

JOURNAL OF THE CHEMICAL SOCIETY

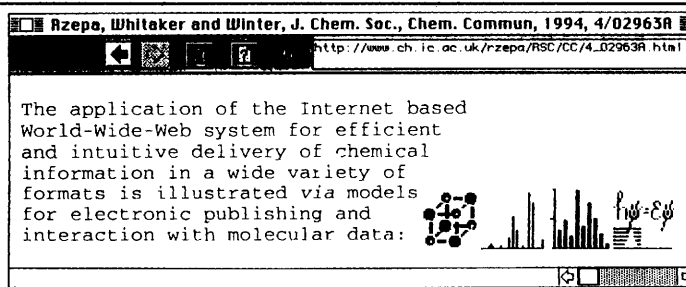
Chemical Communications

Number 17
1994

CONTENTS

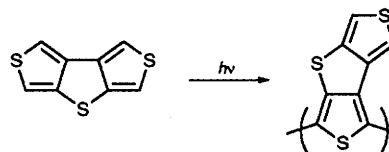
1907 Chemical Applications of the World-Wide-Web System

Henry S. Rzepa, Benjamin J. Whitaker, Mark J. Winter



1911 New Photochemical Synthesis of Transparent Conducting Polydithieno[3,4-*b*;3',4'-*d*]Thiophene

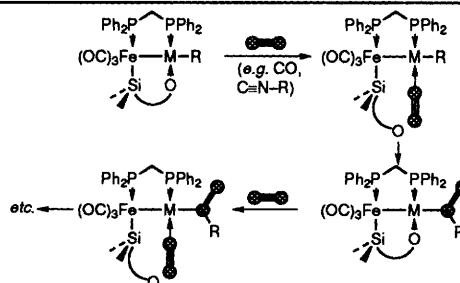
Marinella Catellani, Tullio Caronna, Stefano Valdo Meille



The photopolymerisation of dithieno[3,4-*b*;3',4'-*d*]thiophene leads to a material with electrochromic properties.

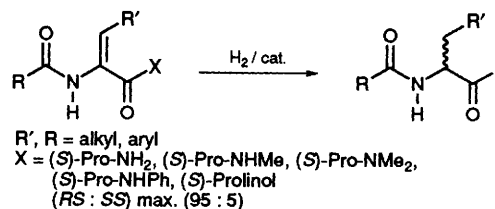
1913 Heterobimetallic Templates for Carbon–Carbon Bond Formation by Migratory Insertion Reactions involving CO, Isonitriles or Olefins

Pierre Braunstein, Michael Knorr, Thomas Stährfeldt



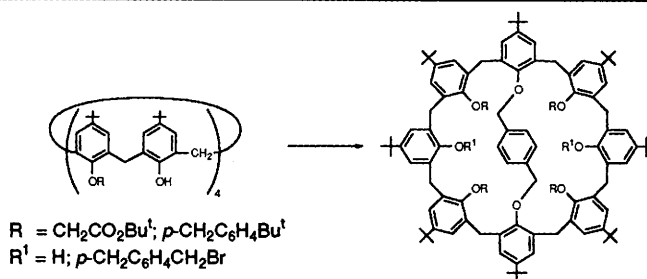
1915 The Highly Diastereoselective, Heterogeneous Hydrogenation of Didehydrodipeptides. Synthesis of Optically Active Amino Acids

Ulrich Schmidt, Siegfried Kumpf, Karin Neumann



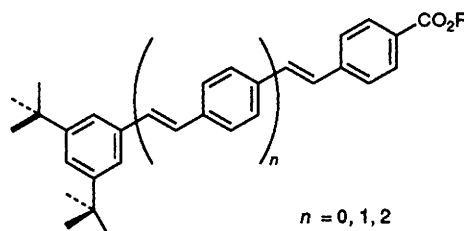
1917 **Shaping Calix[8]arene Framework by Intramolecular Bridging. Synthesis of Conformationally Blocked Calix[8]arene Derivatives**

Francesca Cunsolo, Mario Piattelli, Placido Neri



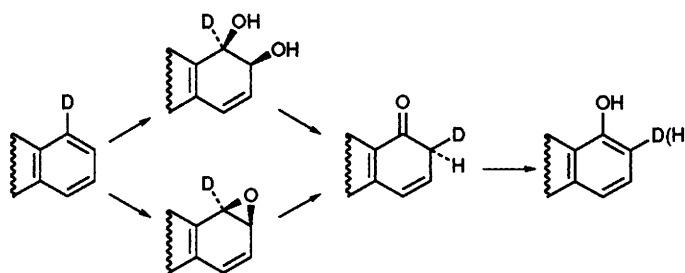
1919 **Stereo- and Oligo-controlled Synthesis of Oligo[*p*-phenylene-(*E*)-vinylene]-*p*-benzoic Acid Derivatives: Basic Building Blocks for Oligo[*p*-phenylene-(*E*)-vinylene]s**

Tze-Lock Chan, Hak-Fun Chow, Sun Fong, Man-kit Leung, Jingren Tu



1921 **Bacterial Aromatic Hydroxylation: *cis*-Dihydrodiol Metabolites and their Possible Role in the 'NIH Shift'**

Stephen A. Barr, Derek R. Boyd, Narain D. Sharma, Lynne Hamilton, R. Austin S. McMordie, Howard Dalton



1923 **Transition Metal Catalysed *ipso*-Replacement Reactions of Heteroaromatic Phenolic Ethers by Zinc and Tin Organometallic Compounds**

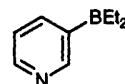
Amadeu F. Brigas, Robert A. W. Johnstone



Reaction 1 proceeds with organometallics, $(\text{R}')_n\text{M}(\text{X})$, and catalysis by Ni^0 or Pd^0 , where $\text{R} = 3\text{-pseudosaccharyl}$ or $1\text{-phenyltetrazol-5-yl}$, $\text{R}' = \text{alkyl}$ or aryl or heteroaryl , and $(\text{R}')_n\text{M}(\text{X})$: $\text{M} = \text{Mg}$, $n = 1$, $\text{X} = \text{Cl}$; Zn , $n = 2$, no X ; Sn , $n = 4$, no X

1925 **The Structure of Diethyl(3-pyridyl)borane**

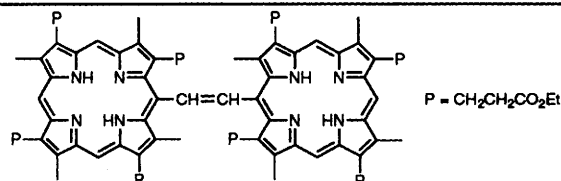
Yoshikazu Sugihara, Ryuta Miyatake, Katsuto Takakura, Shigenobu Yano



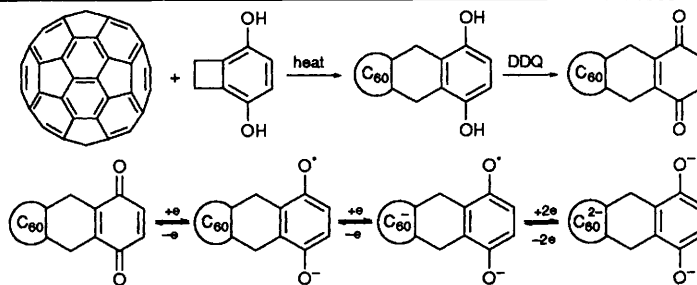
X-Ray crystallography, together with vapour pressure osmometry and spectroscopic data, revealed that diethyl(3-pyridyl)borane is a cyclic tetramer.

1927 ***cis*-*trans* Isomerisation and Atropisomerism of Octaethyl 1,2-bis(coproporphyrinyl)ethylene Ester**

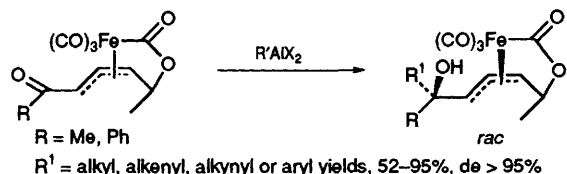
Gelii V. Ponomarev, Victor V. Borovkov, Alexander M. Shul'ga, Yoshiteru Sakata



Oxidation of 1,2-bis(coporphyrinyl)ethane gives the only sterically hindered atropisomer of a *trans*-ethylene dimer which transforms to two atropisomers of a *cis*-ethylene dimer

1929 **Synthesis and Properties of a Novel Redox System containing Fullerene and *p*-Benzoquinone**

Masahiko Iyoda, Fatema Sultana, Shigeru Sasaki, Masato Yoshida

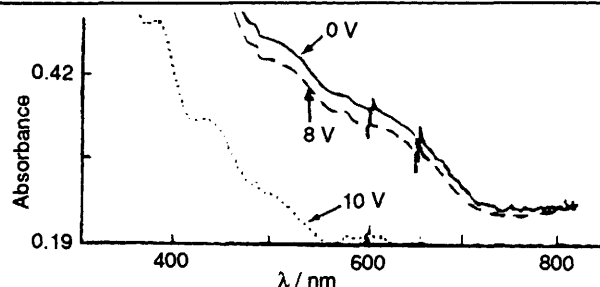
1931 **Diastereoselective Addition Reactions to Carbonyl Groups in the Side-chain of π -Allyltricarbonyliron Lactone Complexes**

Steven V. Ley, Graham Meek, Karl-Heinz Metten, Carmen Pique

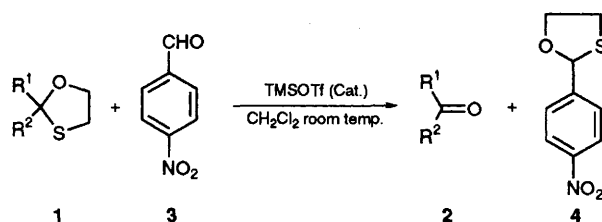
1933 **Synthesis and Characterization of Crystalline, Tin-silicate Molecular Sieves with MFI Structure**

Crystalline microporous tin silicates (Si/Sn > 30) with the MFI structure have been synthesised hydrothermally. Unit cell expansion indicates about 20% of Sn⁴⁺ in the framework of the silicalite-1 structure. Tin-119 NMR data indicate an octahedral coordination for tin. These tin silicates catalyse the hydroxylation of phenol to catechol and hydroquinone with aqueous hydrogen peroxide.

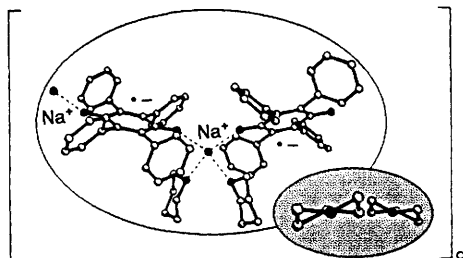
Nawal Kishor Mal, Veda Ramaswamy, S. Ganapathy, A. V. Ramaswamy

1935 **Novel Complexes With New Electro-optic Properties**

Andrew P. Abbott, Paul R. Jenkins, Nadia S. Khan

1937 **Unusually Facile Oxathioacetal Transfer Reaction: an Efficient, Highly Selective Catalytic Deprotection Protocol**

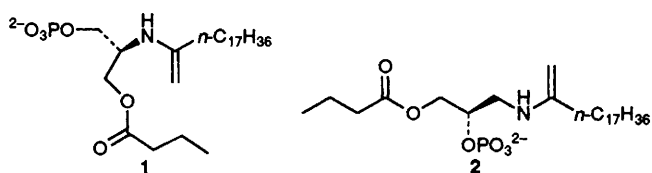
T. Ravindranathan, Subhash P. Chavan, Jos P. Varghese, Shubhada W. Dantale, Rajkumar B. Tejwani

1939 **Pseudopolymorphic Crystals of Sodium Tetraphenyl-*p*-benzosemiquinone containing Two or Three Tetrahydropyran Solvent Molecules**

Hans Bock, Andreas John, Christian Näther

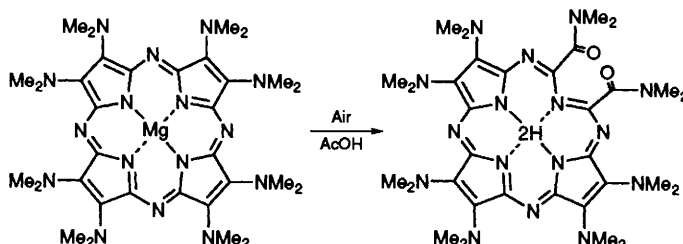
1941 **Tuning the Supramolecular Expression of Chirality: Phospholipid Analogues containing Amide Linkages**

Nico A. J. M. Sommerdijk, Peter J. A. A. Buynsters, Arthur M. A. Pistorius, Mu Wang, Martinus C. Feiters, Roeland J. M. Nolte, Binne Zwanenburg



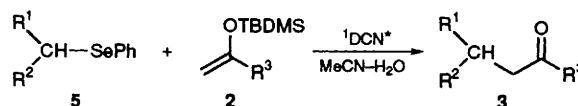
1943 **Serendipitous Desymmetrisation during Porphyrazine Synthesis: an X-Ray Crystallographic Study of 2,3,7,8,12,13,17,18-Octakis(dimethylamino)-2-secoporphyrazine-2,3-dione**

Neelakandha S. Mani, L. Scott Beall, Andrew J. P. White, David J. Williams, Anthony G. M. Barrett, Brian M. Hoffman



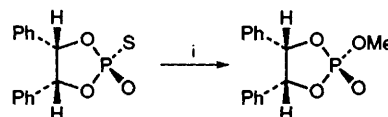
1945 **Photoinduced Electron Transfer (PET) Promoted Cross-coupling of Organoselenium and Organosilicon Compounds: a New Carbon–Carbon Bond Formation Strategy**

Ganesh Pandey, R. Sochanchingwung



1947 **The Stereochemical Course of Substitution of Sulfur by Oxygen Nucleophiles in Five-membered Cyclic Phosphorothioates**

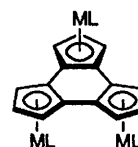
Gordon Lowe, Mats Thelin



Reagent: 3 equiv. of MeOH and 1.5 equiv. of Br₂ in DMF

1949 **Stepwise Oxidation of Three Communicating Metal Centres: Electrochemistry of Trinuclear Trindenyl Complexes of Manganese or Rhodium**

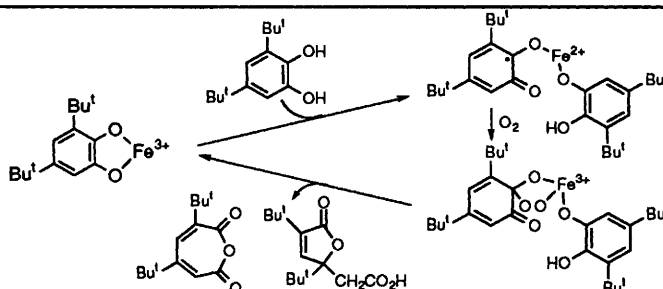
Rainer Winter, David T. Pierce, William E. Geiger, Thomas J. Lynch



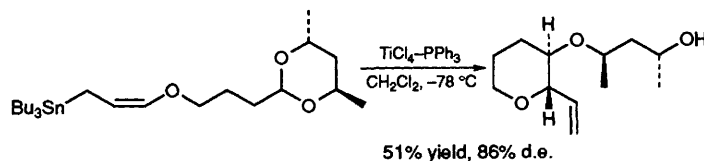
Trimetallic trindenyl complexes of Mn and Rh undergo successive one electron oxidations, the second and third of which have an unusually large potential separation for ML = Rh(cod).

1951 **Activation of Chelated Catecholatoiron Species for Catalytic Oxygenation of Catechols by Catecholdioxygenase-model Iron Complexes**

Takuzo Funabiki, Michiya Ishikawa, Yasutaka Nagai, Jun Yorita, Satoshiro Yoshida

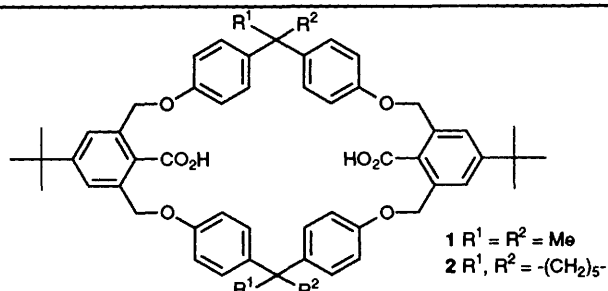


- 1953 **Asymmetric Synthesis of β -Alkoxy cyclic Ethers via the Intramolecular Cyclization of Group 14 Allyls containing Chiral Acetals**



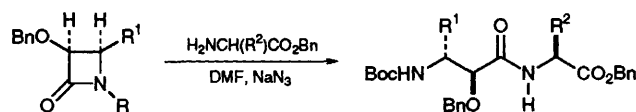
Isao Kadota, Koichi Miura, Yoshinori Yamamoto

- 1955 **Preorganized *endo*-Dicarboxylic Host Macrocycles having Superior Extraction Selectivity for Small Alkaline Earth Metal Ions**



Karsten Gloe, Holger Stephan, Olaf Heitzsch, Heinz Bukowsky, Erhard Uhlemann, Rolf Pollex, Edwin Weber

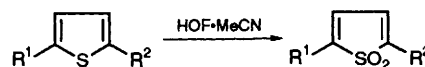
- 1957 **A Route to Dipeptides containing β -Amino- α -hydroxy Acid Fragments by Coupling of *N*-Boc- β -Lactams with α -Amino Esters. Application to the Synthesis of (-)-Bestatin**



α -Amino esters are smoothly acylated by *N*-Boc-3-alkoxy-4-alkyl β -lactams in DMF under the influence of sodium azide, giving a novel dipeptide coupling reaction.

Claudio Palomo, Jesús M^a Aizpurua, Carmen Cuevas

- 1959 **A Novel Oxidation of Thiophenes using HOF·MeCN**



The HOF·MeCN complex, easily made by bubbling fluorine through aqueous acetonitrile, oxidises various thiophenes to the corresponding dioxides with unparalleled ease and efficiency.

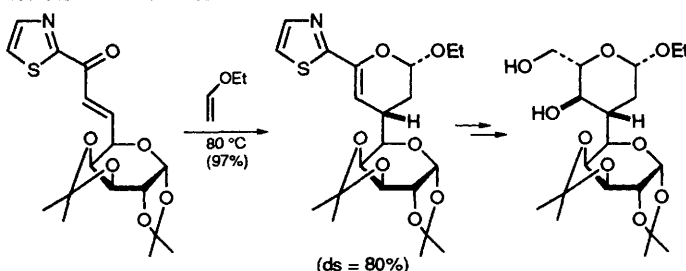
Shlomo Rozen, Yifat Bareket

- 1961 **A New Kinetic Pattern for the Substitution Reactions of Inorganic Complexes: Studies on [Fe₂S₂Cl₄]²⁻**

In acetonitrile solution [Fe₂S₂Cl₄]²⁻ rapidly forms [Fe₂S₂Cl₃(NCMe)], in which the two iron centres are distinguished by their coordination spheres. The rate of substitution of the MeCN ligand by L = EtS⁻, Bu^tS⁻ or Br⁻ is inhibited by increasing the concentration of L, as a consequence of preferential binding to the non-labile iron centre.

Richard A. Henderson, Kay E. Oglieve

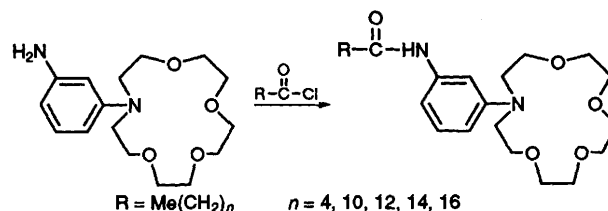
- 1963 **A Stereoselective Hetero-Diels–Alder Approach to Carbon–Carbon Linked Disaccharides**



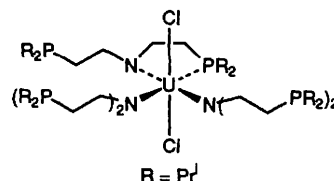
Alessandro Dondoni, Ladislav Kniezo, Miroslava Martinkova

1965 Self Assembly of Bilayer Membranes from Single-chain Aza Crown Ether

Zihou Tai, Xiangping Qian, Lin Wu, Chunsheng Zhu

1967 The First Authenticated Uranium(v)-Phosphine Complex, $\text{UCl}_2[\text{N}(\text{CH}_2\text{CH}_2\text{PPr}^i_2)_2]_3$

Simon J. Coles, Peter G. Edwards, Michael B. Hursthouse, Paul W. Read

Reaction of UCl_4 with the diposphinoamido ligand $(\text{Pr}^i_2\text{PCH}_2\text{CH}_2)_2\text{N}^+$ in the presence of oxygen gives rise to the first well characterised uranium(v)-tertiary phosphine complex.

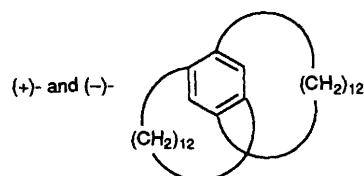
1969 EPR Observation of a Radical Cation Salt derived from Hexamethyl(Dewar Benzene) at Room Temperature

Heinz D. Roth, Prasad Lakkaraju, Junxiong Zhang

Vapour deposition of hexamethyl(Dewar benzene) or hexamethylprismane onto solid dioxygenyl hexafluoroantimonate at 77 K followed by warming to 300 K gives rise to 13-line EPR spectra ($g = 2.0025$; $A = 10.7$ G), which are tentatively assigned to an elongated hexamethylbenzene radical cation.

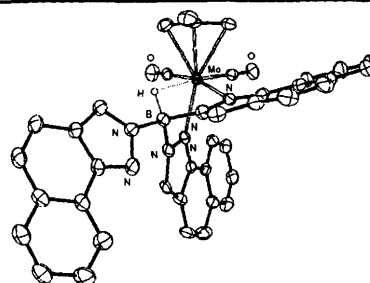
1971 A New Route to Optically Active [12][12]-Paracyclophanes

Tze-Lock Chan, Chi-Wai Hung, Tim-On Man, Man-kit Leung

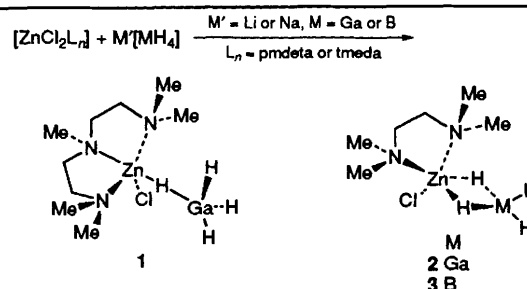


1973 A Novel Homoscorpionate Ligand and its Unusual Bonding in a Molybdenum Complex

Arnold L. Rheingold, Brian S. Haggerty, Swiatoslaw Trofimenko

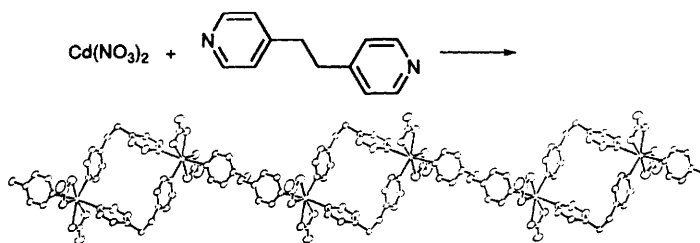
1975 Hydride-bridged Heterobimetallic Complexes of Gallium and Zinc: the First X-Ray Structural Determination of the GaH_4^- Moiety

George A. Koutsantonis, Fu Chin Lee, Colin L. Raston



1977 **One-dimensional Coordinate Polymer involving Heptacoordinate Cadmium(II) Ions**

Makoto Fujita, Yoon Jung Kwon, Mayumi Miyazawa, Katsuyuki Ogura



1979 **Total Synthesis of Furoscrobiculin B**

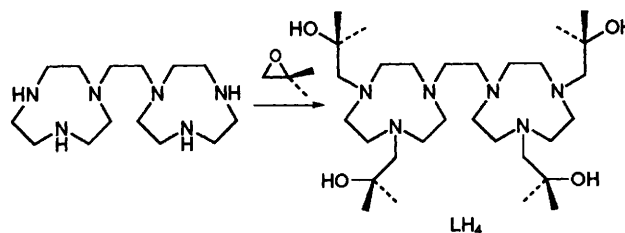
Takashi Ogino, Chihiro Kurihara, Yoshiyasu Baba, Ken Kanematsu



The first total synthesis of Furoscrobiculin B is described.

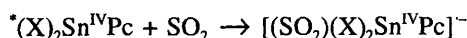
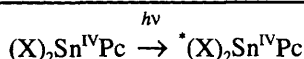
1981 **Synthesis of a New Binucleating Ligand LH₄: Synthesis and X-Ray Structures of *anti*-[Co₂(LH₄)(OH₂)₂](NO₃)₄·5H₂O, *anti*-[Ni₂(LH₄)(NCMe)₂](PF₆)₄·4H₂O, *anti*-[Zn₂(LH₄)(NO₃)₂](NO₃)₂ and *syn*-[Cu₂(LH₂)](BPh₄)₂**

Alexander J. Blake, Therese M. Donlevy, Paul A. England, Ian A. Fallis, Simon Parsons, Steven A. Ross, Martin Schröder



1983 **Photoassisted Electron Transfer Between Sulfur Dioxide and Tin(IV) Phthalocyanines**

Tebello Nyokong

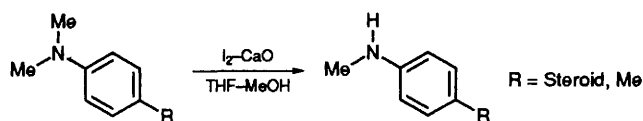


X = Cl⁻ or OH⁻

Photolysis of tin(IV) phthalocyanine complexes, (OH)₂Sn^{IV}Pc and Cl₂Sn^{IV}Pc, in the presence of sulfur dioxide, results in the ring reduction of the Sn^{IV}Pc complexes to anion radicals. The photolysis is first order in both sulfur dioxide and Sn^{IV}Pc species.

1985 **Oxidative Demethylation of 4-Substituted *N,N*-Dimethylanilines with Iodine and Calcium Oxide in the Presence of Methanol**

Kirk Acosta, James W. Cessac, P. Narasimha Rao, Hyun K. Kim



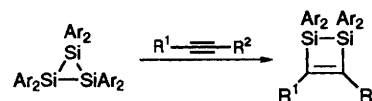
Reaction of *para*-substituted *N,N*-dimethylarylamines with iodine–calcium oxide in tetrahydrofuran–methanol affords *N*-methylarylamines in good yield.

1987 **A Synthesis of Bismuth(III) Phosphide: the First Binary Phosphide of Bismuth**

Claire J. Carmalt, Alan H. Cowley, Andrew L. Hector, Nicholas C. Norman, Ivan P. Parkin

The reaction between BiCl₃ and three equivalents of P(SiMe₃)₃ affords a black precipitate of bismuth(III) phosphide, BiP, which is the first reported binary phosphide of bismuth. Preliminary characterisation of this material by elemental analysis, energy dispersive X-ray analysis (EDXA) and scanning electron microscopy (SEM) is provided.

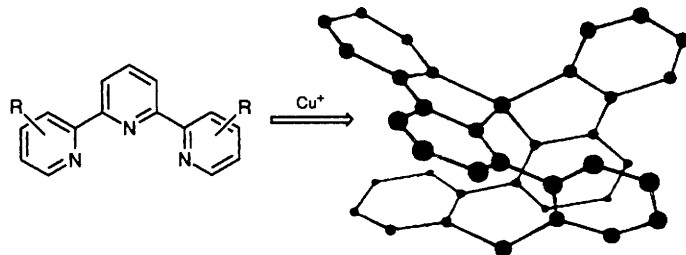
- 1989 **Reactions of a Cyclotrisilane with Alkynes: Synthesis and First Crystal Structure of 1,2-Disilacyclobut-3-enes**



1,2-Disilacyclobut-3-enes can be synthesised thermally from a cyclotrisilane [Ar = 2-(Me₂NCH₂)C₆H₄] and alkynes; the first solid state structure of a 1,2-disilacyclobut-3-ene is determined by single crystal X-ray diffraction.

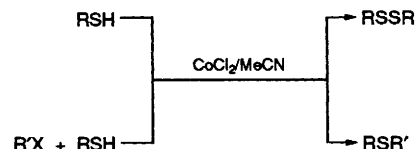
Johannes Belzner, Heiko Ihmels, Boris O. Kneisel, Regine Herbst-Irmer

- 1991 **Double-helical Complexes from Simple 2,2':6',2''-Terpyridines; The Crystal and Molecular Structure [Cu₂(Ph₂tpy)₂][PF₆]₂ (Ph₂tpy = 6,6''-diphenyl-2,2':6',2''-terpyridine)**



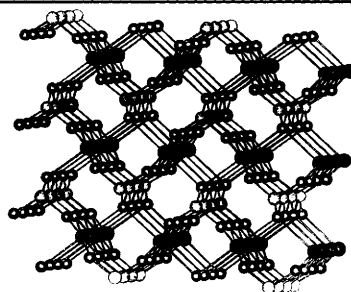
Edwin C. Constable, Andrew J. Edwards, Michael J. Hannon, Paul R. Raithby

- 1993 **B₁₂ Mimicry in a Weak Ligand Environment: Oxidation and Alkylation of Thiols**



Shantanu Chowdhury, Purnima M. Samuel, Indira Das, Sujit Roy

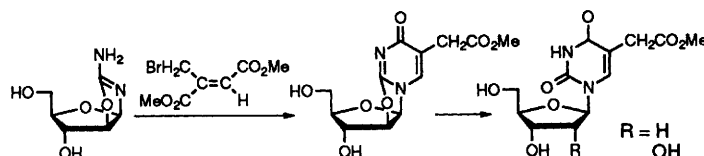
- 1995 **The Crystal Structure and Magnetic Properties of CuGeO₃**



Crystal Structure of CuGeO₃

Mark A. Green, Mohamedally Kurmoo, Judith K. Stalick, Peter Day

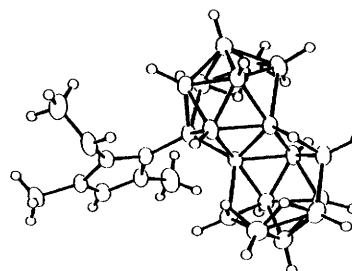
- 1997 **Efficient Synthesis of New 5-Substituted Uracil Nucleosides Useful for Linker Arm Incorporation**



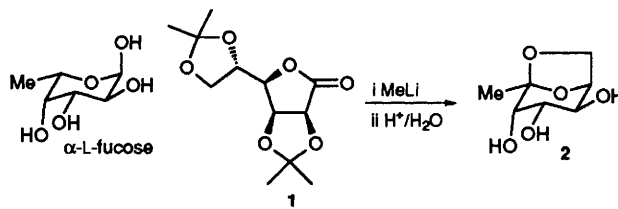
Hiroaki Sawai, Akiko Nakamura, Sumie Sekiguchi, Keisuke Yumoto, Masakazu Endoh, Hiroaki Ozaki

5-Substituted uracil nucleosides useful for the attachment of linker arms to nucleic acids have been prepared in a short reaction sequence and incorporated into oligodeoxyribonucleosides.

- 1999 **Macropolyhedral Boron-containing Cluster Chemistry. A Reductive Trimerisation of MeNC to give an Imidazole-based Carbene Stabilized by Coordination to Boron in an Eighteen-vertex Cluster Compound**



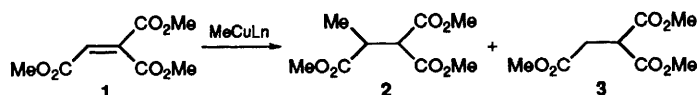
Tomáš Jelínek, John D. Kennedy, Bohumil Štíbr, Mark Thornton-Pett

2001 Short Synthesis of a Bicyclic Mimic of α -L-Fucose

Annabel R. Beacham, Keith Biggadike, Helen E. Taylor, Lucy Hackett, Bryan G. Winchester, David J. Watkin, George W. J. Fleet

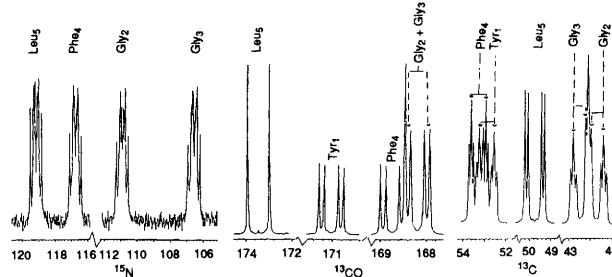
The rigid bicyclic fucose mimic **2** can be made from **1** in 85% yield.

2003 A Chemical Scale for Electron-transfer Ability of Methylcopper Reagents

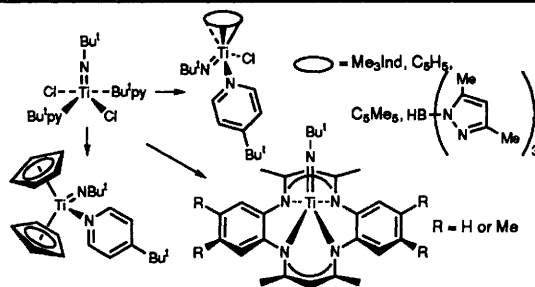


2:3 ratio; $\text{MeCu}(\text{CN})\text{Li} > \text{MeCu} > \text{Me}_2\text{Cu}(\text{CN})\text{Li}_2 > \text{Me}_2\text{CuLi} > \text{Me}_3\text{CuLi}_2$

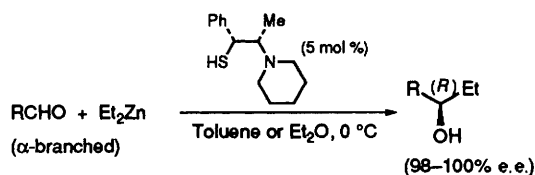
Yukiyasu Chounan, Toshiro Ibuka, Yoshinori Yamamoto

2005 First Synthesis of a Fully [^{15}N , ^{13}C] Backbone-Labelled Peptide. ^{15}N NMR Spectrum of Corresponding Leu-Enkephalin

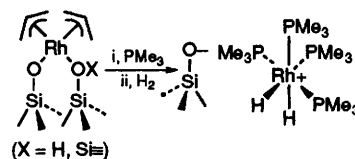
Barthélemy Nyassé, Leif Grehn, Ulf Ragnarsson

2007 A General Route to Sandwich and Half-sandwich Titanium Imido Complexes: X-Ray Structure of $[\text{Ti}(\eta^4\text{-Me}_8\text{taa})(\text{NBu}^t)]$ ($\text{Me}_4\text{taa} =$ tetramethyldibenzotetraaza[14]annulene)

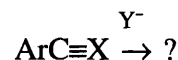
Simon C. Dunn, Andrei S. Batsanov, Philip Mountford

2009 Enantioselective Addition of Diethylzinc to α -Branched Aldehydes

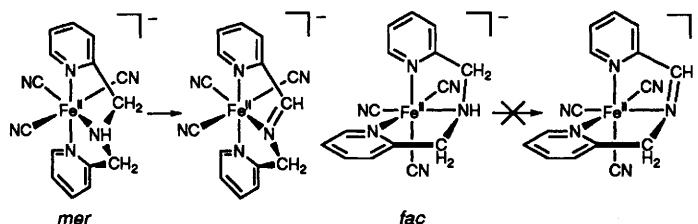
Jahyo Kang, Jun Won Lee, Joo In Kim

2011 Surface-mediated Organometallic Synthesis of $[\equiv\text{SiO}]^-\text{[RhH}_2(\text{PMe}_3)_4]^+$: the First Example of a Cationic Organometallic Complex attached to the Silica Surface by Ion Pairing

Susannah L. Scott, Pascal Dufour, Catherine C. Santini, Jean-Marie Basset

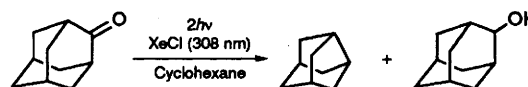
2013 Alkynyl $S_{RN}1$ Reaction: Feasible or Not?

Carlo Galli, Patrizia Gentili

2015 Dependence of Dehydrogenation of Amines towards Coordination Geometry: Oxidation Products of Tricyano[di(2-pyridylmethyl)amine]ferrate(II) from *mer* and *fac* Isomers

Masafumi Goto, Nobuhiro Koga, Yasuhiko Ohse, Hiromasa Kurosaki, Takayuki Komatsu, Yoshitaka Kuroda

2017 Decarbonylation of Adamantan-2-one by Two-photonic Excitation with XeCl Laser



Two-photonic excitation with an XeCl laser pulse (308 nm), or one-photonic excitation with 185 nm light, of adamantane-2-one in cyclohexane gave noradamantane and adamantane-2-ol.

Nobuyuki Ichinose, Shunichi Kawanishi

2019 Lanthanide Complex–Oligo-DNA Hybrid for Sequence-selective Hydrolysis of RNA

Lanthanide(Ln)-iminodiacetate complexes, attached to the 5'-end of a 15-*mer* DNA, hydrolyse a 39-*mer* RNA selectively at the 3'-side of its 15-*mer* sequence, which is complementary with the DNA.

Kazunari Matsumura, Masayuki Endo, Makoto Komiyama

Corrigenda2021 Enzymatic Synthesis of Diadenosine 5',5'''-P¹,P⁴-Tetraphosphate (Ap₄A) Analogues by Stress Protein LysU

Maria-Elena Theoclitou, Talal S. H. El-Thaher, Andrew D. Miller

2021 Synthetic Approaches to [n](3,5)-Troponophanes. Novel Rearrangements of 10,10-Dichloro-1,2,6,7,8,9-hexahydro-4a,9a-methano-5H-benzocyclohepten-2-one

Martin G. Banwell, Robert W. Gable, John H. Ryan, Maureen F. Mackay

2021 **Anion Recognition by Novel Ruthenium(II)
Bipyridyl Calix[4]arene Receptor Molecules**

Paul D. Beer, Zheng Chen, Alistair J. Goulden,
Alan Grieve, Dusan Heseck, Fridrich Szemes,
Trevor Wear

2022 **Ribonuclease Mimic: Zn²⁺ Promoted Cleavage of
C8-Histamino-r(U_pA) proceeds through 2',3'-
cUMP as Intermediate**

Thazha P. Prakash, Krishna N. Ganesh

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 Wear, Trevor, 2021
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 White, Andrew J. P., 1943
 Williams, David J., 1943
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 Yoshida, Satohiro, 1951
 Yumoto, Keisuke, 1997
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 Zhu, Chunsheng, 1965
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