervosa

Three New Phenylpropanoids from Inula nervosa WALL., 1418

Iodine

H₅IO₆/KI: A New Combination Reagent for Iodination of Aromatic Amines, and Trimethylsilylation of Alcohols and Phenols through *in situ* Generation of Iodine under Mild Conditions, 587

Ionic liquids

Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocyclic Lactones, 175

Hydroformylation of Oct-1-ene in Novel Ionic Liquid Crystals, 1653

Iridoid glycosides

New Glycosidic Constituents of Abutilon pakistanicum, 2245

Triterpenoids and Iridoid Glycosides from Gentiana dahurica, 2439

Iridoids

New Chemical Constituents from Borreria verticillata (Rubiaceae), 1751

Biologically Active Iridoids from Hedyotis diffusa, 2488

Iriflophenone derivative

Three New Benzophenone Glucosides from the Leaves of Planchonella obovata, 522

Irinotecan

Synthetic Studies on Camptothecins. Part 3. Total Synthesis of (20S)-7-Ethyl-10-hydroxycamptothecin via a Bifunctional Thiourea-Based Cinchona Alkaloid-Mediated Enantioselective Cyanosilylation Strategy, 2094

Iron complexes

Synthesis and Characterization of Dendrimeric Bridged Salen/Saloph Complexes and Investigation of Their Magnetic and Thermal Behaviors, 910

Irradiation

Photoannelation Reactions of 3-(Alk-1-ynyl)cyclohept-2-en-1-ones, 17

Isatin

Efficient and Convenient Polyethylene Glycol (PEG)-Mediated Synthesis of Spiro-oxindoles, 648

A Novel One-Pot Synthesis of Substituted Quinolines, 946

Isatin oxime ethers, N-alkyl-

Microwave-Assisted Three-Component Synthesis of Some Novel 1-Alkyl-1*H*-indole-2,3-dione 3-(*O*-Alkyloxime) Derivatives as Potential Chemotherapeutic Agents, 2454

Isis minorbrachyblasta

New Steroids and a New Alkaloid from the Gorgonian Isis minorbrachyblasta: Structures, Cytotoxicity, and Antilarval Activity, 511

Isoalloxazine derivatives

Nucleotides. Part LXXVI. Synthesis and Properties of New Isoalloxazine (=Benzo[g]pteridine-2,4(1H,3H)-dione) Derivatives as Labels for Oligonucleotides, 1038

Isoaporphine, 6-oxo-

New Approaches to 6-Oxoisoaporphine and Tetrahydroisoquinoline Derivatives, 1385

Isobenzofuran

Unusual Reactions of (+)-Car-2-ene and (+)-Car-3-ene with Aldehydes on K10 Clay, 2135

Isobenzofurans, (E)-1-(arylimino)-1,3-dihydro-

Hydriodic Acid-Mediated Cyclization of α-Substituted Secondary 2-Ethenylbenzamides: Synthesis of 2-Substituted 2,3-Dihydro-3,3-dimethyl-1*H*-isoindol-1-ones and 3,3-Disubstituted (*E*)-1-(Arylimino)-1,3dihydroisobenzofurans, 1274

Isocalopolyanic acid

Chromanone Derivatives from the Pericarps of Calophyllum polyanthum, 2183

Isocentrolobines

The Biomimetic Synthesis and First Characterization of the (+)- and (-)-Isocentrolobines, 2,6-cis- and 2,6trans-Disubstituted Tetrahydro-2H-pyrans, 1299

Isocoumarins

Three-Component Reaction of Isocyanides and 2-Formylbenzoic Acid with Dibenzylamine Catalyzed by Silica Nanoparticles under Solvent-Free Conditions, 2203

Isocyanate, aryl

Potassium Thiocyanate-Promoted One-Pot Synthesis of (1,3-Diaryl-2,5-dioxoimidazolidin-4-ylidene)acetates from Aryl Isocyanates and Alkyl Propiolates. Short Communication, 1851

Isocyanates

Solvent-Free Synthesis of Diphenyl [2-(Aminocarbonyl)-1,2-dihydroisoquinolin-1-yl]phosphonates from Isoquinoline, Isocyanates, and Diphenyl Phosphonate, 654

Isocyanides

Cascade Synthesis of Functionalized 2*H*-Imidazo[5,1-*a*]isoquinolinium Chlorides from Isoquinoline, Chloroformamidines (= Carbamimidoyl Chlorides), and Isocyanides, 72

Three-Component Reaction of an Isocyanide and a Dialkyl Acetylenedicarboxylate with a Phenacyl Halide in the Presence of Water: An Efficient Method for the One-Pot Synthesis of γ-Iminolactone Derivatives, 2033

Three-Component Reaction of Isocyanides and 2-Formylbenzoic Acid with Dibenzylamine Catalyzed by Silica Nanoparticles under Solvent-Free Conditions, 2203

Isoflavones

One-Step Synthesis of 1-(4,5-Diphenylpyrimidin-2-yl)thiourea, 1641

Isofuranonaphthalenones

A New Isofuranonaphthalenone and Benzopyrans from the Endophytic Fungus *Nodulisporium* sp. A4 from *Aquilaria sinensis*, 920

1H-Isoindol-1-ones, 2,3-dihydro-3,3-dimethyl-

Hydriodic Acid-Mediated Cyclization of α-Substituted Secondary 2-Ethenylbenzamides: Synthesis of 2-Substituted 2,3-Dihydro-3,3-dimethyl-1*H*-isoindol-1-ones and 3,3-Disubstituted (*E*)-1-(Arylimino)-1,3dihydroisobenzofurans, 1274

1H-Isoindol-1-ones, 2,3-dihydro-3-methylidene-

A Convenient Synthesis of 2,3-Dihydro-3-methylidene-1*H*-isoindol-1-ones by Reaction of 2-Formylbenzonitriles with Dimethyloxosulfonium Methylide, 1048

Isoquinoline

Cascade Synthesis of Functionalized 2*H*-Imidazo[5,1-*a*]isoquinolinium Chlorides from Isoquinoline, Chloroformamidines (= Carbamimidoyl Chlorides), and Isocyanides, 72

Solvent-Free Synthesis of Diphenyl [2-(Aminocarbonyl)-1,2-dihydroisoquinolin-1-yl]phosphonates from Isoquinoline, Isocyanates, and Diphenyl Phosphonate, 654

Isoquinoline, tetrahydro-

New Approaches to 6-Oxoisoaporphine and Tetrahydroisoquinoline Derivatives, 1385 Isorecedensic acid Chromanone Derivatives from the Pericarps of Calophyllum polyanthum, 2183

Isoselenocyanates, aryl

Synthesis of 1,3-Selenazol-2(3H)-imines, 395

Isoselenoureas

Synthesis of 1,3-Selenazol-2(3H)-imines, 395

Isosteviol derivatives

Stereoselective Synthesis, Characterization, and Antibacterial Activities of Novel Isosteviol Derivatives with D-Ring Modification, 2052

Isothiocyanatobenzene

One-Pot, Pseudo-Five-Component Synthesis of Bis[2-(arylimino)-1,3-thiazolidin-4-ones], 1401

Jasminosides B and J-P

Monoterpenoids from the Fruit of Gardenia jasminoides, 763 Jatrophane Three New Diterpenoids from Euphorbia sororia L., 1156 Johnson-Claisen rearrangement Synthesis of Racemic ∆3-2-Hydroxybakuchiol and Its Analogues, 555 The Baylis-Hillman Adducts as Valuable Source for One-Pot Multi-Step Synthesis: A Facile Synthesis of Substituted Piperidin-2-ones, 1180

Juglans sigillata

New a-Tetralone Galloylglucosides from the Fresh Pericarps of Juglans sigillata, 265

Julibrosides J₁₆, J₁₇, and J₂₁

Cytotoxic Triterpenoid Saponins Acetylated with Monoterpenoid Acid from Albizia julibrissin, 2100

K10 Clay

Unusual Reactions of (+)-Car-2-ene and (+)-Car-3-ene with Aldehydes on K10 Clay, 2135

Kaempferol glycosides

Three New Kaempferol Glycosides from Cardamine leucantha, 536

Karrer, Paul

Naturstoff-Strukturen hinterfragen, 1439

Katsumadain

New Diarylheptanoids and Kavalactone from Alpinia katsumadai HAYATA, 382 Katsumains A and B

New Diarylheptanoids and Kavalactone from Alpinia katsumadai HAYATA, 382 ent-Kauranes

Additional ent-Kaurane Diterpenoids from Rubus corchorifolius L. f., 84

Keck's allulation

Stereoselective Total Synthesis of (11β) -11-Methoxycurvularin, 147

Stereoselective Total Synthesis of Dodoneine, 1960

Keto-enol tautomerism

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Ketones

New Polyunsaturated Amino Ketones from a Guangxi Sponge Haliclona sp., 1199

A Novel 1-Glycosyl-1H-triazole-Based P,N Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

Kinetics

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the Fenton and Photo-Fenton Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H2O2 by O2, 1067

Kingianosides I and K

Two New Steroidal Saponins from the Processed Polygonatum kingianum, 1086

2550

Knoevenagel condensation

Synthesis of Novel Spiropyrimidinones, 430

Synthesis of Novel Polycyclic Indole-Annulated Thiopyranocoumarin Derivatives via Domino Knoevenagel-Hetero-Diels-Alder Reaction in Aqueous Media, 964

Labdane

Terpenoids from Roots of Chloranthus spicatus, 803

Labdane-type diterpenes

Marrusidins A and B, New Epimeric Labdane Diterpenes from Marrubium anisodon, 1101

Labdane Diterpenes and Flavonoids from Leonurus japonicus, 2045

β -Lactam formation

Microwave-Induced Stereocontrol of β -Lactam Formation with an N-Benzylidene-9,10-dihydrophenanthren-3-amine via Staudinger Cycloaddition, 298

Lactams

Eremophilane Sesquiterpenoids from Ligularia fischeri, 1983

Lactones

Sesquiterpene Lactones from Daucus glaber, 48

Phytoquinoids and Secoprezizaane-Type Sesquiterpenes from Illicium arborescens, 123

- Two New Sesquiterpene Lactones and a Triterpene Glycoside from Cichorium glandulosum, 414
- Diversity of Sesquiterpenoids from Carpesium cernuum, 595

Multicomponent Reactions of Furan-2,3-diones: Synthesis and Characterizations of Furo[3,2-c]pyran-4-ones, 1336

Three New Sesquiterpenoids from Echinops ritro L., 1344

New Lactone and Xanthone Derivatives Produced by a Mangrove Endophytic Fungus *Phoma* sp. SK3RW1M from the South China Sea, 1369

Total Synthesis of a Mevinic Acid Analog, 2158

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Lactonization

Total Synthesis of Nonenolide, 1422

Lancifodilactones O - R

Four New Nortriterpenoids from Schisandra lancifolia, 1975

Lanostane triterpenes

Artabotryols A-E, New Lanostane Triterpenes from the Seeds of Artabotrys odoratissimus, 1925

Lanthanum complexes

Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183

Laurencia composita

Sesquiterpenes and Other Metabolites from the Marine Red Alga Laurencia composita (Rhodomelaceae), 2281

Leonurus japonicus

Labdane Diterpenes and Flavonoids from Leonurus japonicus, 2045

Lespeol

New Synthetic Routes to Biologically Interesting Geranylated Flavanones and Geranylated Chalcones: First Total Synthesis of (±)-Prostratol F, Xanthoangelol, and (±)-Lespeol, 635

Lewis acids

Lewis Acids as Mild and Effective Catalysts for the Synthesis of 3,5-Bis[(hetero)arylidene]piperidin-4-ones, 1990

Lewis acid-surfactant combined catalysts (LASCs)

An Environmentally Benign Catalytic Method for Efficient and Selective Nucleophilic Ring Opening of Oxiranes by Zirconium Tetrakis(dodecyl Sulfate), 405

Liangshansines A-C

New Diterpenoid Alkaloids from *Aconitum liangshanicum*, 811 Liangshantine

Liangsnanting

New Diterpenoid Alkaloids from Aconitum liangshanicum, 811

Lignan glycosides

Phenolic Compounds from the Fresh Leaves of Eucalyptus maideni, 2194

Lignans

Litseaglutinan A and Lignans from Litsea glutinosa, 951

Anthraquinones and Lignans from Cassia occidentalis, 1795

Study on the Constituents of Roots of Aceriphyllum rossii, 1803

Ligularia species

Chemical and Genetic Study of Ligularia anoleuca and L. veitchiana in Yunnan and Sichuan Provinces of China, 1945

Eremophilane Sesquiterpenoids from Ligularia fischeri, 1983

Ligustrum lucidum

Secoiridoid Constituents from the Fruits of Ligustrum lucidum, 65

Limonoids

Three New Limonoids from the Leaves of Cipadessa cinerascens, 698

Lincosamine

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Lindlar's catalyst Total Synthesis of Nonenolide, 1422

Lipids

Oleanane Saponins and Glycerogalactolipids from the Leaves of Guapira graciliflora, 1058

Lipopeptides, cyclic

A New Antifungal Cyclic Lipopeptide from Bacillus marinus B-9987, 2419

Lipophilicity

Drug-Membrane Interaction on Immobilized Liposome Chromatography Compared to Immobilized Artificial Membrane (IAM), Liposome/Water, and Octan-1-ol/Water Systems, 203

O-2',3'-Ketal-Nucleolipids of the Cytostatic 5-Fluorouridine: Synthesis, Lipophilicity, and Acidic Stability, 1500

Lithium, 3-nitropropanoyl

Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90

Litsea glutinosa

Litseaglutinan A and Lignans from Litsea glutinosa, 951

Litseaglutinan A

Litseaglutinan A and Lignans from Litsea glutinosa, 951

Luminescence

Supramolecular Hydrogels Based on L-Phenylalanine Derivatives with a Positively Charged Terminal Group, 158

The Synthesis, Photophysical Characterization, and X-Ray Structure Analysis of Two Polymorphs of 4,4'-Diacetvlstilbene, 1162

Lycopodane-5,6-diol, (5β,6β,15α)-15-methyl-

Two New Lycopodine Alkaloids from Huperzia serrata, 1187

Lycopodine alkaloids

Two New Lycopodine Alkaloids from Huperzia serrata, 1187

A New Lycopodine Alkaloid from Phlegmariurus yunnanensis CHING, 1381

Lysozymes

Study of Lysozyme Glycation Reaction by Mass Spectrometry and NMR Spectroscopy, 991

Molecular Dynamics Simulation of Ester-Linked Hen Egg White Lysozyme Reveals the Effect of Missing Backbone Hydrogen Bond Donors on the Protein Structure, 1857

Macrocyclic lactones

Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocvclic Lactones, 175

Magnetic susceptibility

Synthesis and Characterization of Dendrimeric Bridged Salen/Saloph Complexes and Investigation of Their Magnetic and Thermal Behaviors, 910

Maireines A and B

Monoterpenoid Indole Alkaloids from Alstonia mairei, 2037

2552

Mairines A-C

Three New Monoterpene Alkaloids and a New Caffeic Acid Ester from Incarvillea mairei var. multifoliolata, 718

Maleic anhydride

Chemoselective and Regiospecific Synthesis of Iminospiro- γ -lactones from Maleic Anhydride or Citraconic Anhydride and Alkyl Isocyanides with Dialkyl Acetylenedicarboxylates, 757

L-Malic acid

Total Synthesis of Nonenolide, 1422

Total Synthesis of Aculeatins A and B from L-Malic Acid, 2426

Malononitrile

Efficient and Convenient Polyethylene Glycol (PEG)-Mediated Synthesis of Spiro-oxindoles, 648

Malononitrile, arylidene-

A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176

Manganese complexes

Pronounced Catalytic Activity of Manganese(III)-Schiff Base Complexes in the Oxidation of Alcohols by Tetrabutylammonium Peroxomonosulfate, 711

Mangroves

New Lactone and Xanthone Derivatives Produced by a Mangrove Endophytic Fungus *Phoma* sp. SK3RW1M from the South China Sea, 1369

Mannich reaction

A Novel Trypsin-Catalyzed Three-Component Mannich Reaction, 2231

Mappain

First Total Synthesis of Mappain with a Prenylated and Geranylated Stilbene, 829

Marihysin A

A New Antifungal Cyclic Lipopeptide from Bacillus marinus B-9987, 2419

Marine bacterium

Two New Indole Alkaloids from the Marine-Derived Bacterium Aeromonas sp. CB101, 791

Marine natural products

Synthesis of Pteroenone and Its Stereoisomers, a Defensive Metabolite of the Abducted Antarctic Pteropod *Clione antarctica*, 1933

Marrubium anisodon

Marrusidins A and B, New Epimeric Labdane Diterpenes from Marrubium anisodon, 1101

Marrusidins A and B

Marrusidins A and B, New Epimeric Labdane Diterpenes from *Marrubium anisodon*, 1101 *Marsdenia tenacissima*

Three New C₂₁ Steroidal Glycosides from the Stems of Marsdenia tenacissima, 2256

Mass spectrometry

Study of Lysozyme Glycation Reaction by Mass Spectrometry and NMR Spectroscopy, 991 Eleven New Triterpenes from *Eurycorymbus cavaleriei*, 2263

Mechanism

Rolf Huisgen's Profound Adventures in Chemistry, 1241

Melodinus henryi

A Novel Alkaloid from Melodinus henryi, 2030

Memory-enhancement activity

Biologically Active Iridoids from Hedyotis diffusa, 2488

Mentha haplocalyx

Two New Monoterpenes from Mentha haplocalyx BRIQ., 2495

Mercury(II) halides

Synthesis of New Phosphonium Ylides Containing Thiophene and Furan Rings and Study of Their Reaction with Mercury(II) Halides: Spectral and Structural Characterization, 1105

Metabolites

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

Synthesis of Pteroenone and Its Stereoisomers, a Defensive Metabolite of the Abducted Antarctic Pteropod *Clione antarctica*, 1933

Methanones, bis(3-acylazulen-1-yl)-

A New Method for the Synthesis of Nonsymmetrically Substituted Bis(azulen-1-yl) Ketones, 1568

Methanones, bis(3-acyl-4-methylazulen-1-yl)-

Report on an Unusual Cascade Reaction between Azulenes and 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone (=4,5-Dichloro-3,6-dioxocyclohexa-1,4-diene-1,2-dicarbonitrile; DDQ), 1545

Methylcatechin glycosides

Phenolic Compounds from the Fresh Leaves of Eucalyptus maideni, 2194

Mevinic acid

Total Synthesis of a Mevinic Acid Analog, 2158

Michael addition

Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90

Synthesis of Novel Spiropyrimidinones, 430

Micromolar hydrogen peroxide reaction system

Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and N-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System, 1227

Microwave-induced reactions

Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242

Microwave-Induced Stereocontrol of β -Lactam Formation with an N-Benzylidene-9,10-dihydrophenanthren-3-amine via Staudinger Cycloaddition, 298

Microwave-Assisted Synthesis of Novel 2,4-Dihydro-5-[4-(trifluoromethyl)phenyl]-3H-1,2,4-triazol-3-ones and Potentiometric Determination of Their pK_a in Nonaqueous Solvents, 1967

Novel Disubstituted Phenylene-Linked Bis-imidazole Derivatives: Facile Synthesis and Optical Properties, 2397

Microwave-Assisted Three-Component Synthesis of Some Novel 1-Alkyl-1H-indole-2,3-dione 3-(O-Alkyloxime) Derivatives as Potential Chemotherapeutic Agents, 2454

Mineralization

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the *Fenton* and Photo-*Fenton* Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H₂O₂ by O₂, 1067

Mitsunobu reaction

Synthesis of Carbocyclic Pyrimidine Nucleosides Using the *Mitsunobu* Reaction: O²- vs. N¹-Alkylation, 309 The Stereoselective Total Synthesis of (6S)-5,6-Dihydro-6-[(2R)-2-hydroxy-6-phenylhexyl]-2H-pyran-2-one via Prins Cyclization, 1432

Total Synthesis of a Mevinic Acid Analog, 2158

Molecular-dynamics simulations

The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an α -Heptapeptide: A Computational Study, 1513

Molecular Dynamics Simulation of Ester-Linked Hen Egg White Lysozyme Reveals the Effect of Missing Backbone Hydrogen Bond Donors on the Protein Structure, 1857

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870

Momordica charantia

Triterpenoids from the Stems of Momordica charantia, 1355

Monoterpene alkaloids

Two New Indole Alkaloids from Tabernaemontana hystrix STEUD. (Apocynaceae), 422

Three New Monoterpene Alkaloids and a New Caffeic Acid Ester from Incarvillea mairei var. multifoliolata, 718

Monoterpenes

A New Monoterpene-Coumarin and a New Monoterpene-Chromone from Gerbera delavayi, 2026

Monoterpenoids

Monoterpenoids from the Fruit of *Gardenia jasminoides*, 763 Monoterpenoid Indole Alkaloids from *Alstonia mairei*, 2037

Two New Monoterpenes from Mentha haplocalyx BRIQ., 2495

Morpholinamide

Total Synthesis of Aculeatins A and B from L-Malic Acid, 2426

Morpholine-2,5-diones, 3,3-dimethyl-

Synthesis and Crystal Structure of 3,3,6,6-Tetramethylmorpholine-2,5-dione, and Its 5-Monothioxo and 2,5-Dithioxo Derivatives, 2326

Morpholine-2,5-dithiones

Synthesis and Crystal Structure of 3,3,6,6-Tetramethylmorpholine-2,5-dione, and Its 5-Monothioxo and 2,5-Dithioxo Derivatives, 2326

Morpholin-2-ones, 5-thioxo-

Synthesis and Crystal Structure of 3,3,6,6-Tetramethylmorpholine-2,5-dione, and Its 5-Monothioxo and 2,5-Dithioxo Derivatives, 2326

Mugil cephalus

11- and 4'-Epimers of Chaetomugilin A, Novel Cytostatic Metabolites from Marine Fish-Derived Fungus Chaetomium globosum, 542

Multicomponent reactions

TiO₂ as a Reusable Catalyst for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones under Solvent-Free Conditions, 261

One-Pot Synthesis of Functionalized 3-Aryl-1-phenyl-1*H*-pyrazoles from Hydrazonoyl Chlorides and Acetylenic Esters in the Presence of Ph₃P, 277

- Synthesis of Novel Spiropyrimidinones, 430
- One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1*H*-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435

Efficient and Convenient Polyethylene Glycol (PEG)-Mediated Synthesis of Spiro-oxindoles, 648

- Chemoselective and Regiospecific Synthesis of Iminospiro-γ-lactones from Maleic Anhydride or Citraconic Anhydride and Alkyl Isocyanides with Dialkyl Acetylenedicarboxylates, 757
- A Novel and Efficient One-Pot Synthesis of 2-Aminopyrimidinones and Their Self-Assembly, 777
- The Baylis-Hillman Adducts as Valuable Source for One-Pot Multi-Step Synthesis: A Facile Synthesis of Substituted Piperidin-2-ones, 1180
- A One-Pot Biginelli Synthesis of 6-Unsubstituted 5-Aroylpyrimidin-2(1H)-ones and 6-Acetyl-1,2,4-triazin-3(2H)-ones, 1204
- A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221
- Multicomponent Reactions of Furan-2,3-diones: Synthesis and Characterizations of Furo[3,2-c]pyran-4-ones, 1336
- Phosphomolybdic Acid (PMA)–SiO₂ as a Heterogeneous Solid Acid Catalyst for the One-Pot Synthesis of 2*H*-Indazolo[1,2-*b*]phthalazine-triones, 1375
- One-Pot, Pseudo-Five-Component Synthesis of Bis[2-(arylimino)-1,3-thiazolidin-4-ones], 1401
- Synthesis of Functionalized Tetrahydro-4-oxoindeno[1,2-b]pyrroles from Ninhydrin, Acetylenedicarboxylates, and Primary Amines, 1413
- Regioselective Synthesis of 5-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-6-phenylsalicylates by One-Pot Cyclizations of 1,3-Bis(silyloxy)buta-1,3-dienes with 2-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-3-ethoxy-1-phenylprop-2-en-1-ones, 1610
- Potassium Thiocyanate-Promoted One-Pot Synthesis of (1,3-Diaryl-2,5-dioxoimidazolidin-4-ylidene)acetates from Aryl Isocyanates and Alkyl Propiolates. Short Communication, 1851
- Three-Component Reaction of an Isocyanide and a Dialkyl Acetylenedicarboxylate with a Phenacyl Halide in the Presence of Water: An Efficient Method for the One-Pot Synthesis of γ-Iminolactone Derivatives, 2033
- A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176
- A Novel Approach for the Synthesis of Furopyrimidine and Oxobenzofuran Derivatives, 2189
- Three-Component Reaction of Isocyanides and 2-Formylbenzoic Acid with Dibenzylamine Catalyzed by Silica Nanoparticles under Solvent-Free Conditions, 2203
- One-Pot Synthesis of Functionalized 2*H*-Chromene (=2*H*-1-Benzopyran) Derivatives *via* a Three-Component Reaction between a CH-Acid, a Dialkyl Acetylenedicarboxylate, and Methyl Chloroglyoxylate or Benzyl Carbonochloridate Mediated by Triphenylphosphine, 2218
- A Novel Trypsin-Catalyzed Three-Component Mannich Reaction, 2231

Novel Disubstituted Phenylene-Linked Bis-imidazole Derivatives: Facile Synthesis and Optical Properties, 2397

Microwave-Assisted Three-Component Synthesis of Some Novel 1-Alkyl-1H-indole-2,3-dione 3-(O-Alkyloxime) Derivatives as Potential Chemotherapeutic Agents, 2454

Nanoparticles

Three-Component Reaction of Isocyanides and 2-Formylbenzoic Acid with Dibenzylamine Catalyzed by Silica Nanoparticles under Solvent-Free Conditions, 2203

Naphthalenes, aryl-

Litseaglutinan A and Lignans from Litsea glutinosa, 951

1,7-Naphthyridines

Synthesis of 2,4,8-Trisubstituted 1,7-Naphthyridines by the Reaction of 4-(1-Aryl-2-methoxyethenyl)-3isocyanopyridines with Excess Organolithiums, 2086

Napthalen-1-amine, N-(2-aminoethyl)-

Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and N-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System, 1227

Natural products

Naturstoff-Strukturen hinterfragen, 1439

Negishi cross-coupling reaction

Synthesis of Racemic Δ^3 -2-Hydroxybakuchiol and Its Analogues, 555

Neobractatin

Three New Caged Prenylxanthones from Garcinia bracteata, 958

Neolignans

Neolignans from the Leaves of Casearia sylvestris SWARTZ, 139

Four New Lignan Glycosides from Osmanthus fragrans LOUR. var. aurantiacus MAKINO, 2164

Neolignans and Caffeoyl Derivatives from Selaginella moellendorffii, 2467

Neotuberostemonine

Two New Alkaloids from Stemona tuberosa, 133

Nervolans A-C

Three New Phenylpropanoids from Inula nervosa WALL., 1418

Ninhydrin

Synthesis of Functionalized Tetrahydro-4-oxoindeno[1,2-b]pyrroles from Ninhydrin, Acetylenedicarboxylates, and Primary Amines, 1413

Nitroxyl

Synthesis, Physical Properties, and Cytotoxicity of Nitroxyl-Aziridine Hybrid, 2109

NMR Spectroscopy

Study of Lysozyme Glycation Reaction by Mass Spectrometry and NMR Spectroscopy, 991

Nodulisporium sp. A4

A New Isofuranonaphthalenone and Benzopyrans from the Endophytic Fungus *Nodulisporium* sp. A4 from *Aquilaria sinensis*, 920

Nonenolides

Total Synthesis of Nonenolide, 1422

Norcadinane

New Sesquiterpenoids from Artemisia anomala, 2000

Nor-diterpenoid alkaloids

Four New Nor-Diterpenoid Alkaloids from Aconitum brachypodum, 863

Norlignans

Dihydrobenzofuran Norlignans from the Leaves of *Cedrela sinensis* A. JUSS, 272 Norlignans from Rhizomes of *Curculigo sinensis*, 724

Norneolignans

Catunaregin and Epicatunaregin, Two Norneolignans Possessing an Unprecedented Skeleton from Catunaregam spinosa, 339

Norpterosin B derivatives

Three New Illudalane Sequiterpenoids from Pteris semipinnata, 550

Norsesquiterpene alkaloids

New Guaipyridine Sesquiterpene Alkaloids from Artemisia rupestris L., 33

Nortriterpenes

A New Nortriterpene from the Root of Celastrus hypoleucus, 1628

Nortriterpenoids

Four New Nortriterpenoids from Schisandra lancifolia, 1975

Nuclear Overhauser effect (NOE)

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870

Nucleic acids

Naturstoff-Strukturen hinterfragen, 1439

Nucleolipids

O-2', 3'-Ketal-Nucleolipids of the Cytostatic 5-Fluorouridine: Synthesis, Lipophilicity, and Acidic Stability, 1500

Nucleosides

Synthesis of Carbocyclic Pyrimidine Nucleosides Using the Mitsunobu Reaction: O²- vs. N¹-Alkylation, 309 O-2',3'-Ketal-Nucleolipids of the Cytostatic 5-Fluorouridine: Synthesis, Lipophilicity, and Acidic Stability, 1500

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced syn-Conformation, 1822

Nucleotides. Part LXXVIII. Double Labeling of Nucleosides and Nucleotides, 2365

Nucleotides

Nucleotides. Part LXXVI. Synthesis and Properties of New Isoalloxazine (=Benzo[g]pteridine-2,4(1H,3H)dione) Derivatives as Labels for Oligonucleotides, 1038

Nucleotides. Part LXXVIII. Double Labeling of Nucleosides and Nucleotides, 2365

Oleanane saponins

Oleanane Saponins and Glycerogalactolipids from the Leaves of Guapira graciliflora, 1058 **Oleanane-type triterpenoids**

Study on the Constituents of Roots of Aceriphyllum rossii, 1803

Oleanazurosides 1 and 2

Four New Triterpenes from Anchusa azurea var. azurea, 457

Olefin cross-metathesis

Total Synthesis of (+)-Cryptocaryalactone and of a Diastereoisomer of (+)-Strictifolione via Ring-Closing Metathesis (RCM) and Olefin Cross-Metathesis (CM), 329

Olefin metathesis, ring-closing

Catalytic Performance of Ruthenium-Supported Ionic-Liquid Catalysts in Sustainable Synthesis of Macrocyclic Lactones, 175

Oligodeoxyribonucleotides

Nucleotides. Part LXXVI. Synthesis and Properties of New Isoalloxazine (=Benzo[g]pteridine-2,4(1H,3H)dione) Derivatives as Labels for Oligonucleotides, 1038

Oligonucleosides

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 25. Structural Effects on the Gelation of Self-Complementary A*[s]U Dinucleosides, 888

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced syn-Conformation, 1822

Oligonucleotides

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 25. Structural Effects on the Gelation of Self-Complementary A*[s]U Dinucleosides, 888

Nucleotides. Part LXXVI. Synthesis and Properties of New Isoalloxazine (=Benzo[g]pteridine-2,4(1H,3H)dione) Derivatives as Labels for Oligonucleotides, 1038

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced syn-Conformation, 1822

Nucleotides. Part LXXVIII. Double Labeling of Nucleosides and Nucleotides, 2365

Oligopeptides

The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an *a*-Heptapeptide: A Computational Study, 1513

Ophiopogon japonicus

Spirostanol Saponins from the Fibrous Roots of Ophiopogon japonicus (THUNB.) KER-GAWL, 227 Three New Homoisoflavanones from the Ophiopogon japonicus KER-GAWLER (Liliaceae), 980

Orcinol glucosides

Three New Dimeric Orcinol Glucosides from Curculigo orchioides, 504

Orcinosides A-C

Three New Dimeric Orcinol Glucosides from Curculigo orchioides, 504

Organocatalysis

Stereochemical Models for Discussing Additions to α , β -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives - Is There an '(E)/(Z)-Dilemma'?, 603

Organolithiums

Synthesis of 2,4,8-Trisubstituted 1,7-Naphthyridines by the Reaction of 4-(1-Aryl-2-methoxyethenyl)-3isocyanopyridines with Excess Organolithiums, 2086

Organoselenium compounds

Synthesis of 5-(Arylselanyl)-2-(arylsulfanyl)benzoates by [3+3] Cyclocondensation of 3-(Arylsulfanyl)-1-(silyloxy)buta-1,3-dienes with 2-(Arylselanyl)-3-(silyloxy)alk-2-en-1-ones, 1779

Organosulfur compounds

Synthesis of 5-(Arylselanyl)-2-(arylsulfanyl)benzoates by [3+3] Cyclocondensation of 3-(Arylsulfanyl)-1-(silyloxy)buta-1,3-dienes with 2-(Arylselanyl)-3-(silyloxy)alk-2-en-1-ones, 1779

Origin of life

Naturstoff-Strukturen hinterfragen, 1439

Oscillating reactions

Perturbations of an Acetone-Based Briggs-Rauscher System by a-Tocopherol (Vitamin E), 837 **Osmanthus** fragrans

Four New Lignan Glycosides from Osmanthus fragrans LOUR. var. aurantiacus MAKINO, 2164

Oxadiazoles

Synthesis and Characterization of New 7-Substituted 6,14-Ethenomorphinane Derivatives: $N-\{5-[(5\alpha,7\alpha)-4,5-(5\alpha,7\alpha)$ Epoxy-3,6-dimethoxy-17-methyl-6,14-ethenomorphinan-7-yl]-1,3,4-oxadiazol-2-yl]arenamines, 2406

1,2,3-Oxathiazolidines, 5-(trifluoromethyl)-

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

1,3,2-Oxazaphospholidines, 5-(trifluoromethyl)-

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

1,3-Oxazolidines, 5-(trifluoromethyl)-

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

Oxazolidinone auxiliaries

Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90

Oxidative degradation

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the Fenton and Photo-Fenton Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H2O2 by O2, 1067

Oxindole

Efficient and Convenient Polyethylene Glycol (PEG)-Mediated Synthesis of Spiro-oxindoles, 648

2559

Oxiranes

An Environmentally Benign Catalytic Method for Efficient and Selective Nucleophilic Ring Opening of Oxiranes by Zirconium Tetrakis(dodecyl Sulfate), 405

Oxobenzofuran derivatives

A Novel Approach for the Synthesis of Furopyrimidine and Oxobenzofuran Derivatives, 2189

Oxoisoaporphines

New Approaches to 6-Oxoisoaporphine and Tetrahydroisoquinoline Derivatives, 1385

Oxviodination

Peroxide/Potassium Iodide Redox Systems for in situ Oxyiodination of Organic Compounds under Liquid-Phase and Solvent-Free Conditions, 345

Oxy-Michael addition

Stereoselective Total Synthesis of Goniothalesdiol A via Chiron Approach, 1362

Ozonolysis

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Paeonia lactiflora

Structural Characterization of an Artefact and Simultaneous Quantification of Two Monoterpenes and Their Artefacts of Isolation in White-Peony Root, 565

Paeonia suffruticosa

Three New Paeonidanin-Type Monoterpene Glycosides from Paeonia suffruticosa ANDR., 1622 Paeonidanin-type monoterpene glycosides

Three New Paeonidanin-Type Monoterpene Glycosides from Paeonia suffruticosa ANDR., 1622 Pakisides A and B

New Glycosidic Constituents of Abutilon pakistanicum, 2245

Palladium catalysis

The Sonogashira Coupling of Polymer-Supported Propargylamine with Aryl Iodides, 39 Double Heck Cross-Coupling Reactions of Dibrominated Pyridines, 1764

Pancovia laurentii

New Sphingolipids and Other Constituents of Pancovia laurentii, 2210

Pancoviamide

New Sphingolipids and Other Constituents of Pancovia laurentii, 2210 Pancovioside

New Sphingolipids and Other Constituents of Pancovia laurentii, 2210

Pancreatic lipase inhibitors

Medicinal Flowers. Part 29. Acylated Oleanane-Type Triterpene Bisdesmosides: Perennisaponins G, H, I, J, K, L, and M with Pancreatic Lipase Inhibitory Activity from the Flowers of Bellis perennis, 573

Paracelsus

The 550th Anniversary of the Universität Basel, 1460-2010: Paracelsian Beginnings and Chemistry, 1661 Patuletin

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Penicillium citrinum HGY1-5

Two New Citrinin Dimers from a Volcano Ash-Derived Fungus, Penicillium citrinum HGY1-5, 2224 Penicillium griseofulvum

Three New Indole-Containing Diketopiperazine Alkaloids from a Deep-Ocean Sediment Derived Fungus Penicillium griseofulvum, 1758

Penicillium spp. HS-3

Diketopiperazine Alkaloids from Penicillium spp. HS-3, an Endophytic Fungus in Huperzia serrata, 772 Penidicitrinols A and B

Two New Citrinin Dimers from a Volcano Ash-Derived Fungus, Penicillium citrinum HGY1-5, 2224 Peony

Structural Characterization of an Artefact and Simultaneous Quantification of Two Monoterpenes and Their Artefacts of Isolation in White-Peony Root, 565

Peptides

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded a-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an *a*-Heptapeptide: A Computational Study, 1513

Stereoselective Synthesis of [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-D-valine]]- and [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-L-valine]cyclosporin A, 1583

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870

Perennisaponins G-M

Medicinal Flowers. Part 29. Acylated Oleanane-Type Triterpene Bisdesmosides: Perennisaponins G, H, I, J, K, L, and M with Pancreatic Lipase Inhibitory Activity from the Flowers of Bellis perennis, 573

Periploca sepium

A New Cardenolide and Two New Pregnane Glycosides from the Root Barks of Periploca sepium, 1602 Peroxidase-catalyzed coupling

Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and N-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System, 1227

Perylene

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313

Phenacyl halides

Three-Component Reaction of an Isocyanide and a Dialkyl Acetylenedicarboxylate with a Phenacyl Halide in the Presence of Water: An Efficient Method for the One-Pot Synthesis of γ -Iminolactone Derivatives, 2033

Phenanthrenes, 9,10-diphenyl-

Synthesis and Redox Behavior of Novel 9,10-Diphenylphenanthrenes, 1912

Phenolic acid

Two New Phenylpropanoid Glycosides from the Leaves and Flowers of Erica arborea, 77

Phenolic glycosides

Glycosidic Constituents of Celastrus orbiculatus, 1407

Phenols, bromo-

Total Synthesis of the Biologically Active, Naturally Occurring 3,4-Dibromo-5-[2-bromo-3,4-dihydroxy-6-(methoxymethyl)benzyl]benzene-1,2-diol and Regioselective O-Demethylation of Aryl Methyl Ethers, 1127

L-Phenylalanine

Supramolecular Hydrogels Based on L-Phenylalanine Derivatives with a Positively Charged Terminal Group, 158

Phenylpropanoids

Three New Phenylpropanoids from Inula nervosa WALL., 1418

Phlegmariurus vunnanensis

A New Lycopodine Alkaloid from Phlegmariurus yunnanensis CHING, 1381

Phlomis cashmeriana

Phlomisamide and Phlomisteriod: A New Ceramide and a New Stigmasterol Derivative from Phlomis cashmeriana, 1428

Phlomisamide

Phlomisamide and Phlomisteriod: A New Ceramide and a New Stigmasterol Derivative from Phlomis cashmeriana, 1428

Phlomisteriod

Phlomisamide and Phlomisteriod: A New Ceramide and a New Stigmasterol Derivative from Phlomis cashmeriana, 1428

Phoma species

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

New Lactone and Xanthone Derivatives Produced by a Mangrove Endophytic Fungus Phoma sp. SK3RW1M from the South China Sea, 1369

Phosphane ligands

A Study of the Reactivity of Secondary Phosphanes with Radical Sources: A New Dehydrocoupling Reaction, 1081

Phosphanes, secondary

A Study of the Reactivity of Secondary Phosphanes with Radical Sources: A New Dehydrocoupling Reaction, 1081

Phosphomolybdic acid

Phosphomolybdic Acid (PMA)–SiO₂ as a Heterogeneous Solid Acid Catalyst for the One-Pot Synthesis of 2*H*-Indazolo[1,2-*b*]phthalazine-triones, 1375

Phosphonium ylides

Synthesis of New Phosphonium Ylides Containing Thiophene and Furan Rings and Study of Their Reaction with Mercury(II) Halides: Spectral and Structural Characterization, 1105

Photoannelation reactions

Photoannelation Reactions of 3-(Alk-1-ynyl)cyclohept-2-en-1-ones, 17

Photocycloadditions

Photoannelation Reactions of 3-(Alk-1-ynyl)cyclohept-2-en-1-ones, 17

Photocycloaddition of Conjugated Cyclohex-2-enones to 2,3-Dimethylbuta-1,3-diene, 1052

Photo-Fenton process

Oxidative Degradation of 2,4-Dihydroxybenzoic Acid by the *Fenton* and Photo-*Fenton* Processes: Kinetics, Mechanisms, and Evidence for the Substitution of H₂O₂ by O₂, 1067

Photoluminescence

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 *Phyllanthus reticulatus*

Chemical Constituents of Phyllanthus reticulatus, 2276

Phytoquinoid epimers

Phytoquinoids and Secoprezizaane-Type Sesquiterpenes from Illicium arborescens, 123

Piepunine

Piepunine, A Novel Bis-diterpenoid Alkaloid from the Roots of Aconitum piepunense, 2251

Pinus yunnanensis Three New Terpenoids from Pinus yunnanensis, 490

Pinusyunnanol

Three New Terpenoids from Pinus yunnanensis, 490

Piperidines, 4-iodo-

Trimethylsilyl Iodide-Promoted Aza-Prins Cyclization for the Synthesis of 4-Iodopiperidines, 2023

Piperidin-2-ones

The Baylis-Hillman Adducts as Valuable Source for One-Pot Multi-Step Synthesis: A Facile Synthesis of Substituted Piperidin-2-ones, 1180

Piperidin-4-ones, 3,5-bis(heteroarylidene)-

Lewis Acids as Mild and Effective Catalysts for the Synthesis of 3,5-Bis[(hetero)arylidene]piperidin-4-ones, 1990

Piperidinoses, 1-deoxy-1-nitro-

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Piperidinosyl azides

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Piperidinosyl hydroxylamine

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Piperidinosyl nitrone

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Planchonella obovata

Three New Benzophenone Glucosides from the Leaves of Planchonella obovata, 522

Plectranthus sylvestris

The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-cis-Disubstituted Tetrahydro-2H-pyrans, 1281

Polydispersity

Controlled Ethylene Polymerization Catalyzed by $Cp_2^*ZrBu_2/[Ph_3C][B(C_6F_5)_4]^{/}Bu_4Al_2O$ above Room Temperature, 212

Polyene cyclization

Naturstoff-Strukturen hinterfragen, 1439

Polyethylene glycol

Efficient and Convenient Polyethylene Glycol (PEG)-Mediated Synthesis of Spiro-oxindoles, 648

Polyethylene, linear

 $\label{eq:controlled Ethylene Polymerization Catalyzed by Cp_2^*ZrBu_2/[Ph_3C][B(C_6F_5)_4]^{j}Bu_4Al_2O \ above \ Room \ Temperature, 212$

Polygonatum kingianum

Two New Steroidal Saponins from the Processed Polygonatum kingianum, 1086

Polyketides

Seven Novel Linear Polyketides from Xylaria sp. NCY2, 925

Polymerization

Controlled Ethylene Polymerization Catalyzed by $Cp_2^*ZrBu_2/[Ph_3C][B(C_6F_5)_4]/^Bu_4Al_2O$ above Room Temperature, 212

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 Polyol esters

oryor esters

Two New Sesquiterpene Polyol Esters from Celastrus angulatus, 1844

Potentiometry

Microwave-Assisted Synthesis of Novel 2,4-Dihydro-5-[4-(trifluoromethyl)phenyl]-3H-1,2,4-triazol-3-ones and Potentiometric Determination of Their p K_a in Nonaqueous Solvents, 1967

Prebiotic chemistry

Naturstoff-Strukturen hinterfragen, 1439

Pregnane glycosides

A New Cardenolide and Two New Pregnane Glycosides from the Root Barks of *Periploca sepium*, 1602 **Prenvlation**

Efficient Total Synthesis of Racemic Bisabolane Sesquiterpenes Curcuphenol and Xanthorrhizol Starting from Substituted Acetophenones, 1261

Presenegenin glycosides

Presenegenin Glycosides from Securidaca welwitschii, 2237

Prins cyclization

The Stereoselective Total Synthesis of (6S)-5,6-Dihydro-6-[(2R)-2-hydroxy-6-phenylhexyl]-2H-pyran-2-one via Prins Cyclization, 1432

Progesterone

Rolf Huisgen's Profound Adventures in Chemistry, 1241

Proliferins A - D

New Cytotoxic Myrsinane-Type Diterpenes from Euphorbia prolifera, 746

Prolinol derivatives, diaryl-

Stereochemical Models for Discussing Additions to *α*,β-Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives – Is There an '(E)/(Z)-Dilemma'?, 603

Propanoate, ethyl 3-bromo-2-oxo-

A Novel One-Pot Synthesis of Substituted Quinolines, 946

Propanoids

Two New Phenylpropanoid Glycosides from the Leaves and Flowers of Erica arborea, 77

Propargylamine

The Sonogashira Coupling of Polymer-Supported Propargylamine with Aryl Iodides, 39

Propiolate, alkyl

Potassium Thiocyanate-Promoted One-Pot Synthesis of (1,3-Diaryl-2,5-dioxoimidazolidin-4-ylidene)acetates from Aryl Isocyanates and Alkyl Propiolates. Short Communication, 1851

Propyn-1-amines, 3-aryl-substituted

The Sonogashira Coupling of Polymer-Supported Propargylamine with Aryl Iodides, 39

Prostratol F

New Synthetic Routes to Biologically Interesting Geranylated Flavanones and Geranylated Chalcones: First Total Synthesis of (±)-Prostratol F, Xanthoangelol, and (±)-Lespeol, 635

Proteins

Molecular Dynamics Simulation of Ester-Linked Hen Egg White Lysozyme Reveals the Effect of Missing Backbone Hydrogen Bond Donors on the Protein Structure, 1857

Psychotria calocarpa

A New Dimeric Alkaloid from the Leaf of Psychotria calocarpa, 1650

Psychotriasine

A New Dimeric Alkaloid from the Leaf of Psychotria calocarpa, 1650

Pteris semipinnata

Three New Illudalane Sequiterpenoids from Pteris semipinnata, 550

Pteroenone

Synthesis of Pteroenone and Its Stereoisomers, a Defensive Metabolite of the Abducted Antarctic Pteropod *Clione antarctica*, 1933

Pulicaria insignis

A Rarely Reported Trinorsesquiterpene-Type Structure in an Isolate from Pulicaria insignis, 1808

Pungencine

Cytotoxic Evaluation of Pungencine: A New Tropane Alkaloid from the Roots of *Erythroxylum pungens* O. E. SCHULZ, 1742

Purines

Purines. Part XVI. Syntheses, Properties, and Reactions of 8-Aminoxanthines, 2115

Chemical Constituents of Phyllanthus reticulatus, 2276

2H-Pyran-2-ones

The Stereoselective Total Synthesis of (6S)-5,6-Dihydro-6-[(2R)-2-hydroxy-6-phenylhexyl]-2H-pyran-2-one via Prins Cyclization, 1432

4H-Pyran-4-ones, 2,3-dihydro-

Cyclization vs. Elimination Reactions of 5-Aryl-5-hydroxy 1,3-Diones: One-Pot Synthesis of 2-Aryl-2,3dihydro-4H-pyran-4-ones, 1705

2H-Pyrans, tetrahydro-

The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-cis-Disubstituted Tetrahydro-2H-pyrans, 1281

The Biomimetic Synthesis and First Characterization of the (+)- and (-)-Isocentrolobines, 2,6-cis- and 2,6trans-Disubstituted Tetrahydro-2H-pyrans, 1299

Pyrazine linkers

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313

1H-Pyrazole, 3-aryl-1-phenyl-

One-Pot Synthesis of Functionalized 3-Aryl-1-phenyl-1*H*-pyrazoles from Hydrazonoyl Chlorides and Acetylenic Esters in the Presence of Ph₃P, 277

Pyridines

Double Heck Cross-Coupling Reactions of Dibrominated Pyridines, 1764

Pyridines, 3-amino-

Synthesis of 2,4,8-Trisubstituted 1,7-Naphthyridines by the Reaction of 4-(1-Aryl-2-methoxyethenyl)-3isocyanopyridines with Excess Organolithiums, 2086

Pyridines, 3-isocyano-

Synthesis of 2,4,8-Trisubstituted 1,7-Naphthyridines by the Reaction of 4-(1-Aryl-2-methoxyethenyl)-3isocyanopyridines with Excess Organolithiums, 2086

Pyridinium salts

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 **Pyrimidine-5-carbonitriles, 2-amino-4-aryl-1,6-dihydro-6-oxo-**

A Novel and Efficient One-Pot Synthesis of 2-Aminopyrimidinones and Their Self-Assembly, 777 **Pyrimidine-2,4(1H,3H)-dione, 6-imino-**

A Novel and Expedient Synthesis of 7-Pyrimidinylpyrimido[4,5-d]pyrimidinones, 153

Pyrimidinones, 2-amino-

A Novel and Efficient One-Pot Synthesis of 2-Aminopyrimidinones and Their Self-Assembly, 777

Pyrimidin-2(1H)-ones, aroyl-

A One-Pot Biginelli Synthesis of 6-Unsubstituted 5-Aroylpyrimidin-2(1H)-ones and 6-Acetyl-1,2,4-triazin-3(2H)-ones, 1204

Pyrimidin-2(1H)-ones, 3,4-dihydro-

 TiO_2 as a Reusable Catalyst for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1*H*)-ones under Solvent-Free Conditions, 261

Pyrimido[4,5-d]pyrimidinone derivatives, 7-pyrimidinyl-

A Novel and Expedient Synthesis of 7-Pyrimidinylpyrimido[4,5-d]pyrimidinones, 153

1H-Pyrrole-3-carbonitriles

Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242 Pyrroles

3,5-Dihydro-2H-thieno[2,3-c]pyrrole 1,1-Dioxide - A New Simple Pyrrole Unit. Preliminary Communication, 1192

Pyrrolo[3,2-b]pyridines

Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242

Pyruvate derivatives

Revisiting the Hinsberg Reaction: Facile and Expeditious Synthesis of 3-Substituted Quinoxalin-2(1H)-ones under Catalyst-Free Conditions in Water, 1216

Pyruvate, ethyl bromo-

A Novel One-Pot Synthesis of Substituted Quinolines, 946

Quantum-mechanical investigations

The Propensity of α -Aminoisobutyric Acid (=2-Methylalanine; Aib) to Induce Helical Secondary Structure in an *a*-Heptapeptide: A Computational Study, 1513

Quinoline derivatives

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Ouinolines

A Novel One-Pot Synthesis of Substituted Quinolines, 946

Ouinone reductase

Eleven New Triterpenes from Eurycorymbus cavaleriei, 2263

Quinoxalinones

Revisiting the Hinsberg Reaction: Facile and Expeditious Synthesis of 3-Substituted Quinoxalin-2(1H)-ones under Catalyst-Free Conditions in Water, 1216

Rabdosia lophanthoides var. gerardiana

Three New Diterpenoids from Rabdosia lophanthoides var. gerardiana, 450

Raddeanosides R₂₂ and R₂₃

Oleanane Saponins from Rhizome of Anemone raddeana, 58

Radicals

A Study of the Reactivity of Secondary Phosphanes with Radical Sources: A New Dehydrocoupling Reaction, 1081

Radical-scavenging activity

Four New Triterpenes from Anchusa azurea var. azurea, 457

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Three New Indole-Containing Diketopiperazine Alkaloids from a Deep-Ocean Sediment Derived Fungus Penicillium griseofulvum, 1758

Rare earth elements

Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183

Rate constant

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Rearrangements

Alternative Synthesis of 2-Hydroxy-3,5,5-trimethylcyclopent-2-en-1-one, 111

Reductamination

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced *syn*-Conformation, 1822

Regioselectivity

Peroxide/Potassium Iodide Redox Systems for *in situ* Oxyiodination of Organic Compounds under Liquid-Phase and Solvent-Free Conditions, 345

Regioselective Synthesis of 4-(Arylsulfanyl)-2-hydroxyhomophthalates by [4+2] Cycloaddition of 3-(Arylsulfanyl)-1-(trimethylsilyloxy)buta-1,3-dienes with Dimethyl Penta-2,3-dienedioate, 704

Regiospecific synthesis

A Novel and Regiospecific Synthesis of 1-Aryl-1*H*-benzotriazoles *via* Copper(I)-Catalyzed Intramolecular Cyclization Reaction, 1350

Rhodium catalyst

Hydroformylation of Oct-1-ene in Novel Ionic Liquid Crystals, 1653

A Novel 1-Glycosyl-1*H*-triazole-Based *P*,*N* Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

Rhodobacter capsulatus

An Improved Preparation of D-Glyceraldehyde 3-Phosphate and Its Use in the Synthesis of 1-Deoxy-Dxylulose 5-Phosphate, 1745

β-D-Ribonucleosides

O-2',3'-Ketal-Nucleolipids of the Cytostatic 5-Fluorouridine: Synthesis, Lipophilicity, and Acidic Stability, 1500

D-Ribose

Stereoselective Total Synthesis of Goniothalesdiol A via Chiron Approach, 1362

Ring opening

An Environmentally Benign Catalytic Method for Efficient and Selective Nucleophilic Ring Opening of Oxiranes by Zirconium Tetrakis(dodecyl Sulfate), 405

Ring-closing metathesis (RCM)

Total Synthesis of (+)-Cryptocaryalactone and of a Diastereoisomer of (+)-Strictifolione *via* Ring-Closing Metathesis (RCM) and Olefin Cross-Metathesis (CM), 329

Total Synthesis of Nonenolide, 1422

The Stereoselective Total Synthesis of (6S)-5,6-Dihydro-6-[(2R)-2-hydroxy-6-phenylhexyl]-2H-pyran-2-one via Prins Cyclization, 1432

Stereoselective Total Synthesis of Dodoneine, 1960

Ritter-type reactions

Copper-Catalyzed Ritter-Type Reaction of Unactivated Alkenes with Dichloramine-T, 233

Rubus corchorifolius

Additional ent-Kaurane Diterpenoids from Rubus corchorifolius L. f., 84

Rupestines A – D

New Guaipyridine Sesquiterpene Alkaloids from Artemisia rupestris L., 33

Ruthenium complexes

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313 Rutin

Labdane Diterpenes and Flavonoids from Leonurus japonicus, 2045

Rutinosides

Two New Phenylpropanoid Glycosides from the Leaves and Flowers of Erica arborea, 77

Ružička, Leopold

Naturstoff-Strukturen hinterfragen, 1439

Salicylaldehydes, O-acrylated-

Synthesis of Novel Polycyclic Indole-Annulated Thiopyranocoumarin Derivatives via Domino Knoevenagel-Hetero-Diels-Alder Reaction in Aqueous Media, 964

Salicylates, 5-(arylsulfanyl)-6-phenyl-

Regioselective Synthesis of 5-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-6-phenylsalicylates by One-Pot Cyclizations of 1,3-Bis(silyloxy)buta-1,3-dienes with 2-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-3-ethoxy-1-phenylprop-2-en-1-ones, 1610

Salsola oppostifolia

Two New Metabolites, Epoxydine A and B, from Phoma sp., 169

Salvia castanea

Interconvertible Eudesmanolides Containing a 6,12-Hemiketal Function from Salvia castanea DIELS f. tomentosa STIB., 1773

Saponins

Oleanane Saponins from Rhizome of Anemone raddeana, 58

Spirostanol Saponins from the Fibrous Roots of Ophiopogon japonicus (THUNB.) KER-GAWL, 227

- Medicinal Flowers. Part 29. Acylated Oleanane-Type Triterpene Bisdesmosides: Perennisaponins G, H, I, J, K,
 - L, and M with Pancreatic Lipase Inhibitory Activity from the Flowers of Bellis perennis, 573
- Two New Acylated Tridesmosidic Saponins from Astragalus armatus, 870

Oleanane Saponins and Glycerogalactolipids from the Leaves of Guapira graciliflora, 1058

Two New Steroidal Saponins from the Processed Polygonatum kingianum, 1086

Three New Triterpene Saponins from Gynostemma pentaphyllum, 1785

Pentacyclic Triterpenoid Saponins from Silene viscidula, 2007

Presenegenin Glycosides from Securidaca welwitschii, 2237

Schiff bases

Pronounced Catalytic Activity of Manganese(III)-Schiff Base Complexes in the Oxidation of Alcohols by Tetrabutylammonium Peroxomonosulfate, 711

Synthesis and Characterization of Dendrimeric Bridged Salen/Saloph Complexes and Investigation of Their Magnetic and Thermal Behaviors, 910

Schisandra lancifolia

Four New Nortriterpenoids from Schisandra lancifolia, 1975

Scutellarein

New Glycosidic Constituents of Abutilon pakistanicum, 2245

Secoiridiod glucosides

Secoiridoid Constituents from the Fruits of Ligustrum lucidum, 65

Secologanol derivatives

Three New Glycosides from Viburnum plicatum THUNB. var. tomentosum MIQ., 290

Secologanolic acid derivatives

Three New Glycosides from Viburnum plicatum THUNB. var. tomentosum MIQ., 290

Secondary structure

The Effect of Fluoro Substitution upon the β -Hairpin Fold of a β -Tetrapeptide in Methanol, 1870

Securidaca welwitschii

Presenegenin Glycosides from Securidaca welwitschii, 2237

Selaginella moellendorffii

Neolignans and Caffeoyl Derivatives from Selaginella moellendorffii, 2467

1,3-Selenazol-2(3H)-imines

Synthesis of 1,3-Selenazol-2(3H)-imines, 395

Selenoureas, N,N'-diaryl-

Synthesis of 1,3-Selenazol-2(3H)-imines, 395

Self-assembly

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded α-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

Semipterosin A

Three New Illudalane Sequiterpenoids from Pteris semipinnata, 550

Senecio argunensis

Sesquiterpenoids from Senecio argunensis, 2448

Serratene-type triterpenoids

A New Lycopodine Alkaloid from Phlegmariurus yunnanensis CHING, 1381

Seslignanoccidentaliols A and B

Anthraquinones and Lignans from Cassia occidentalis, 1795

Sesquilignans

Anthraquinones and Lignans from Cassia occidentalis, 1795

Sesquiterpene lactone esters

Sesquiterpene Lactones from Daucus glaber, 48

Sesquiterpene lactones

Phytoquinoids and Secoprezizaane-Type Sesquiterpenes from Illicium arborescens, 123

Two New Sesquiterpene Lactones and a Triterpene Glycoside from *Cichorium glandulosum*, 414 **Sesquiterpenes**

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral Cespitularia hypotentaculata, 281

Sesquiterpene and Aristolochic Acid Derivatives from Thottea hainanensis, 354

New Epoxy-Substituted Nitrogenous Bisabolene-Type Sesquiterpenes from a Hainan Sponge Axinyssa sp., 517

Two Novel $15(10 \rightarrow 1)$ Abeomuurolane Sesquiterpenes from Cosmos sulphureus, 753

Efficient Total Synthesis of Racemic Bisabolane Sesquiterpenes Curcuphenol and Xanthorrhizol Starting from Substituted Acetophenones, 1261

New Dihydroagarofuranoid Sesquiterpenes from Celastrus paniculatus, 1716

Two New Sesquiterpenes from the Fungus Stereum sp., 1737

A Rarely Reported Trinorsesquiterpene-Type Structure in an Isolate from Pulicaria insignis, 1808

Two New Sesquiterpene Polyol Esters from Celastrus angulatus, 1844

New Sesquiterpenes from the Flowers of Chrysanthemum indicum L., 1953

New Sesquiterpenoids from Artemisia anomala, 2000

Sesquiterpenes and Other Metabolites from the Marine Red Alga Laurencia composita (Rhodomelaceae), 2281

Sesquiterpenoids

Three New Illudalane Sequiterpenoids from Pteris semipinnata, 550

Diversity of Sesquiterpenoids from Carpesium cernuum, 595

Guaiane Sesquiterpenoids Isolated from the Fruits of Torilis japonica and Their Cytotoxic Activity, 692

Four New Terpenoids from Xylaria sp. 101, 796

Terpenoids from Roots of Chloranthus spicatus, 803

Two Novel Sesquiterpenoids from the Roots of Ferula ferulaeoides (STEUD.) KOROV., 1019

Three New Sesquiterpenoids from Echinops ritro L., 1344

Interconvertible Eudesmanolides Containing a 6,12-Hemiketal Function from *Salvia castanea* DIELS f. *tomentosa* STIB., 1773

Eremophilane Sesquiterpenoids from Ligularia fischeri, 1983

Pubescone, a Novel $11(7 \rightarrow 6)$ Abeo-14-norcarabrane Sesquiterpenoid from *Siegesbeckia pubescens*, 2081 Sesquiterpenoids from *Senecio argunensis*, 2448

Siegesbeckia pubescens

Pubescone, a Novel $11(7 \rightarrow 6)$ Abeo-14-norcarabrane Sesquiterpenoid from *Siegesbeckia pubescens*, 2081 *Silene viscidula*

Director Viscitutitu

Pentacyclic Triterpenoid Saponins from Silene viscidula, 2007

Silenoviscoside D

Pentacyclic Triterpenoid Saponins from Silene viscidula, 2007

Silica nanoparticles

Three-Component Reaction of Isocyanides and 2-Formylbenzoic Acid with Dibenzylamine Catalyzed by Silica Nanoparticles under Solvent-Free Conditions, 2203

Silver complexes

Eleven New Triterpenes from Eurycorymbus cavaleriei, 2263

Synthesis, Cytotoxicity and Antibacterial Studies of Novel Symmetrically and Nonsymmetrically 4-(Methoxycarbonyl)benzyl-Substituted N-Heterocyclic Carbene–Silver Acetate Complexes, 2347

Silver trifluoromethanesulfonate

In- and Out-of-Cavity Interactions by Modulating the Size of Ruthenium Metallarectangles, 1313

Silyl enol ethers

Regioselective Synthesis of 5-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-6-phenylsalicylates by One-Pot Cyclizations of 1,3-Bis(silyloxy)buta-1,3-dienes with 2-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-3-ethoxy-1-phenylprop-2-en-1-ones, 1610 Cyclization vs. Elimination Reactions of 5-Aryl-5-hydroxy 1,3-Diones: One-Pot Synthesis of 2-Aryl-2,3dihydro-4H-pyran-4-ones, 1705

Synthesis of 5-(Arylselanyl)-2-(arylsulfanyl)benzoates by [3+3] Cyclocondensation of 3-(Arylsulfanyl)-1-(silyloxy)buta-1,3-dienes with 2-(Arylselanyl)-3-(silyloxy)alk-2-en-1-ones, 1779

Sinensigenins A and B

Norlignans from Rhizomes of Curculigo sinensis, 724

Sinuladiterpenes G-I

New Cembrane Diterpenes from Taiwanese Soft Coral Sinularia flexibilis, 1329

Sinularia flexibilis

New Cembrane Diterpenes from Taiwanese Soft Coral Sinularia flexibilis, 1329

Sodium benzoylpaeoniflorin sulfonate

Structural Characterization of an Artefact and Simultaneous Quantification of Two Monoterpenes and Their Artefacts of Isolation in White-Peony Root, 565

Soft corals

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral Cespitularia hypotentaculata, 281

New Cembrane Diterpenes from Taiwanese Soft Coral Sinularia flexibilis, 1329

Solvent-free chemistry

 TiO_2 as a Reusable Catalyst for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1*H*)-ones under Solvent-Free Conditions, 261

Sonogashira coupling reaction

The Sonogashira Coupling of Polymer-Supported Propargylamine with Aryl Iodides, 39

Sororianolides A-C

Three New Diterpenoids from Euphorbia sororia L., 1156

Specific deuteration

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Sphingolipids

New Sphingolipids and Other Constituents of Pancovia laurentii, 2210

Spirocyclization

Total Synthesis of Aculeatins A and B from L-Malic Acid, 2426

Spiro-oxindole

Efficient and Convenient Polyethylene Glycol (PEG)-Mediated Synthesis of Spiro-oxindoles, 648

Spiropyrimidinones

Synthesis of Novel Spiropyrimidinones, 430

Sponges

New Epoxy-Substituted Nitrogenous Bisabolene-Type Sesquiterpenes from a Hainan Sponge Axinyssa sp., 517

Oxygenated 4-Methylidene Sterols from the South China Sea Sponge Theonella swinhoei, 1120

New Polyunsaturated Amino Ketones from a Guangxi Sponge Haliclona sp., 1199

Staudinger cycloaddition

Microwave-Induced Stereocontrol of β -Lactam Formation with an N-Benzylidene-9,10-dihydrophenanthren-3-amine via Staudinger Cycloaddition, 298

Staudinger reaction

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

Steglich esterification

Towards Carotenoid Dendrimers: Carotenoid Diesters and Triesters with Aromatic Cores, 1149

Stemona tuberosa

Two New Alkaloids from Stemona tuberosa, 133

Stereoselective reduction

Total Synthesis of Aculeatins A and B from L-Malic Acid, 2426

Stereoselective syntheses

- Microwave-Induced Stereocontrol of β -Lactam Formation with an N-Benzylidene-9,10-dihydrophenanthren-3-amine via Staudinger Cycloaddition, 298
- Stereochemical Models for Discussing Additions to α,β -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives Is There an '(E)/(Z)-Dilemma'?, 603

Stereoselective Total Synthesis of Goniothalesdiol A via Chiron Approach, 1362

Stereoselective Synthesis of [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-D-valine]]- and [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-L-valine]cyclosporin A, 1583

Enzyme-Catalyzed Stereoselective Synthesis of Two Novel Carbasugar Derivatives, 1882

- The Stereoselective Synthesis of 2-Aryl-2-hydroxybutanoic Acid via Menthyl Chiral Auxiliaries, 2015
- Stereoselective Synthesis, Characterization, and Antibacterial Activities of Novel Isosteviol Derivatives with D-Ring Modification, 2052

Stereum species

Two New Sesquiterpenes from the Fungus Stereum sp., 1737

Stereumins F and G

Two New Sesquiterpenes from the Fungus Stereum sp., 1737

Steroidal glycosides

Three New C₂₁ Steroidal Glycosides from the Stems of Marsdenia tenacissima, 2256

Steroidal saponins

Spirostanol Saponins from the Fibrous Roots of *Ophiopogon japonicus* (THUNB.) KER-GAWL, 227 Steroids

Steroius

New C₂₇ Steroidal Bisdesmosides from the Fresh Stems of *Dracaena cambodiana*, 302 New Steroids and a New Alkaloid from the Gorgonian *Isis minorbrachyblasta:* Structures, Cytotoxicity, and Antilarval Activity, 511

Two New Steroidal Saponins from the Processed Polygonatum kingianum, 1086

Phlomisamide and Phlomisteriod: A New Ceramide and a New Stigmasterol Derivative from *Phlomis* cashmeriana, 1428

Sterols, 4-methylidene-

Oxygenated 4-Methylidene Sterols from the South China Sea Sponge Theonella swinhoei, 1120

Stilbene

First Total Synthesis of Mappain with a Prenylated and Geranylated Stilbene, 829

Stilbene, 4,4'-diacetyl-

The Synthesis, Photophysical Characterization, and X-Ray Structure Analysis of Two Polymorphs of 4,4'-Diacetylstilbene, 1162

Strictifolione

Total Synthesis of (+)-Cryptocaryalactone and of a Diastereoisomer of (+)-Strictifolione *via* Ring-Closing Metathesis (RCM) and Olefin Cross-Metathesis (CM), 329

Structure-activity relationship (SAR)

Specific Deuteration in Patuletin and Related Flavonoids via Keto-Enol Tautomerism: Solvent- and Temperature-Dependent ¹H-NMR Studies, 466

Suffrupaeonidanins A-C

Three New Paeonidanin-Type Monoterpene Glycosides from Paeonia suffruticosa ANDR., 1622

Sulfonamides, aryl-

A Facile and Efficient Synthesis of Arylsulfonamido-Substituted 1,5-Benzodiazepines and N-[2-(3-Benzoylthioureido)aryl]-3-oxobutanamide Derivatives, 1221

Sulfones

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Sulfoxides, diastereoisomeric

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Sulfur

Regioselective Synthesis of 4-(Arylsulfanyl)-2-hydroxyhomophthalates by [4+2] Cycloaddition of 3-(Arylsulfanyl)-1-(trimethylsilyloxy)buta-1,3-dienes with Dimethyl Penta-2,3-dienedioate, 704

2570

Sultines

Synthesis and Characterization of a Novel Diels-Alder Adduct of Codeine, 220

Supramolecular catalysis

An Improved Protocol for the Synthesis of Quinoline-2,3-dicarboxylates under Neutral Conditions via Biomimetic Approach, 257

Swern oxidation

Alternative Synthesis of 2-Hydroxy-3,5,5-trimethylcyclopent-2-en-1-one, 111

Tabernaemontana hystrix

Two New Indole Alkaloids from Tabernaemontana hystrix STEUD. (Apocynaceae), 422 Tacrine Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242 Takai's reagent Formation of 6-Methyl-7,11-diphenylheptaleno[1,2-c]furanones, 934 Takai-Utimoto reaction Synthesis of Racemic A3-2-Hydroxybakuchiol and Its Analogues, 555 **Tanacetamide D** Tanacetamide D: A New Ceramide from Tanacetum artemisioides, 350 Tanacetum artemisioides Tanacetamide D: A New Ceramide from Tanacetum artemisioides, 350 Tartrate, dialkyl A Convenient Approach to C2-Chiral 1,1,4,4-Tetrasubstituted Butanetetraols: Direct Alkylation or Arylation of Enantiomerically Pure Diethyl Tartrates, 497 Tebbe's reagent Formation of 6-Methyl-7,11-diphenylheptaleno[1,2-c]furanones, 934 Terpenes Naturstoff-Strukturen hinterfragen, 1439 **Terpenic glycosides** Glycosidic Constituents of Celastrus orbiculatus, 1407 Terpenoids Terpenoids from Croton regelianus, 375 Terpenoids from Roots of Chloranthus spicatus, 803 Tetrabutylammonium Oxone® Pronounced Catalytic Activity of Manganese(III)-Schiff Base Complexes in the Oxidation of Alcohols by Tetrabutylammonium Peroxomonosulfate, 711 Tetrahydrocrinipellin B Four Novel Diterpenoids from Crinipellis sp. 113, 2151 Tetrahydrofuranoid lignans Study on the Constituents of Roots of Aceriphyllum rossii, 1803 *α*-Tetralone galloylglucosides New a-Tetralone Galloylglucosides from the Fresh Pericarps of Juglans sigillata, 265 Tetranortriterpenoids, trijugin-type Three New Limonoids from the Leaves of Cipadessa cinerascens, 698 **Tetrazole azide** Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183 Tetrazole, 5-azido-Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183 Tetrazolvlazide Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183 Thebaine Synthesis and Characterization of New 7-Substituted 6,14-Ethenomorphinane Derivatives: N-{5-[(5a,7a)-4,5-Epoxy-3,6-dimethoxy-17-methyl-6,14-ethenomorphinan-7-yl]-1,3,4-oxadiazol-2-yl]arenamines, 2406

Theonella swinhoei

Oxygenated 4-Methylidene Sterols from the South China Sea Sponge Theonella swinhoei, 1120

Thermodynamic integration simulations

a-Cyclodextrin Host–Guest Binding: A Computational Study of the Different Driving Forces, 2318 **Thermotropic ionic liquid**

Hydroformylation of Oct-1-ene in Novel Ionic Liquid Crystals, 1653

1,3-Thiazolidin-4-ones

One-Pot, Pseudo-Five-Component Synthesis of Bis[2-(arylimino)-1,3-thiazolidin-4-ones], 1401

Thieno[2,3-c]pyrrole 1,1-dioxide, 3,5-dihydro-2H-

3,5-Dihydro-2*H*-thieno[2,3-*c*]pyrrole 1,1-Dioxide – A New Simple Pyrrole Unit. Preliminary Communication, 1192

Thiocyanate

A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176

Thioketones

Tri- and Tetrasubstituted N-Phthalimidoaziridines in 1,3-Dipolar Cycloaddition Reactions, 847

Thiophene, 4-aryl-5-cyano-

A Three-Component One-Pot Synthesis of Functionalized 5,5-Dicyanocyclopenta-1,3-dienes from Arylidenemalononitriles, Activated Acetylenes, and KCN or KSCN, 2176

Thiophenes

Synthesis of New Phosphonium Ylides Containing Thiophene and Furan Rings and Study of Their Reaction with Mercury(II) Halides: Spectral and Structural Characterization, 1105

Efficient Total Synthesis of Racemic Bisabolane Sesquiterpenes Curcuphenol and Xanthorrhizol Starting from Substituted Acetophenones, 1261

Thiopyranocoumarin

Synthesis of Novel Polycyclic Indole-Annulated Thiopyranocoumarin Derivatives via Domino Knoevenagel– Hetero-Diels-Alder Reaction in Aqueous Media, 964

Thiourea, 1-(4,5-diphenylpyrimidin-2-yl)-

One-Step Synthesis of 1-(4,5-Diphenylpyrimidin-2-yl)thiourea, 1641

Thorpe–Ziegler cyclization

Synthesis of New Tacrine Analogues from 4-Amino-1H-pyrrole-3-carbonitrile, 242

Thottea hainanensis

Sesquiterpene and Aristolochic Acid Derivatives from Thottea hainanensis, 354

Thotteodiol

Sesquiterpene and Aristolochic Acid Derivatives from Thottea hainanensis, 354

α -Tocopherol

Perturbations of an Acetone-Based Briggs-Rauscher System by α-Tocopherol (Vitamin E), 837

Torilis japonica

Guaiane Sesquiterpenoids Isolated from the Fruits of Torilis japonica and Their Cytotoxic Activity, 692

Tosylamide

Towards the Synthesis of 1-Deoxy-1-nitropiperidinoses, 2297

Tosylmethyl isocyanide

3,5-Dihydro-2*H*-thieno[2,3-*c*]pyrrole 1,1-Dioxide – A New Simple Pyrrole Unit. Preliminary Communication, 1192

Transcarbamation

Benzyl N-[(Benzyloxy)methyl]carbamate: An Improved Aminomethylation Electrophile for the Synthesis of (Benzyloxy)carbonyl (Cbz)-Protected Chiral β^2 -Amino Acids, 314

Trewia nudiflora

Two New 7-Dehydrobrefeldin A Acids from *Cylindrocarpon obtusisporum*, an Endophytic Fungus of *Trewia* nudiflora, 324

Triazene

The Synthesis, Photophysical Characterization, and X-Ray Structure Analysis of Two Polymorphs of 4,4'-Diacetylstilbene, 1162

1,2,4-Triazin-3(2H)-ones, 6-acetyl-

A One-Pot Biginelli Synthesis of 6-Unsubstituted 5-Aroylpyrimidin-2(1H)-ones and 6-Acetyl-1,2,4-triazin-3(2H)-ones, 1204

Triazole, glycosyl-

A Novel 1-Glycosyl-1H-triazole-Based P,N Ligand for Rhodium-Catalyzed Asymmetric Hydrosilylation of Ketones, 2433

1H-1,2,3-Triazoles, 1-(2-hydroxyethyl)-

One-Pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1H-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water, 435

3H-1,2,4-Triazol-3-ones, 2,4-dihydro-

Microwave-Assisted Synthesis of Novel 2,4-Dihydro-5-[4-(trifluoromethyl)phenyl]-3H-1,2,4-triazol-3-ones and Potentiometric Determination of Their pKa in Nonaqueous Solvents, 1967

Trichocarpinine

Trichocarpinine, a Novel Hetidine-Hetisine Type Bisditerpenoid Alkaloid from Aconitum tanguticum var. trichocarpum, 118

Tridesmosidic saponins

Two New Acylated Tridesmosidic Saponins from Astragalus armatus, 870

Trifluoromethyl heterocycles

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

Trimethylsilylation

H₃IO₆/KI: A New Combination Reagent for Iodination of Aromatic Amines, and Trimethylsilylation of Alcohols and Phenols through in situ Generation of Iodine under Mild Conditions, 587

Trimethylsulfoxonium iodide

A Convenient Synthesis of 2,3-Dihydro-3-methylidene-1H-isoindol-1-ones by Reaction of 2-Formylbenzonitriles with Dimethyloxosulfonium Methylide, 1048

A Rarely Reported Trinorsesquiterpene-Type Structure in an Isolate from Pulicaria insignis, 1808

Triphenylphosphane

Trinorsesquiterpenes

One-Pot Synthesis of Functionalized 3-Aryl-1-phenyl-1H-pyrazoles from Hydrazonoyl Chlorides and Acetylenic Esters in the Presence of Ph₃P, 277

Triterpene glycosides

Four New Triterpenes from Anchusa azurea var. azurea, 457

Triterpenes

New Pentacyclic Cucurbitane Glucosides from the Fruits of Citrullus colocynthis SCHRAD., 1012

Triterpenoids from the Stems of Momordica charantia, 1355

A New Lycopodine Alkaloid from Phlegmariurus yunnanensis CHING, 1381

New Coumarins and Triterpenes from Calophyllum inophyllum, 1812

Artabotryols A-E, New Lanostane Triterpenes from the Seeds of Artabotrys odoratissimus, 1925

Triterpenoid saponins

Oleanane Saponins from Rhizome of Anemone raddeana, 58

New Triterpenoid Saponins from the Roots of Gypsophila paniculata L., 361

Medicinal Flowers. Part 29. Acylated Oleanane-Type Triterpene Bisdesmosides: Perennisaponins G, H, I, J, K,

L, and M with Pancreatic Lipase Inhibitory Activity from the Flowers of Bellis perennis, 573

Three New Triterpene Saponins from Gynostemma pentaphyllum, 1785

Triterpenoids

Three New Terpenoids from Pinus yunnanensis, 490

Study on the Constituents of Roots of Aceriphyllum rossii, 1803

Pentacyclic Triterpenoid Saponins from Silene viscidula, 2007

Triterpenoids and Iridoid Glycosides from Gentiana dahurica, 2439

Tropane alkaloids

Cytotoxic Evaluation of Pungencine: A New Tropane Alkaloid from the Roots of Erythroxylum pungens O. E. SCHULZ, 1742

Tryhistatin

Diketopiperazine Alkaloids from Penicillium spp. HS-3, an Endophytic Fungus in Huperzia serrata, 772 Trypsin

A Novel Trypsin-Catalyzed Three-Component Mannich Reaction, 2231

Tryptamine, N-methyl-

A New Dimeric Alkaloid from the Leaf of Psychotria calocarpa, 1650

Tuberostemoninols A and B

Two New Alkaloids from Stemona tuberosa, 133

Umpolung

Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries, 90

University of Basel

The 550th Anniversary of the Universität Basel, 1460–2010: Paracelsian Beginnings and Chemistry, 1661 Uracil, 6-amino-

A Novel and Expedient Synthesis of 7-Pyrimidinylpyrimido[4,5-d]pyrimidinones, 153

Uridine

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 26. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides with Enforced *syn*-Conformation, 1822

Uridine derivatives

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 23. Conformational Analysis and Association of Sulfonyl- and Sulfinylmethylene Adenosine and Uridine Dinucleosides, 659

Oligonucleotide Analogues with Integrated Bases and Backbones. Part 24. Synthesis, Conformational Analysis, and Association of Aminomethylene-Linked Self-Complementary Adenosine and Uridine Dinucleosides, 668

Uridine, 5-fluoro-

O-2',3'-Ketal-Nucleolipids of the Cytostatic 5-Fluorouridine: Synthesis, Lipophilicity, and Acidic Stability, 1500

Ursolazurosides 1 and 2

Four New Triterpenes from Anchusa azurea var. azurea, 457

Ursolic acids

Two New Disulfated Triterpenoids from Zygophyllum fabago, 2070

Variecolorins M-O

Three New Indole-Containing Diketopiperazine Alkaloids from a Deep-Ocean Sediment Derived Fungus Penicillium griseofulvum, 1758

Verticillane-type diterpenoids

Verticillane-Type Diterpenoids and an Eudesmanolide-Type Sesquiterpene from the Formosan Soft Coral Cespitularia hypotentaculata, 281

Verticillatines A and B

New Chemical Constituents from Borreria verticillata (Rubiaceae), 1751

Viburnum plicatum

Three New Glycosides from Viburnum plicatum THUNB. var. tomentosum MIQ., 290

Vila A – D

Isolation and Characterization of Bioactive Cyclotides from Viola labridorica, 2287

Viola labridorica

Isolation and Characterization of Bioactive Cyclotides from Viola labridorica, 2287

Viologen

Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups, 819 Viscidulosides A and B

Pentacyclic Triterpenoid Saponins from Silene viscidula, 2007

Vitamin B₁₂ synthesis

Naturstoff-Strukturen hinterfragen, 1439

Vitamin E

Perturbations of an Acetone-Based Briggs-Rauscher System by a-Tocopherol (Vitamin E), 837

Withania coagulans

Coagulansins A and B, New Withanolides from Withania coagulans DUNAL, 530

Withanolides

Coagulansins A and B, New Withanolides from Withania coagulans $\mathsf{D}_{\mathsf{UNAL}},\,530$

Withanolides from Aureliana fasciculata var. fasciculata, 2478

Wittig reaction

One-Pot Synthesis of Functionalized 2*H*-Chromene (=2*H*-1-Benzopyran) Derivatives *via* a Three-Component Reaction between a CH-Acid, a Dialkyl Acetylenedicarboxylate, and Methyl Chloroglyoxylate or Benzyl Carbonochloridate Mediated by Triphenylphosphine, 2218

Xanthines, 8-amino-

Purines. Part XVI. Syntheses, Properties, and Reactions of 8-Aminoxanthines, 2115

Xanthoangelol

New Synthetic Routes to Biologically Interesting Geranylated Flavanones and Geranylated Chalcones: First Total Synthesis of (±)-Prostratol F, Xanthoangelol, and (±)-Lespeol, 635

Xanthones

Correction of a Reported Xanthone Synthesis: The Preparation of a Benzo[c]coumarin, 389

New Lactone and Xanthone Derivatives Produced by a Mangrove Endophytic Fungus *Phoma* sp. SK3RW1M from the South China Sea, 1369

Xanthones, prenyl-

Three New Caged Prenylxanthones from Garcinia bracteata, 958

Xanthonoids

A Highly Rearranged Pentaprenylxanthonoid from the Resin of Garcinia hanburyi, 1395

Xanthorrhizol

Efficient Total Synthesis of Racemic Bisabolane Sesquiterpenes Curcuphenol and Xanthorrhizol Starting from Substituted Acetophenones, 1261

X-Ray crystallography

Conformational Studies of (±)-11,12-Didehydro-11-deoxycorynoline and (+)-11,13-Didehydro-11-deoxychelidonine, Hexahydrobenzo[c]phenanthridine-Type Alkaloid Derivatives, by X-Ray Crystal Structure and NMR Analyses, 25

Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary, 183

Correction of a Reported Xanthone Synthesis: The Preparation of a Benzo[c]coumarin, 389

Synthesis of 1,3-Selenazol-2(3H)-imines, 395

Stereochemical Models for Discussing Additions to $\alpha\beta$ -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives – Is There an '(E)/(Z)-Dilemma'?, 603

Synthesis of 1-Methyl-6,10-diphenylheptalene Derivatives, 729

Monoterpenoids from the Fruit of Gardenia jasminoides, 763

A Novel and Efficient One-Pot Synthesis of 2-Aminopyrimidinones and Their Self-Assembly, 777

Tri- and Tetrasubstituted N-Phthalimidoaziridines in 1,3-Dipolar Cycloaddition Reactions, 847

Amyloid-Like Fibrillogenesis through Supramolecular Helix-Mediated Self-Assembly of Tetrapeptides Containing Non-Coded α-Aminoisobutyric Acid (Aib) and 3-Aminobenzoic Acid (m-ABA), 1025

Reaction of Hydantoin with Boronic Acids, 1093

Synthesis of New Phosphonium Ylides Containing Thiophene and Furan Rings and Study of Their Reaction with Mercury(II) Halides: Spectral and Structural Characterization, 1105

The Synthesis, Photophysical Characterization, and X-Ray Structure Analysis of Two Polymorphs of 4,4'-Diacetylstilbene, 1162

The Baylis-Hillman Adducts as Valuable Source for One-Pot Multi-Step Synthesis: A Facile Synthesis of Substituted Piperidin-2-ones, 1180

3,5-Dihydro-2*H*-thieno[2,3-*c*]pyrrole 1,1-Dioxide – A New Simple Pyrrole Unit. Preliminary Communication, 1192

Two New Daphniphyllum Alkaloids from Daphniphyllum calycinum, 1209

The Biomimetic Synthesis and Final Structure Determination of (+)- and (-)-Centrolobine, Naturally Occurring Diarylheptanoid 2,6-*cis*-Disubstituted Tetrahydro-2*H*-pyrans, 1281

The Biomimetic Synthesis and First Characterization of the (+)- and (-)-Isocentrolobines, 2,6-*cis*- and 2,6*trans*-Disubstituted Tetrahydro-2*H*-pyrans, 1299

Stereoselective Synthesis of [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-D-valine]]- and [5-[4,4,4,4',4',4'-Hexafluoro-N-(2-hydroxyethoxy)-L-valine]cyclosporin A, 1583

Regioselective Synthesis of 5-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-6-phenylsalicylates by One-Pot Cyclizations of 1,3-Bis(silyloxy)buta-1,3-dienes with 2-(Arylsulfanyl)- and 5-(Benzylsulfanyl)-3-ethoxy-1-phenylprop-2-en-1-ones, 1610

Synthesis of Three-, Five-, and Six-Membered Heterocycles Derived from New β -Amino- α -(trifluoromethyl) Alcohols, 1725

Enzyme-Catalyzed Stereoselective Synthesis of Two Novel Carbasugar Derivatives, 1882

Synthesis and Crystal Structure of 3,3,6,6-Tetramethylmorpholine-2,5-dione, and Its 5-Monothioxo and 2,5-Dithioxo Derivatives, 2326

Xylaranic acid

Four New Terpenoids from Xylaria sp. 101, 796

Xylaranols A and B

Four New Terpenoids from Xylaria sp. 101, 796 Xylarenolide

Four New Terpenoids from Xylaria sp. 101, 796

Xylaria species

Four New Terpenoids from Xylaria sp. 101, 796

Seven Novel Linear Polyketides from Xylaria sp. NCY2, 925

Xvlariates A and C

Seven Novel Linear Polyketides from Xylaria sp. NCY2, 925 Xylarioic acid B

Seven Novel Linear Polyketides from Xylaria sp. NCY2, 925 Xylariolides A-D

Seven Novel Linear Polyketides from Xylaria sp. NCY2, 925

Ylides

Synthesis of New Phosphonium Ylides Containing Thiophene and Furan Rings and Study of Their Reaction with Mercury(II) Halides: Spectral and Structural Characterization, 1105

Yunnandaphnine D, 2-hydroxy-

Two New Daphniphyllum Alkaloids from Daphniphyllum calycinum, 1209

Zirconium complexes

An Environmentally Benign Catalytic Method for Efficient and Selective Nucleophilic Ring Opening of Oxiranes by Zirconium Tetrakis(dodecyl Sulfate), 405

Zirconocene complexes

Controlled Ethylene Polymerization Catalyzed by Cp2ZrBu2/[Ph3C][B(C6F5)4]/Bu4Al2O above Room Temperature, 212

Zygophyllum fabago

Two New Disulfated Triterpenoids from Zygophyllum fabago, 2070