

JOURNAL OF THE CHEMICAL SOCIETY

## Chemical Communications

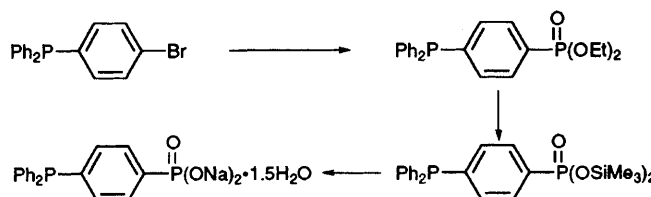
Number 15

1995

## CONTENTS

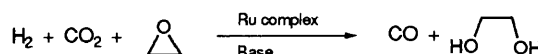
- 1487 **The First Examples of an Aryl Ring Substituted by Both Phosphine and Phosphonate Moieties: Synthesis and Characterization of the New Highly Water-soluble Phosphine Ligand  $\text{Na}_2[\text{Ph}_2\text{P}(\text{C}_6\text{H}_4\text{-}p\text{-PO}_3)] \cdot 1.5\text{H}_2\text{O}$  and Platinum(II) Complexes**

Terence L. Schull, James C. Fettinger, D. Andrew Knight



- 1489 **Ethylene Oxide-mediated Reduction of  $\text{CO}_2$  to CO and Ethylene Glycol catalysed by Ruthenium Complexes**

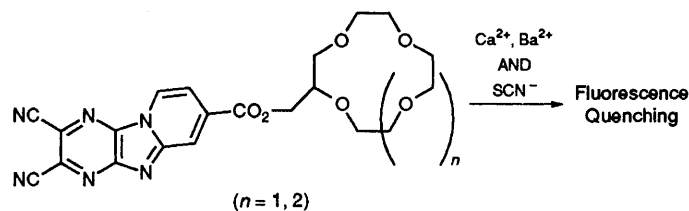
Ken-ichi Tominaga, Yoshiyuki Sasaki, Taiki Watanabe, Masahiro Saito



High  $\text{CO}_2$  conversion and efficient formation of CO and ethylene glycol are attained by the use of Ru complexes.

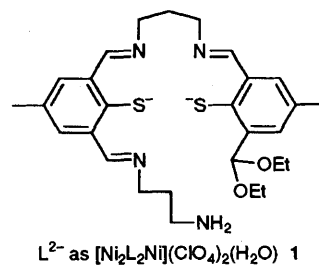
- 1491 **A Novel Cation 'AND' Anion Recognition Host Having Pyrido[1',2':1,2]imidazo[4,5-*b*]pyrazine as the Fluorophore**

Satoru Iwata, Kiyoshi Tanaka

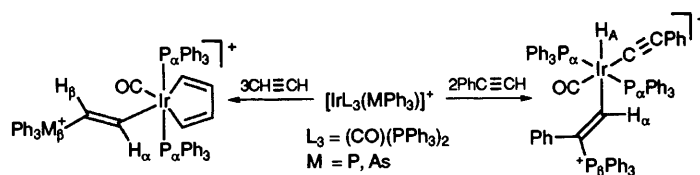


- 1493 **Trinickel(II) Complex of an Acyclic Thiophenolate Ligand: the X-Ray Crystal Structure of  $[\text{Ni}_2\text{L}_2\text{Ni}](\text{ClO}_4)_2(\text{H}_2\text{O})$  Reveals Alternating Square-planar and Octahedral Nickel Ions**

Sally Brooker, Paul D. Croucher

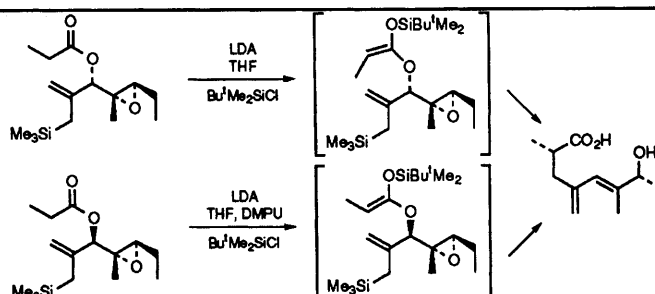


- 1495 **Facile Insertion of Alkynes into Ir–P (Phosphine) and Ir–As (Arsine) Bonds: Second and Third Alkyne Addition to Mononuclear Iridium Complexes**



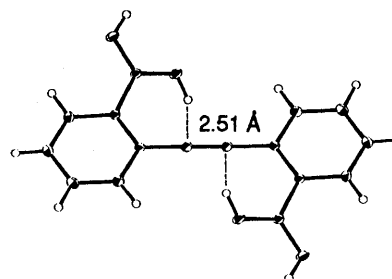
Chong Shik Chin, Yongchul Park, Jinkyung Kim, Byeongno Lee

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



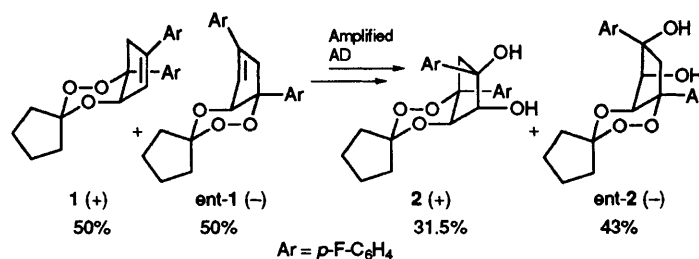
James J. Eshelby, Philip J. Parsons, Nan C. Sillars, Patrick J. Crowley

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



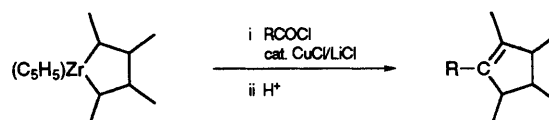
Melanie Pilkington, John D. Wallis, Sine Larsen

- 1501 **Amplified Asymmetric Dihydroxylation of a Racemic Cyclopentene**



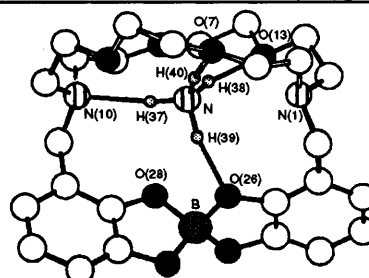
Charles W. Jefford, Géza Timári

- 1503 **Formation of a Five-membered Carbocyclic Ring by Reaction of Zirconacyclopentane with RCOCl (R = Ph, Pr<sup>i</sup>, Et)**



Tamotsu Takahashi, Martin Kotora, Zhenfeng Xi

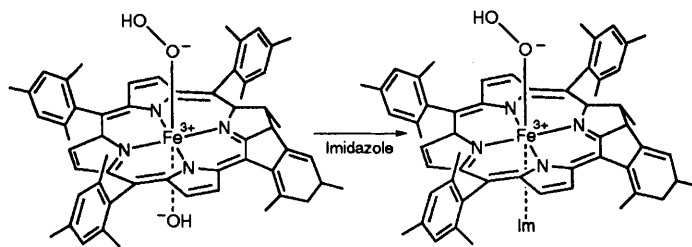
- 1505 **Simultaneous Binding of Boron and Ammonium Cation by a Pseudocryptand: Synthesis, X-Ray Analysis and Solution Studies by NMR Spectroscopy**



Ernest Graf, Mir Wais Hosseini, Romain Ruppert, André De Cian, Jean Fischer

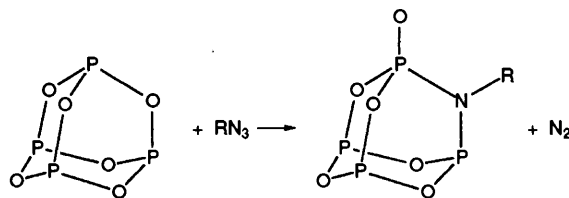
1507 **Optical Absorption and EPR Studies on a Six-coordinate Iron(III)-tetramesitylporphyrin-Hydrogen Peroxide Complex Having a Nitrogenous Axial Ligand**

Kunihiko Tajima, Shigenori Oka, Takeshi Edo, Sanae Miyake, Hirotsugu Mano, Kazuo Mukai, Hiromu Sakurai, Kazuhiko Ishizu



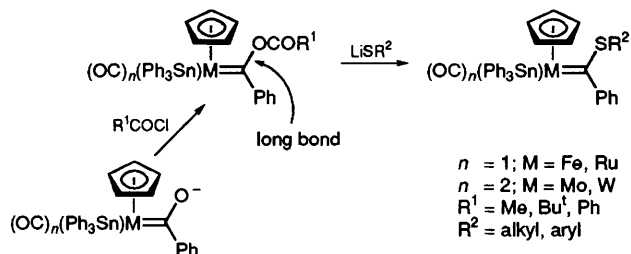
1509 **Selective Redistribution Reactions of Tetrakisphosphorus Hexoxide; Crystal Structure of  $P_4O_6NC_6H_5$**

M. Jansen, S. Strojek



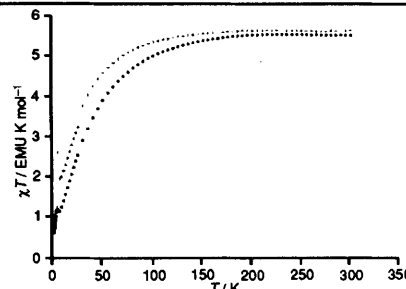
1511 **Syntheses of Acyloxy Carbene Complexes  $M(SnPh_3)(CO)_n\{=C(OCOR)Ph\}(\eta-C_5H_5)$  ( $M = Mo, W, n = 2, R = Me; M = Fe, Ru, n = 1, R = Me, Ph, Bu^t$ ) and X-Ray Crystal Structures of  $Fe(SnPh_3)(CO)\{=C(OCOR)Ph\}(\eta-C_5H_5)$  ( $R = Me, Ph$ )**

Harry Adams, Colin A. Maloney, Jayne E. Muir, Stephen J. Walters, Mark J. Winter



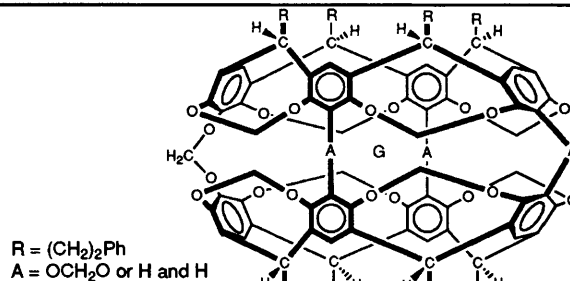
1513 **Synthesis and Magnetism of Mixed Valency  $[N(n-C_4H_9)_4 \text{ or } P(C_6H_5)_4] Cr^{II}Cr^{III}(C_2O_4)_3$**

Christopher J. Nuttall, Carlo Bellitto, Peter Day



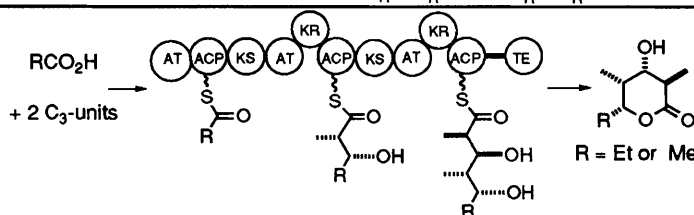
1515 **Comparisons of Activation Energies for Guest Escapes from the Inner Phases of Hemicarcerands with Varying Numbers of Bowl-linking Groups**

Timothy A. Robbins, Donald J. Cram



1517 **A Mutant Generated by Expression of an Engineered DEBS1 Protein from the Erythromycin-producing Polyketide Synthase (PKS) in *Streptomyces coelicolor* Produces the Triketide as a Lactone, but the Major Product is the nor-Analogue Derived from Acetate as Starter Acid**

Murray J. B. Brown, Jesus Cortes, Annabel L. Cutter, Peter F. Leadlay, James Staunton

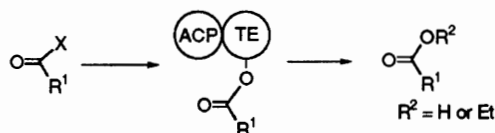


A mutant of *Streptomyces coelicolor* containing a rationally engineered polyketide synthase derived from *Saccharospora erythraea* produces the two lactones shown as natural products.

1519 **The Thioesterase of the Erythromycin-producing Polyketide Synthase: Mechanistic Studies *in vitro* to Investigate its Mode of Action and Substrate Specificity**

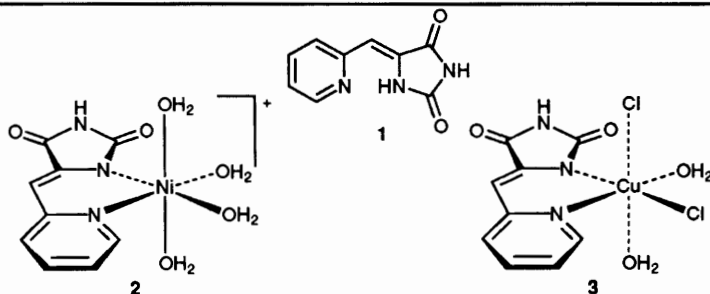
Ranjana Aggarwal, Patrick Caffrey, Peter F. Leadlay, Cameron J. Smith, James Staunton

The thioesterase from the erythromycin polyketide synthase, isolated as a bidomain with its neighbouring acyl carrier protein, hydrolyses a variety of acyl esters *in vitro* by a mechanism which involves acyl enzyme intermediates. The acyl chain is released as the carboxylic acid or as an ester of an added alcohol.



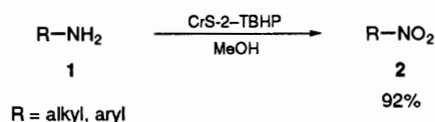
1521 **Synthesis and Crystal Structure of 5-(2-Pyridylmethylene)hydantoin (Hpyhy) and Complexes of hpyhy with Nickel(II) and Copper(II)**

Mubarik M. Chowdhry, Andrew D. Burrows, D. Michael P. Mingos, Andrew J. P. White, David J. Williams



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

B. Jayachandran, M. Sasidharan, A. Sudalai, T. Ravindranathan



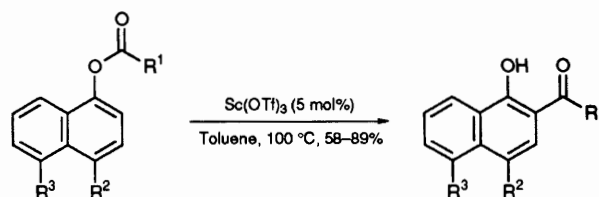
1525 **Enhanced Photopolymerization of Diacetylene in Colloidal Gold Solution**

H. S. Zhou, T. Wada, H. Sasabe

The diacetylene  $\text{Me}(\text{CH}_2)_{11}\text{C}\equiv\text{C}-\text{C}\equiv\text{C}(\text{CH}_2)_8\text{CO}_2\text{H}$  (12,18-DA) has been photopolymerized in an aqueous colloidal gold solution. The intensity of the absorption band due to photopolymerized diacetylene in the aqueous colloidal gold solution is *ca.* ten times that in an aqueous solution under the same conditions. Accelerated polymerisation in the presence of colloidal gold is believed to be due to attraction between the surface of the Au particles and the 12,8-DA molecules leading to an increased local concentration of the monomer units.

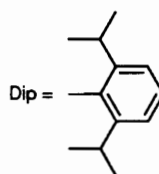
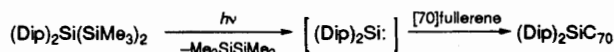
1527 **The Catalytic Fries Rearrangement of Acyloxy Naphthalenes using Scandium Trifluoromethanesulfonate as a Catalyst**

Shū Kobayashi, Mitsuhiro Moriwaki, Iwao Hachiya

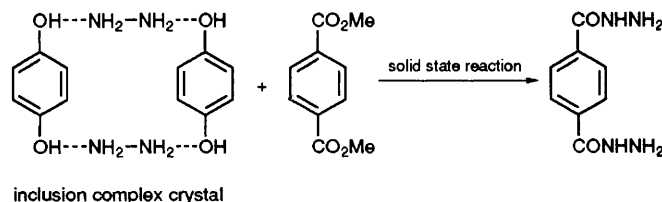


1529 **Regioselective Addition of Silylene on to [70]-Fullerene**

Takeshi Akasaka, Eiko Mitsuhide, Wataru Ando, Kaoru Kobayashi, Shigeru Nagase

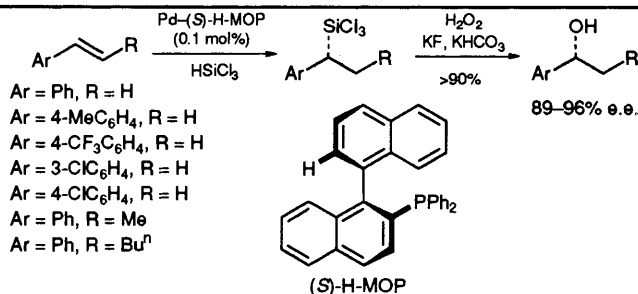


- 1531 **Isolation of Anhydrous Hydrazine as Stable Inclusion Complexes with Hydroquinone and *p*-Methoxyphenol, and their Solid State Reaction with Esters which gives Pure Hydrazides**



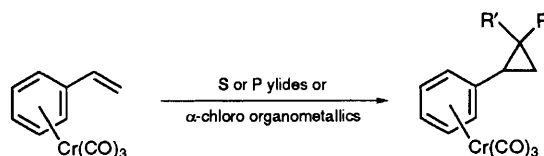
Fumio Toda, Shunji Hyoda, Kengo Okada, Ken Hirotsu

- 1533 **Palladium-catalysed Asymmetric Hydrosilylation of Styrenes with a New Chiral Monodentate Phosphine Ligand**



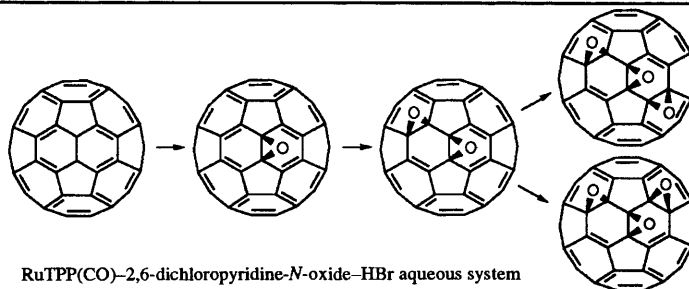
Kenji Kitayama, Yasuhiro Uozumi, Tamio Hayashi

- 1535 **Cyclopropanation of Tricarbonyl(styrene)-chromium(0)**



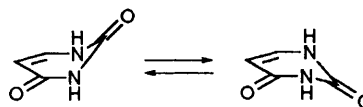
Susan E. Gibson (née Thomas), Gary R. Jefferson, Frank Prechtl

- 1537 **Oxidation of [60]Fullerene by Cytochrome P450 Chemical Models**



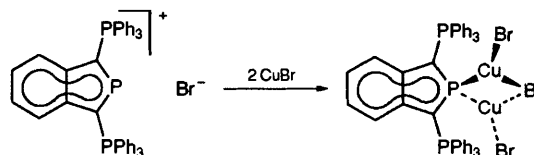
Takeshi Hamano, Tadahiko Mashino, Masaaki Hirobe

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



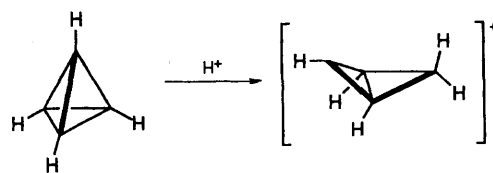
Oleg V. Shishkin

- 1541 **A Novel Coordination Mode for Cationic Phosphorus  $\pi$  Systems:  $\mu^2$ -Bridging Coordination of a Bis(phosphonio)isosphindolium Cation**

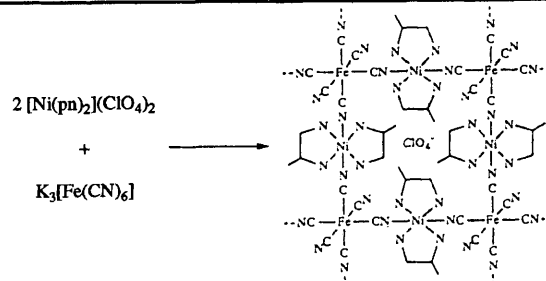


Dietrich Gudat, Martin Schrott, Martin Nieger

## 1543 Harnessing Steric Strain to Obtain Superbases

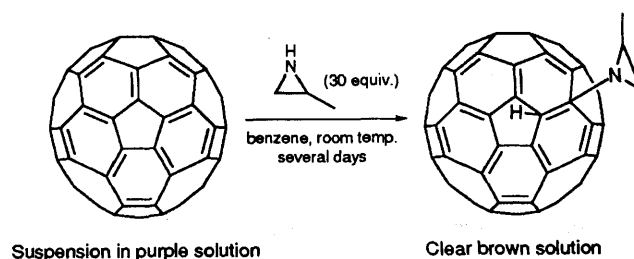


Rafael Notario, José Elguero

1545 A Two-dimensional Bimetallic Assembly,  $[\text{Ni}(\text{pn})_2][\text{Fe}(\text{CN})_6]\text{ClO}_4 \cdot 2\text{H}_2\text{O}$ , with a Square Structure

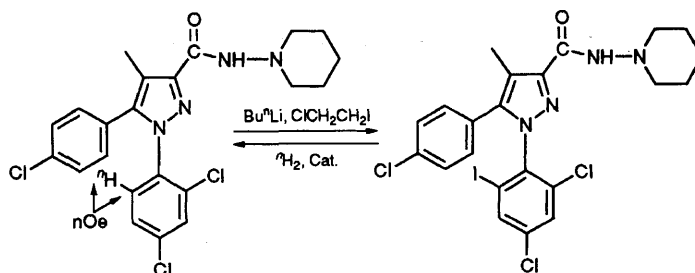
Masaaki Ohba, Hisashi Ōkawa, Tasuku Ito, Akihiro Ohto

## 1547 Lattice-type Polymers from an Adduct of [60]-Fullerene and 2-Methylaziridine

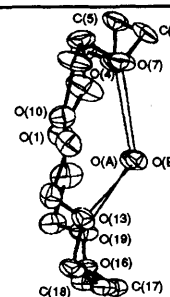


A. Nigam, T. Shekharam, T. Bharadwaj, J. Giovanola, S. Narang, R. Malhotra

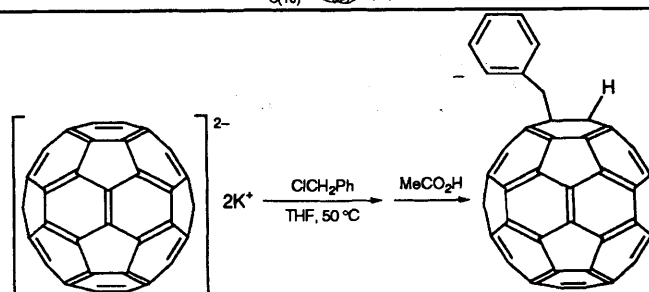
## 1549 Synthesis, Spectral Studies and Tritiation of the Cannabinoid Antagonist SR141716A



Herbert H. Seltzman, F. Ivy Carroll, Jason P. Burgess, Christopher D. Wyrick, David F. Burch

1551 Synthesis and X-Ray Crystal Structure of  $[\text{H}_5\text{O}_2^+ \cdot 21\text{-Crown-7}][\text{WCl}_5^-]$ , a Complex in which the 21-Crown-7 Molecule adopts a Rigid, Bowl-like Conformation

Peter C. Junk, Jerry L. Atwood

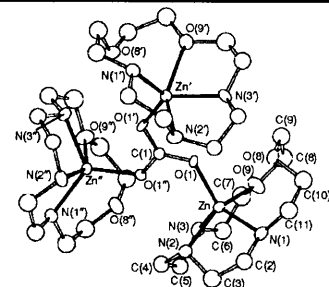
1553 Isomerically Pure Organo[60]fullerenes from  $\text{C}_{60}^{2-}$  Salt: Synthesis and Characterization of 1-Benzyl-2-hydro[60]fullerene

Jian Chen, Rui-Fang Cai, Zu-En Huang, Hou-Ming Wu, Shao-Kai Jiang, Qian-Fen Shao

1555 **Copper(II) and Zinc(II) Macrocyclic Complexes with High Efficiency in Fixing CO<sub>2</sub>. Crystal Structures of {[ZnL]<sub>3</sub>(μ<sub>3</sub>-CO<sub>3</sub>)}·(ClO<sub>4</sub>)<sub>4</sub> and {[CuL]<sub>3</sub>(μ<sub>3</sub>-CO<sub>3</sub>)}·(ClO<sub>4</sub>)<sub>4</sub> (L = [15]aneN<sub>3</sub>O<sub>2</sub>)**

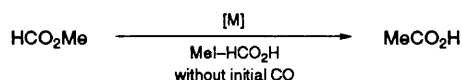
Carla Bazzicalupi, Andrea Bencini, Antonio Bianchi, Vieri Fusi, Piero Paoletti, Barbara Valtancoli

The Zn<sup>II</sup> and Cu<sup>II</sup> hydroxo complexes with the ligand [15]aneN<sub>3</sub>O<sub>2</sub> rapidly absorb atmospheric CO<sub>2</sub> to form trinuclear μ<sub>3</sub>-CO<sub>3</sub><sup>2-</sup> complexes.



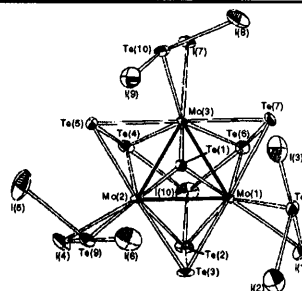
1557 **Formic Acid Promotion of Transition-metal Catalysed Isomerization of Methyl Formate**

Minserk Cheong, Seong-ho Bae, Kang B. Lee



1559 **Synthesis and Structure of Mo<sub>3</sub>Te<sub>10</sub>I<sub>10</sub> containing TeI<sub>3</sub><sup>-</sup> Ligands coordinated to a Triangular Cluster Fragment [Mo<sub>3</sub>(μ<sub>3</sub>-Te)(μ<sub>2</sub>-Te<sub>2</sub>)<sub>3</sub>]<sup>4+</sup>**

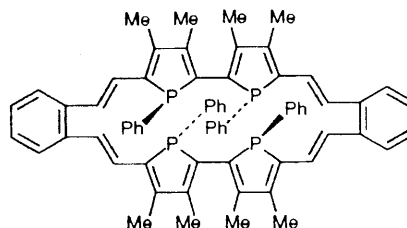
Vladimir P. Fedin, Hideo Imoto, Taro Saito



The high-temperature reaction of molybdenum, tellurium and iodine produces Mo<sub>3</sub>Te<sub>10</sub>I<sub>10</sub>, which contains the triangular cluster fragment [Mo<sub>3</sub>(μ<sub>3</sub>-Te)(μ<sub>2</sub>-Te<sub>2</sub>)<sub>3</sub>]<sup>4+</sup> and three TeI<sub>3</sub><sup>-</sup> ligands.

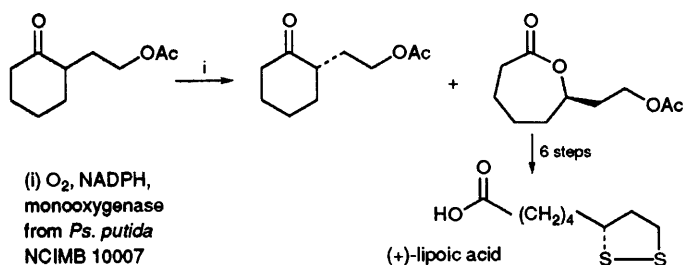
1561 **Synthesis and X-Ray Crystal Structural Analysis of a Fully Unsaturated Tetraphosphole Macrocycle**

Eliane Deschamps, Louis Ricard, François Mathey



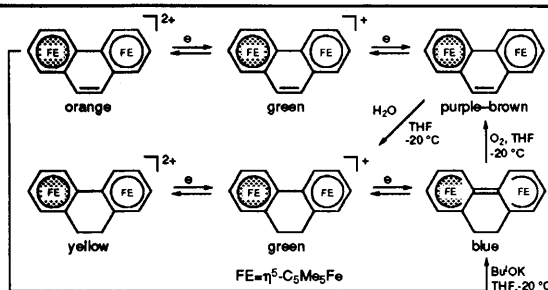
1563 **Application of Enzymic Baeyer–Villiger Oxidations of 2-Substituted Cycloalkanones to the Total Synthesis of (R)-(+)-Lipoic Acid**

Brian Adger, M. Teresa Bes, Gideon Grogan, Ray McCague, Sandrine Pedragosa-Moreau, Stanley M. Roberts, Raffaella Villa, Peter W. H. Wan, Andrew J. Willetts

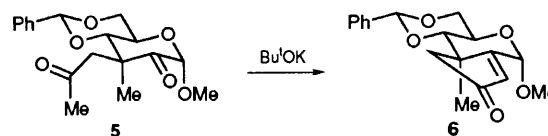


1565 **Electronic Communication and Switching between two Iron Atoms across the Phenanthrene–Dihydrophenanthrene Bridging Ligands**

Didier Astruc, Jaime Ruiz, Marc Lacoste, Bruno Gloaguen, Nicole Ardoin, Jorge Linarès, François Varret

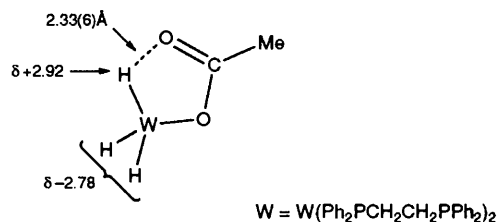


- 1567 **The Synthesis and X-Ray Crystal Structure of a Cyclopentaannulated Sugar; the First Example of an Intramolecular Aldol Cyclopentaannulation in Carbohydrate Chemistry**



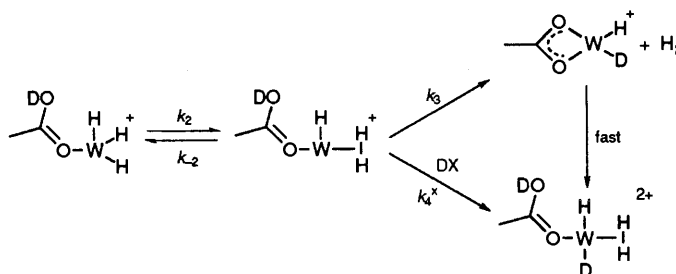
Andrew J. Wood, Paul R. Jenkins, John Fawcett, David R. Russell

- 1569 **An Intramolecular W–H···O=C Hydrogen Bond? Electrosynthesis and X-Ray Crystallographic Structure of [WH<sub>3</sub>(η<sup>1</sup>-OCOMe)-(Ph<sub>2</sub>PCH<sub>2</sub>CH<sub>2</sub>PPh<sub>2</sub>)<sub>2</sub>]**



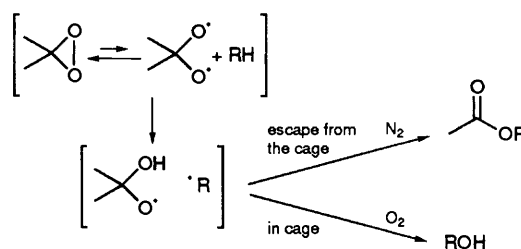
S. A. Fairhurst, R. A. Henderson, D. L. Hughes, S. K. Ibrahim, C. J. Pickett

- 1571 **Selective Release of Dihydrogen upon Deuteriation of Polyhydrido Complexes: Studies on [WH<sub>3</sub>(OCMeO)(Ph<sub>2</sub>PCH<sub>2</sub>CH<sub>2</sub>PPh<sub>2</sub>)<sub>2</sub>]**



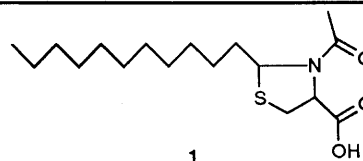
Richard A. Henderson, Saad K. Ibrahim, Kay E. Oglieve, Christopher J. Pickett

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



Anna Bravo, Francesca Fontana, Giovanni Fronza, Andrea Mele, Francesco Minisci

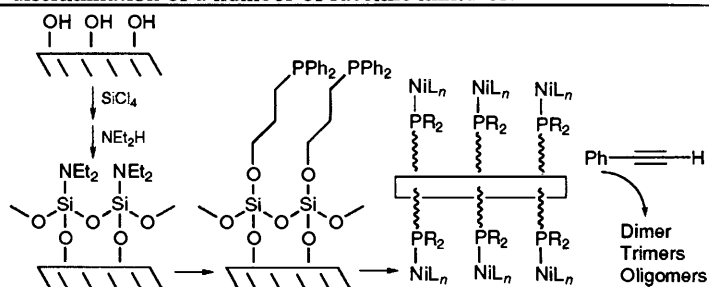
- 1575 **Chiral Discrimination in Capillary Electrophoresis using Novel Anionic Surfactants related to Cysteine**



The (2*R*, 4*R*) and (2*S*, 4*S*) enantiomers of the chiral anionic surfactant **1** have been designed and synthesised from readily available starting materials. The addition of these molecules to the separation buffer in capillary electrophoresis allows excellent chiral discrimination of a number of racemic mixtures.

Vern de Biasi, John Senior, Janusz A. Zukowski, R. Curtis Haltiwanger, Drake S. Eggleston, Patrick Camilleri

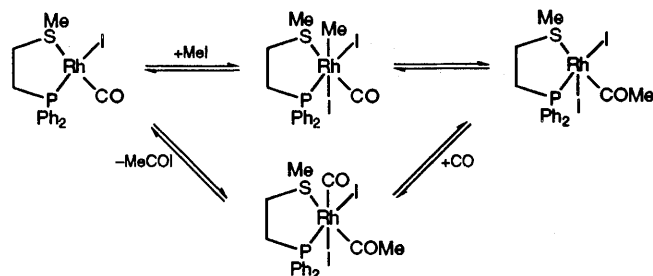
- 1577 **A Convenient Molecular Self-assembly Route to Thin Films containing Terminal Donor Ligands and Anchored Organotransition-metal Complexes for Heterogenized Homogeneous Catalysis**



Maria G. L. Petrucci, Ashok K. Kakkar

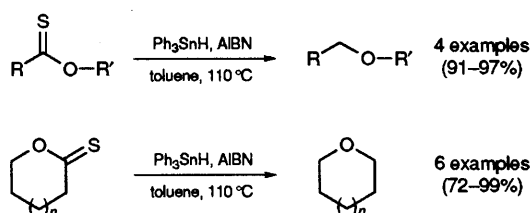


## 1579 Novel Catalysts for the Carbonylation of Methanol



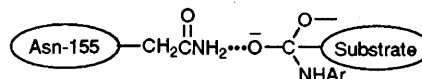
Jonathan R. Dilworth, John R. Miller, Nigel Wheatley, Michael J. Baker, J. Glenn Sunley

## 1583 Conversion of Thionoesters and Thionolactones to Ethers; a General and Efficient Radical Desulfurisation



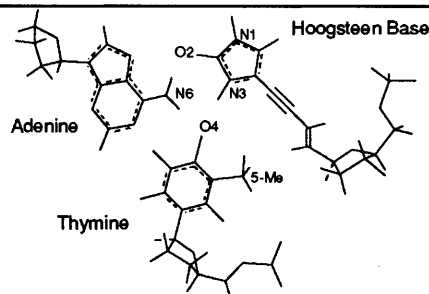
Kyriacos C. Nicolaou, Mitsunobu Sato, Emmanuel A. Theodorakis, Neil D. Miller

## 1587 Solvent Isotope Effects on a Hydrolysis Reaction Catalysed by Subtilisin and its N155G Mutant. Failure of the Proton Inventory Method to report Hydrogen-bonding Interactions in the Oxyanion Hole



Y. Chiang, A. J. Kresge, T. K. Chang, M. F. Powell, J. A. Wells

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

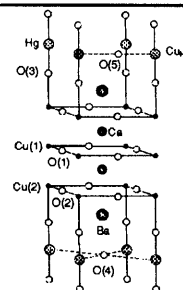


Jeffrey H. Rothman, W. Graham Richards

1591 Site-specific Ligand Variation in Manganese–Oxide Cubane Complexes, and Unusual Magnetic Relaxation Effects in  $[\text{Mn}_4\text{O}_3\text{X}(\text{OAc})_3(\text{dbm})_3]$  ( $\text{X} = \text{N}_3^-$ ,  $\text{OCN}^-$ ; Hdbm = dibenzoylmethane)

The question of how small molecules can be and still display unusual magnetic properties is fundamental to the development of new magnetic materials. The complexes  $[\text{Mn}_4\text{O}_3\text{X}(\text{OAc})_3(\text{dbm})_3]$  ( $\text{X} = \text{N}_3^-$ ,  $\text{OCN}^-$ ; Hdbm = dibenzoylmethane) contain a  $[\text{Mn}_4\text{O}_3\text{X}]^{6+}$  distorted-cubane core with extremely rare  $\mu_{3,1}$ - $\text{N}_3^-$  and  $-\text{OCN}^-$  groups; when studied by alternating current magnetic susceptibility measurements, they exhibit unusual magnetic relaxation effects characteristic of superparamagnetic materials, the smallest species to show this behaviour to-date.

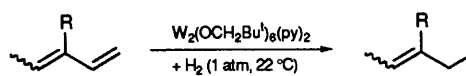
Michael W. Wemple, David M. Adams, Karl S. Hagen, Kirsten Folting, David N. Hendrickson, George Christou

1595 Defects and Holes in the Mercury-based Oxide Superconductors: Relevance to High  $T_c$  Behaviour

Laurence J. Winch, M. Saiful Islam

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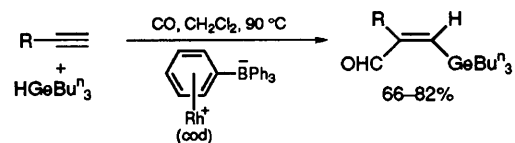
1599 **Selective Hydrogenations of Dienes and Olefins by**  
 **$[\text{W}_2(\text{OCH}_2\text{Bu}^t)_6(\text{py})_2]$**



Jane T. Barry, Malcolm H. Chisholm

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1601 **Germylformylation of Terminal Alkynes Catalysed**  
**by a Zwitterionic Rhodium(I) Complex**



Fanny Monteil, Howard Alper

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## AUTHOR INDEX

- Adams, David M., 1591  
 Adams, Harry, 1511  
 Adger, Brian, 1563  
 Aggarwal, Ranjana, 1519  
 Akasaka, Takeshi, 1529  
 Alper, Howard, 1601  
 Ando, Wataru, 1529  
 Ardoin, Nicole, 1565  
 Astruc, Didier, 1565  
 Atwood, Jerry L., 1551  
 Bae, Seong-ho, 1557  
 Baker, Michael J., 1579  
 Barry, Jane T., 1599  
 Bazzicalupi, Carla, 1555  
 Bellitto, Carlo, 1513  
 Bencini, Andrea, 1555  
 Bes, M. Teresa, 1563  
 Bharadwaj, T., 1547  
 Bianchi, Antonio, 1555  
 Bravo, Anna, 1573  
 Brooker, Sally, 1493  
 Brown, Murray J. B., 1517  
 Burch, David F., 1549  
 Burgess, Jason P., 1549  
 Burrows, Andrew D., 1521  
 Caffrey, Patrick, 1519  
 Cai, Rui-Fang, 1553  
 Camilleri, Patrick, 1575  
 Carroll, F. Ivy, 1549  
 Chang, T. K., 1587  
 Chen, Jian, 1553  
 Cheong, Minserk, 1557  
 Chiang, Y., 1587  
 Chin, Chong Shik, 1495  
 Chisholm, Malcolm H., 1599  
 Chowdhry, Mubarak M., 1521  
 Christou, George, 1591  
 Cortes, Jesus, 1517  
 Cram, Donald J., 1515  
 Croucher, Paul D., 1493  
 Crowley, Patrick J., 1497  
 Cutter, Annabel L., 1517  
 Day, Peter, 1513  
 de Biasi, Vern, 1575  
 De Cian, André, 1505  
 Deschamps, Eliane, 1561  
 Dilworth, Jonathan R., 1579  
 Edo, Takeshi, 1507  
 Eggleston, Drake S., 1575  
 Elguero, José, 1543  
 Eshelby, James J., 1497  
 Fairhurst, S. A., 1569  
 Fawcett, John, 1567  
 Fedin, Vladimir P., 1559  
 Fettinger, James C., 1487  
 Fischer, Jean, 1505  
 Folting, Kirsten, 1591  
 Fontana, Francesca, 1573  
 Fronza, Giovanni, 1573  
 Fusi, Vieri, 1555  
 Gibson (née Thomas), Susan E., 1535  
 Giovanola, J., 1547  
 Gloaguen, Bruno, 1565  
 Graf, Ernest, 1505  
 Grogan, Gideon, 1563  
 Gudat, Dietrich, 1541  
 Hachiya, Iwao, 1527  
 Hagen, Karl S., 1591  
 Haltiwanger, R. Curtis, 1575  
 Hamano, Takeshi, 1537  
 Hayashi, Tamio, 1533  
 Henderson, Richard A., 1569, 1571  
 Hendrickson, David N., 1591  
 Hirobe, Masaaki, 1537  
 Hirotsu, Ken, 1531  
 Hosseini, Mir Wais, 1505  
 Huang, Zu-En, 1553  
 Hughes, D. L., 1569  
 Hyoda, Shunji, 1531  
 Ibrahim, Saad K., 1569, 1571  
 Imoto, Hideo, 1559  
 Ishizu, Kazuhiko, 1507  
 Islam, M. Saiful, 1595  
 Ito, Tasuku, 1545  
 Iwata, Satoru, 1491  
 Jansen, M., 1509  
 Jayachandran, B., 1523  
 Jefferson, Gary R., 1535  
 Jefford, Charles W., 1501  
 Jenkins, Paul R., 1567  
 Jiang, Shao-Kai, 1553  
 Junk, Peter C., 1551  
 Kakkar, Ashok K., 1577  
 Kim, Jinkyung, 1495  
 Kitayama, Kenji, 1533  
 Knight, D. Andrew, 1487  
 Kobayashi, Kaoru, 1529  
 Kobayashi, Shū, 1527  
 Kotori, Martin, 1503  
 Kresge, A. J., 1587  
 Lacoste, Marc, 1565  
 Larsen, Sine, 1499  
 Leadlay, Peter F., 1517, 1519  
 Lee, Byeongno, 1495  
 Lee, Kang B., 1557  
 Linares, Jorge, 1565  
 McCague, Ray, 1563  
 Malhotra, R., 1547  
 Maloney, Colin A., 1511  
 Mano, Hirotsugu, 1507  
 Mashino, Tadahiko, 1537  
 Mathey, François, 1561  
 Mele, Andrea, 1573  
 Miller, John R., 1579  
 Miller, Neil D., 1583  
 Mingos, D. Michael P., 1521  
 Minisci, Francesco, 1573  
 Mitsuhashi, Eiko, 1529  
 Miyake, Sanae, 1507  
 Monteil, Fanny, 1601  
 Moriwaki, Mitsuhiro, 1527  
 Muir, Jayne E., 1511  
 Mukai, Kazuo, 1507  
 Nagase, Shigeru, 1529  
 Narang, S., 1547  
 Nicolaou, Kyriacos C., 1583  
 Nieger, Martin, 1541  
 Nigam, A., 1547  
 Notario, Rafael, 1543  
 Nuttall, Christopher J., 1513  
 Oglieve, Kay E., 1571  
 Ohba, Masaaki, 1545  
 Ohto, Akihiro, 1545  
 Oka, Shigenori, 1507  
 Okada, Kengo, 1531  
 Okawa, Hisashi, 1545  
 Paoletti, Piero, 1555  
 Park, Yongchul, 1495  
 Parsons, Philip J., 1497  
 Pedragosa-Moreau, Sandrine, 1563  
 Petrucci, Maria G. L., 1577  
 Pickett, Christopher J., 1569, 1571  
 Pilkington, Melanie, 1499  
 Powell, M. F., 1587  
 Pechtl, Frank, 1535  
 Ravindranathan, T., 1523  
 Ricard, Louis, 1561  
 Richards, W. Graham, 1589  
 Robbins, Timothy A., 1515  
 Roberts, Stanley M., 1563  
 Rothman, Jeffrey H., 1589  
 Ruiz, Jaime, 1565  
 Ruppert, Romain, 1505  
 Russell, David R., 1567  
 Saito, Masahiro, 1489  
 Saito, Taro, 1559  
 Sakurai, Hiromu, 1507  
 Sasabe, H., 1525  
 Sasaki, Yoshiyuki, 1489  
 Sasidharan, M., 1523  
 Sato, Mitsunobu, 1583  
 Schrott, Martin, 1541  
 Schull, Terence L., 1487  
 Seltzman, Herbert H., 1549  
 Senior, John, 1575  
 Shao, Qian-Fen, 1553  
 Shekharam, T., 1547  
 Shishkin, Oleg V., 1539  
 Sillars, Nan C., 1497  
 Smith, Cameron J., 1519  
 Staunton, James, 1517, 1519  
 Strojek, S., 1509  
 Sudalai, A., 1523  
 Sunley, J. Glenn, 1579  
 Tajima, Kunihiko, 1507  
 Takahashi, Tamotsu, 1503  
 Tanaka, Kiyoshi, 1491  
 Theodorakis, Emmanuel A., 1583  
 Timári, Géza, 1501  
 Toda, Fumio, 1531  
 Tominaga, Ken-ichi, 1489  
 Uozumi, Yasuhiro, 1533  
 Valtancoli, Barbara, 1555  
 Varret, François, 1565  
 Villa, Raffaella, 1563  
 Wada, T., 1525  
 Wallis, John D., 1499  
 Walters, Stephen J., 1511  
 Wan, Peter W. H., 1563  
 Watanabe, Taiki, 1489  
 Wells, J. A., 1587  
 Wemple, Michael W., 1591  
 Wheatley, Nigel, 1579  
 White, Andrew J. P., 1521  
 Willetts, Andrew J., 1563  
 Williams, David J., 1521  
 Winch, Laurence J., 1595  
 Winter, Mark J., 1511  
 Wood, Andrew J., 1567  
 Wu, Hou-Ming, 1553  
 Wyrick, Christopher D., 1549  
 Xi, Zhenfeng, 1503  
 Zhou, H. S., 1525  
 Zukowski, Janusz A., 1575

