

JOURNAL OF THE CHEMICAL SOCIETY

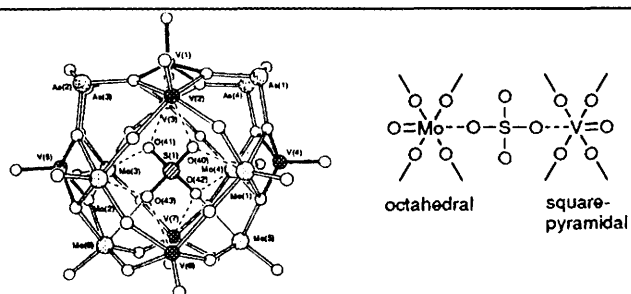
Chemical Communications

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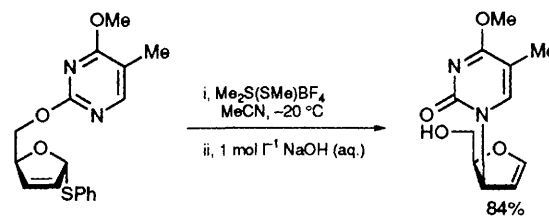
- 2539 **[As₄Mo₆V₇O₃₉(SO₄)⁴⁻: A Species with an Unusual Structure and a Model for the Different Host–Guest Properties of Poly-vanadates and -molybdates**

A. Müller, E. Krickemeyer, S. Dillinger, H. Bögge, A. Stämmler



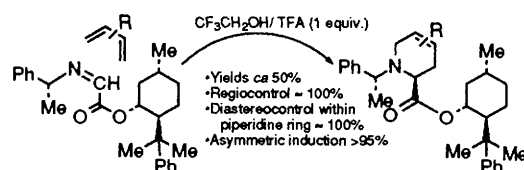
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Keiko Sujino, Hideyuki Sugimura



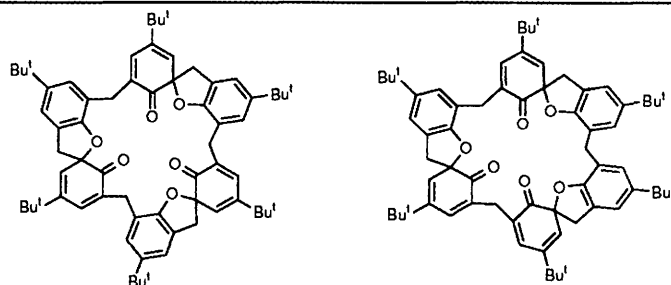
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Patrick D. Bailey, Derek J. Londebrough, Timothy C. Hancox, John D. Heffernan, Andrew B. Holmes



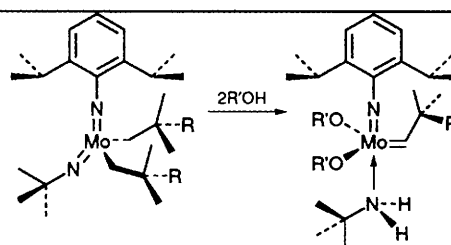
- 2545 **Large Macrocyclic Rings with Complex Architectures: Polyspirodienone Calix[6]arene Derivatives**

Flavio Grynszpan, Silvio E. Biali



- 2547 **A Versatile Route to Well-defined Molybdenum Metathesis Catalysts via Mixed Imido Precursors: The Molecular Structure of [Mo(N-2,6-Prⁱ₂C₆H₃)(N-Bu^t)(CH₂CMe₃)₂]**

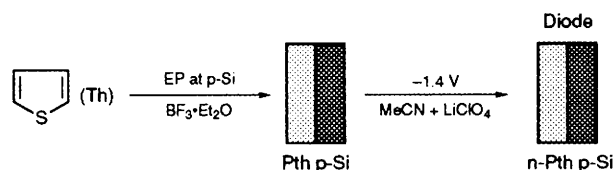
Andrew Bell, William Clegg, Philip W. Dyer, Mark R. J. Elsegood, Vernon C. Gibson, Edward L. Marshall



A new approach to well-defined metathesis catalysts based upon selective imido ligand protonation is described

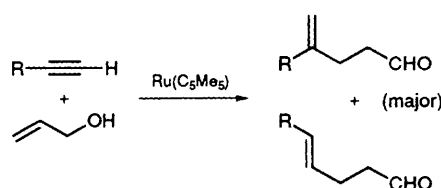
- 2549 **Electrochemical Fabrication of a P-type Silicon–Polythiophene p–n Junction Diode**

Gaoquan Shi, Bo Yu, Gi Xue, Shi Jin, Cun Li



- 2551 **Ruthenium Catalysed Synthesis of Unsaturated Acetals and Aldehydes via C–C Bond Coupling of Alkynes with Allyl Alcohol**

Sylvie Dérien, Pierre H. Dixneuf



- 2553 **Light-assisted Formation of Free Patterns of Colour Images on ZnO Film prepared by Ultrasonic Spray Pyrolysis**

Yutaka Harima, Yao-Dong Wang, Koji Matsumoto, Kazuo Yamashita

ZnO films prepared on ITO by ultrasonic spray pyrolysis are examined as semiconducting electrodes using photoelectrolytic micelle disruption (PMD) which is based on the combination of an electrolytic micelle disruption method and a photoelectrochemical reaction on semiconductors. Relatively high photoresponses of the ZnO electrodes, thus prepared, enables PMD experiments under much lower intensities of UV light than in the case of TiO₂ films reported earlier to be carried out. Film formation on ZnO is feasible without any electrical connection to the ZnO electrodes when illuminated with intense UV light.

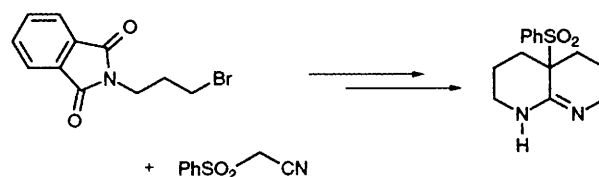
- 2555 **Activation of Carbon Dioxide by a Silica-supported Platinum–Tin Bimetallic Complex**

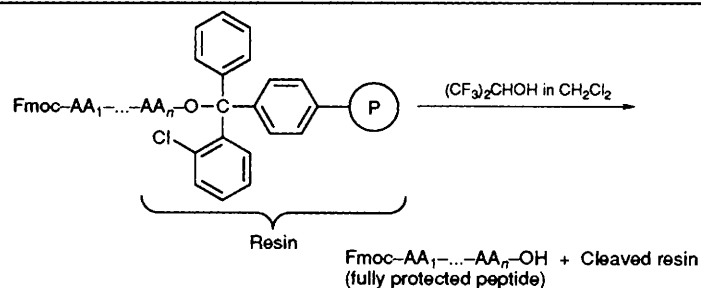
Jordi Llorca, Pilar Ramírez de la Piscina, Joaquim Sales, Narcís Homs

CO₂ and ethylene coordinate simultaneously to silica-supported *cis*-[PtCl(SnCl₃)(PPh₃)₂] as evidenced by *in situ* FT-IR spectroscopy; a band at 2339 cm⁻¹ indicates the coordination of CO₂ without loss of linearity. The coupling reaction between CO₂ and ethylene over the silica-supported Pt–Sn bimetallic complex is observed at 393 K and 42 bar.

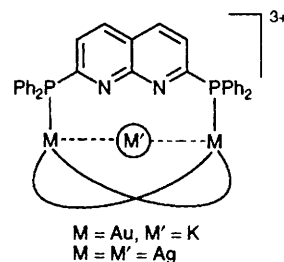
- 2557 **6-Phenylsulfonyl-2,10-diazabicyclo[4.4.0]dec-1-ene—a Readily Accessible, Prototypical Bicyclic Amidine for Studies in Molecular Recognition and Catalysis**

Máire A. Convery, Anthony P. Davis, Ciaran J. Dunne, John W. MacKinnon

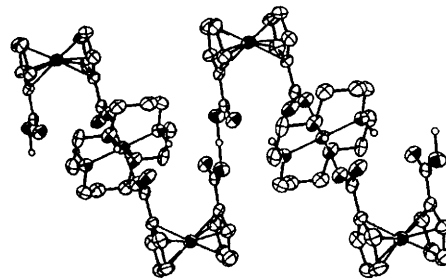


2559 **A New Reagent for the Cleavage of Fully Protected Peptides synthesised on 2-Chlorotrityl Chloride Resin**Ralf Bollhagen, Monika Schmiedberger,
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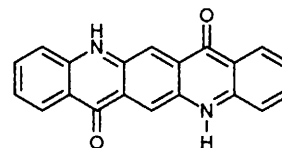
Rouh-Huey Uang, Chi-Keung Chan, Shie-Ming Peng, Chi-Ming Che

2563 **Strict Self-assembly of [Fe(cyclam)]³⁺ and [Hydrogen-bis-(1,1'-Ferrocenedicarboxylate)]³⁻ into a Novel Mixed-valent One-dimensional Polymer containing an Fe^{III}N₄O₂ Chromophore**

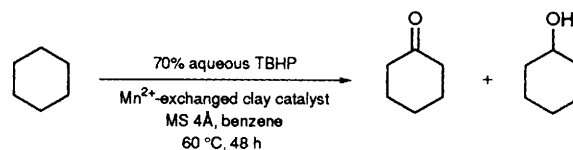
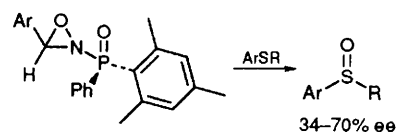
Sean D. Christie, S. Subramanian, L. K. Thompson, M. J. Zaworotko

2565 **The Crystal Structure of Quinacridone: An Archetypal Pigment**

G. D. Potts, W. Jones, J. F. Bullock, S. J. Andrews, S. J. Maginn

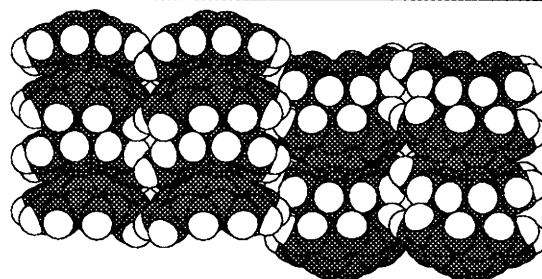
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2569 **Optically Active *N*-Phosphinoyloxaziridines: Preparation and Chiral Oxygen Transfer to Prochiral Sulfides**W. Brian Jennings, Michael J. Kochanewycz,
Carl J. Lovely, Derek R. Boyd

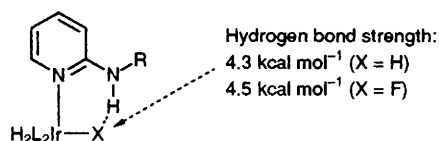
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Andrzej Sygula, Haskell E. Folsom, Renata Sygula, Atteya H. Abdourazak, Zbigniew Marcinow, Frank R. Fronczek, Peter W. Rabideau



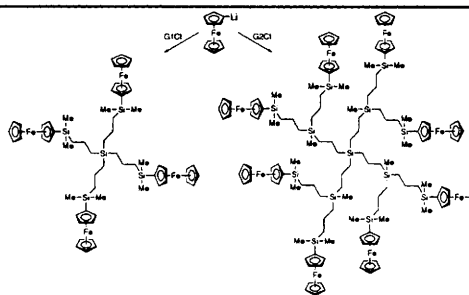
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Eduardo Peris, Jesse C. Lee Jr., Robert H. Crabtree



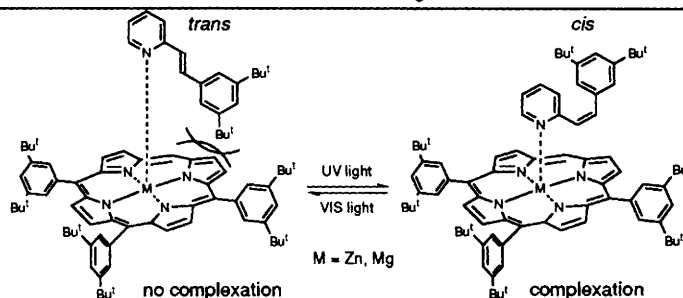
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Beatriz Alonso, Isabel Cuadrado, Moisés Morán, José Losada



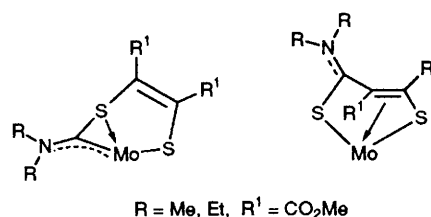
2577 **Photoswitchable Complexation of Metalloporphyrins**

Yûki Iseki, Shohei Inoue



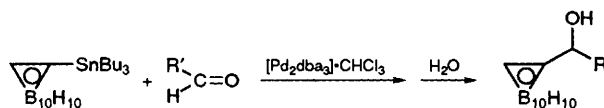
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Charles G. Young, Xue F. Yan, Bronwyn L. Fox, Edward R. T. Tiekink



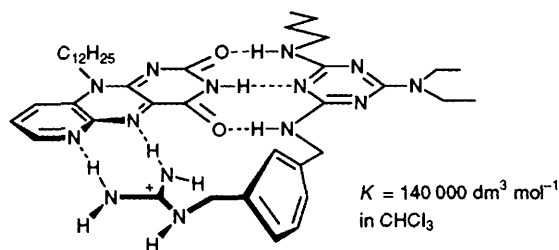
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Hiroyuki Nakamura, Naoki Sadayori, Masaru Sekido, Yoshinori Yamamoto



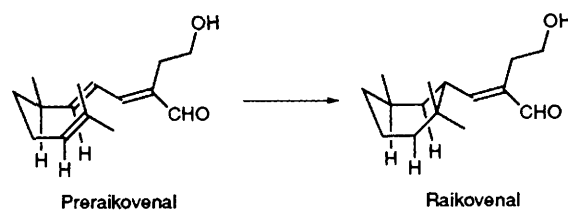
- 2583 **A Flavin Receptor. Strong Binding Ability of a Melamine Derivative bearing a Guanidinium Ion for 6-Azaflavin: Five Hydrogen Bonds Formed in Chloroform**

Norio Tamura, Takeshi Kajiki, Tatsuya Nabeshima, Yumihiko Yano



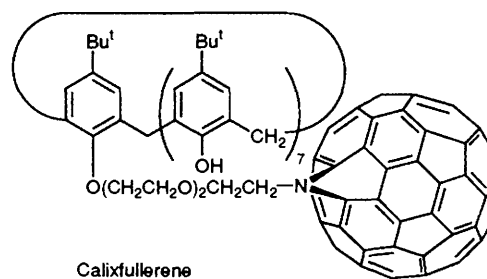
- 2585 **Raikovenal, a New Sesquiterpenoid Favouring Adaptive Radiation of the Marine Ciliate *Euplotes raikovi*, and its Putative Biogenetic Precursor, Preraikovenal**

Graziano Guella, Fernando Dini, Fabrizio Erra, Francesco Pietra



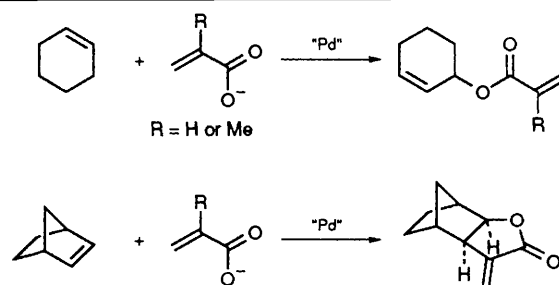
- 2587 **Synthesis and Spectroscopic Properties of C_{60} Functionalized Calix[8]arene (Calixfullerene)**

Michinori Takeshita, Tsuyoshi Suzuki, Seiji Shinkai



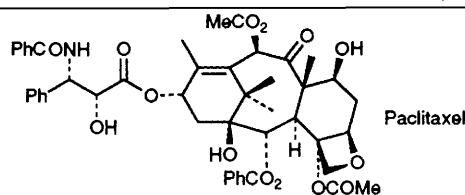
- 2589 **Acryloxy and Methacryloxy Palladation of Alkenes**

Nicolas Ferret, Laurence Mussate-Mathieu, Jean-Pierre Zahra, Bernard Waegell



- 2591 **Direct, Stereoselective Synthesis of the Protected Paclitaxel (Taxol) Side Chain and High-yield Transformation to Paclitaxel**

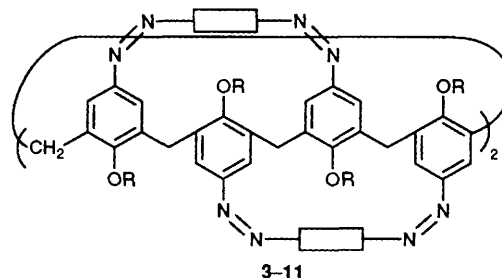
Alice M. Kanazawa, Jean-Noél Denis, Andrew E. Greene



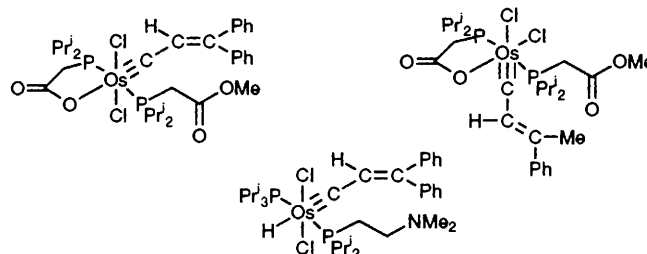
The *p*-methoxybenzylidene-protected paclitaxel (Taxol) side chain has been prepared by a novel approach and used to obtain paclitaxel in excellent overall yield.

- 2593 **Molecular Diagnostics: Synthesis of New Chromogenic Calix[8]arenes as Potential Reagents for Detection of Amines**

H. Mohindra Chawla, K. Srinivas

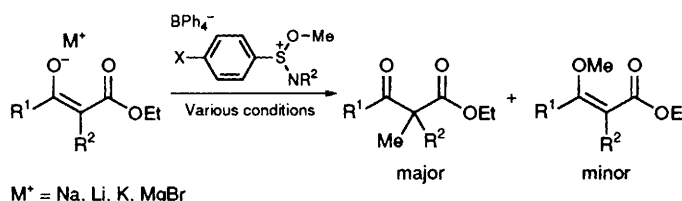


- 2595 **Carbyne(dichloro) and Carbyne(dichloro)hydrido Osmium Complexes from Alkyne Precursors**



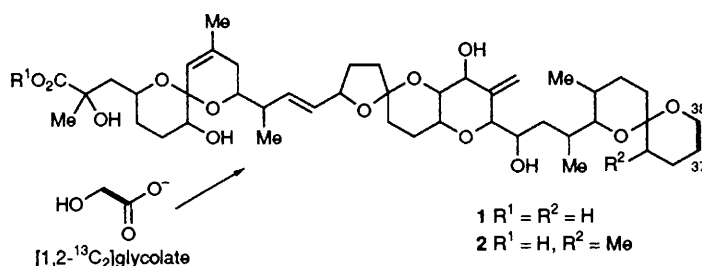
Birgit Weber, Paul Steinert, Bettina Windmüller,
Justin Wolf, Helmut Werner

- 2597 **Selective Alkylation of β -Ketoester Enolates using *O*-Methyl Aminosulfoxonium salts; the First Example of C-alkylation using Sulfoxonium Salt Electrophiles**



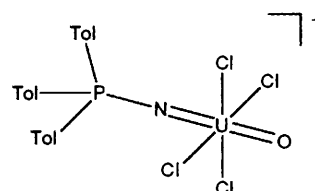
I. Fraser Pickersgill, Allan P. Marchington,
Christopher M. Rayner

- 2599 **Biosynthetic Origin of C-37 and C-38 in the Polyether Toxins Okadaic Acid and Dinophysistoxin-1**



Judy Needham, Jack L. McLachlan, John A.
Walter, Jeffrey L. C. Wright

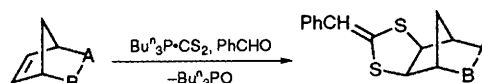
- 2601 **Synthesis and Crystal Structure of an Analogue of the Uranyl(VI) Ion, containing a Linear O=U=N-Group**



Dean R. Brown, Robert G. Denning, Richard H.
Jones

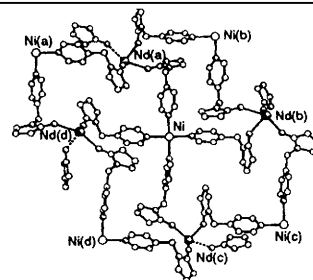
Tol = C_6H_4Me-m

- 2603 **Cycloaddition of $Bu^u_3P \cdot CS_2$: Direct One-pot Conversion of Strained Double Bonds to 2-Alkylidene-1,3-dithiolanes**

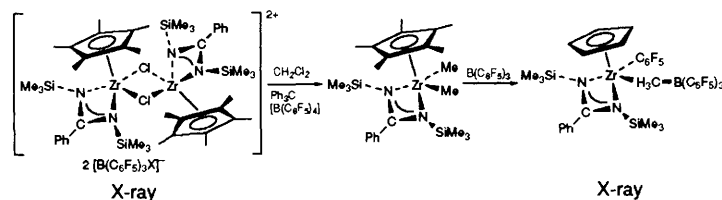


R. Alan Aitken, Tracy Massil, Swati V. Raut

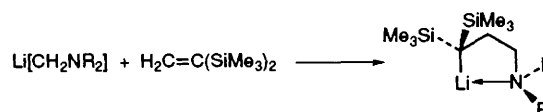
- 2605 **Use of Heterometal Combinations to construct Very Large Ring Frameworks; Synthesis and Structural Characterisation of the 36-Membered Ring Compound $\{[NiNd(4\text{-picolylpyrrolidin-2-one})_4(\text{NCS})_2(\text{NO}_3)_3]_n\}$**



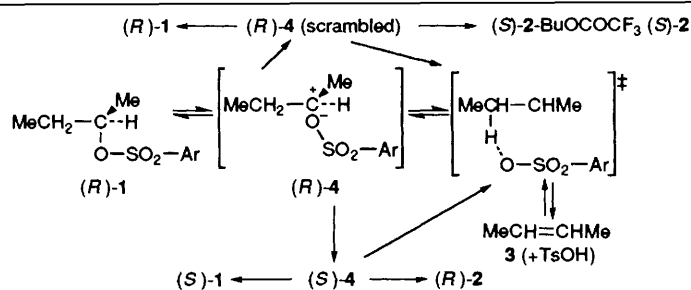
David M. L. Goodgame, Stephan Menzer,
Andrew T. Ross, David J. Williams

2607 Unexpected Reactions of Pentafluorophenylboron Compounds with η -Cyclopentadienyl-(benzamidinato)zirconium Derivatives

Rafael Gómez, Malcolm L. H. Green, Jane L. Haggitt

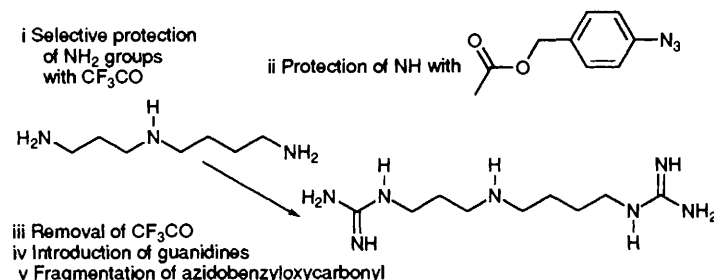
2609 Convenient Large Scale *in situ* Synthesis of 3-(*N,N*-dialkylamino)-1,1-bis(trimethylsilyl)propyllithium: Source of a New Sterically Demanding γ -Donor functionalized Alkyl Ligand

Markus M. Schulte, Roland A. Fischer

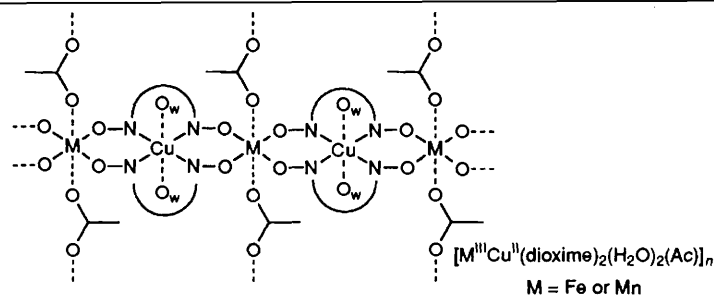
2611 Toluene-*p*-sulfonic Acid-catalysed Reaction of But-1-ene with Trifluoroacetic Acid: Return and Elimination from the Intimate Ion Pair

Dan Fărcașiu

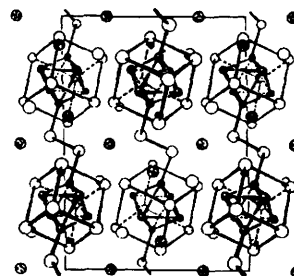
2613 Discrimination of Spermidine Amino Functions by a New Protecting Group Strategy; Application to the Synthesis of Guanidinylated Polyamines, Including Hirudonine



Andrew Mitchinson, Bernard T. Golding, Roger J. Griffin, Mary C. O'Sullivan

2615 Ferro- and Ferri-magnetism in Oximato-bridged $M^{III}Cu^{II}$ Chains ($M = Mn$ and Fe). A Molecular Based Ferromagnet with $T_c = 9$ K: $[Mn^{III}Cu^{II}\text{-bis}(1,2\text{-cyclohexanedioneoximato})(\text{acetato})(\text{H}_2\text{O})_2]$ 

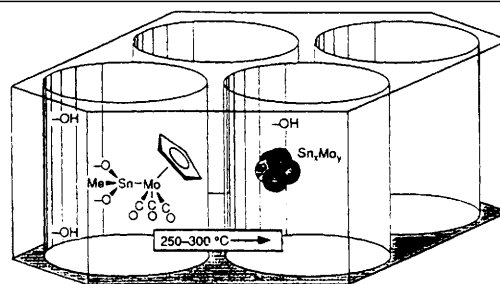
Francesc LLoret, Rafael Ruiz, Beatriz Cervera, Isabel Castro, Miguel Julve, Juan Faus, José Antonio Real, Fernando Sapiña, Yves Journaux, Jean Christophe Colin, Michel Verdaguer

2617 Re_6S_{12} , a New Binary Rhenium Cluster Chalcogenide

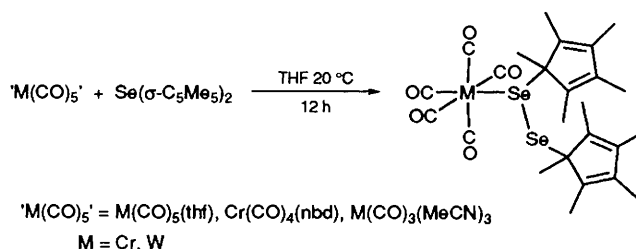
Alexandr Nemudry, Robert Schöllhorn

2619 **Reactivity of a Trimethylstannyl Molybdenum Complex in Mesoporous MCM-41**

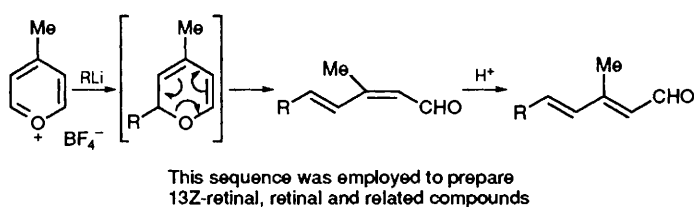
Christian Huber, Karin Moller, Thomas Bein

2621 **Pentamethylcyclopentadienylselenium Derivatives: Synthesis and X-Ray Crystal Structures of $[M(CO)_5\{Se_2(\sigma-C_5Me_5)_2\}]$ (M = Cr, W)**

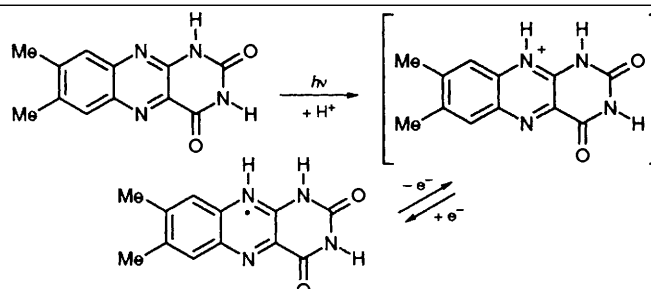
C. Matthew Bates, Christopher P. Morley, Massimo Di Vaira

2623 **A New Approach to Retinoids via Organometallic Addition to Pyrylium Salts**

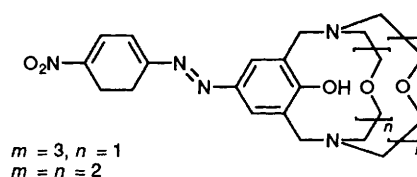
Karl Hemming, Edna Faria De Medeiros, Richard J. K. Taylor

2625 **A Novel Optical Transistor Device based on Photo-induced Proton transfer Reactions**

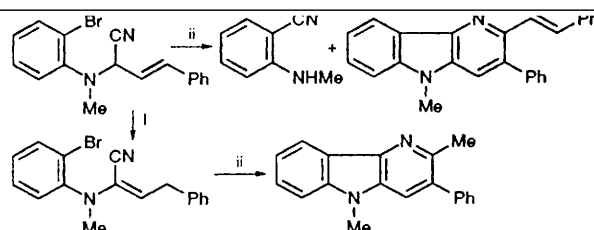
Yang Hwang Zen, Chong Mou Wang

2627 **Selective Chromogenic Reagents for Lead**

Andrew Mason, Andrew Sheridan, Ian O. Sutherland, Anthony Vincent

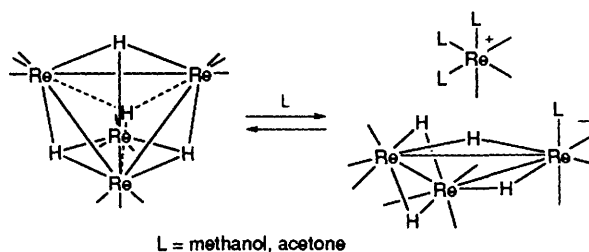
These cryptands are selective and sensitive chromogenic reagents for Pb^{2+} 2629 **Palladium-catalysed Regioselective Cyclisation of Unsaturated Bromoanilinoalkenenitriles**

Chau-Chen Yang, Pei-Jiun Sun, Jim-Min Fang

Reagents and conditions: i, Bu^4OK (1 equiv.), $Bu^4OH-THF$, 0 °C, 1 h; ii, $Pd(OAc)_2$, Ph_3P , Et_3N , DMF, 100 °C, 6 h

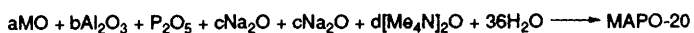
- 2631 **Easily Reversible Ionic Fragmentation of a Tetrahedral Unsaturated Rhenium Cluster, a Reappraisal of the Reaction of $[\text{Re}_4(\mu_3\text{-H})_4(\text{CO})_{12}]$ with Methanol**

Tiziana Beringhelli, Giuseppe D'Alfonso



- 2633 **Synthesis of MnAPO-20 and CoAPO-20 using Tetrahedral Metal Species**

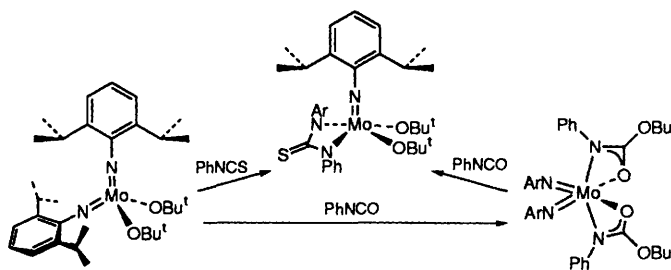
Catherine V. A. Duke, Susan J. Hill, Craig D. Williams



where $M = \text{Mn or Co}$, added as $[\text{M}_4\text{N}]_2[\text{MCl}_4]$
 $0 \leq a, b, c, d \leq 2.6$

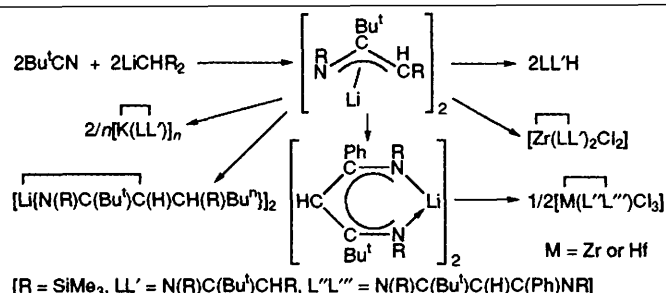
- 2635 **Isocyanate versus Isothiocyanate Insertion into Alkoxo and Imido Ligands**

Vernon C. Gibson, Carl Redshaw, William Clegg, Mark R. J. Elsegood



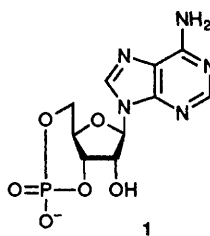
- 2637 **Transformation of the Bis(trimethylsilyl)methyl into Aza-allyl and β -Diketiminato Ligands; the X-Ray Structures of $[\text{Li}\{\text{N}(\text{R})\text{C}(\text{Bu}^t)\text{CH}(\text{R})\}]_2$ and $[\text{Zr}\{\text{N}(\text{R})\text{C}(\text{Bu}^t)\text{CH}(\text{C}(\text{Ph})\text{N}(\text{R}))\}]_2\text{Cl}_3$ ($\text{R} = \text{SiMe}_3$)**

Peter B. Hitchcock, Michael F. Lappert, Dian-Sheng Liu



- 2639 **Observation of Large Solvent Effects on the ^{31}P Shielding Tensor of a Cyclic Nucleotide**

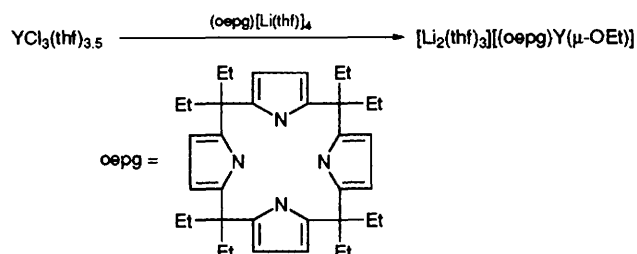
Ioannis P. Gerothanassis, Patrick J. Barrie, C. Tsanaktsidis



^{31}P solid-state NMR measurements on frozen solutions of adenosine 3',5'-cyclic monophosphate 1 show that the chemical shift has a significant dependence on hydrogen bonding.

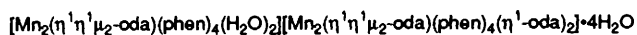
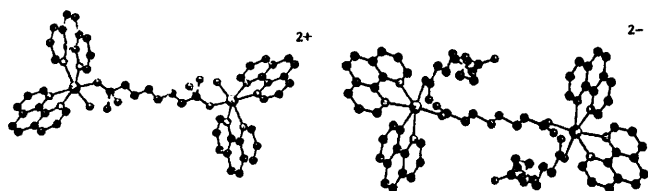
- 2641 **Preparation and Reactivity of the First Yttrium Porphyrinogen Complex**

Jayne Jubb, Sandro Gambarotta, Robbert Duchateau, Jan H. Teuben



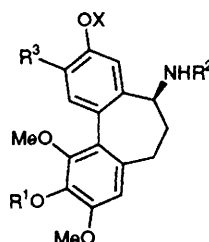
- 2643 **Synthesis and Structure of the Mn^{II,II} Complex Salt**
[Mn₂(η¹η¹μ₂-oda)(phen)₄(H₂O)₂][Mn₂(η¹η¹μ₂-oda)(phen)₄(η¹-oda)₂]·4H₂O (odaH₂ = Octanedioic acid): a Catalyst for H₂O₂ Disproportionation

Michael T. Casey, Malachy McCann, Michael Devereux, Martin Curran, Christine Cardin, Moira Convery, Valerie Quillet, Charlie Harding



- 2647 **Total Syntheses of the Structures Assigned to Salimine and Jerusalemine, Alkaloids from *Colchicum decaisnei* Boiss. (Liliaceae)**

Martin G. Banwell, Marie-Anne Fam, Robert W. Gable, Ernest Hamel



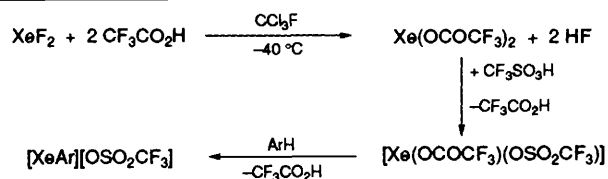
1 X = R¹ = Me, R² = COMe, R³ = CO₂H
 (alleged structure of salimine)

2 X = R² = Me, R¹ = H, R³ = OH
 (jerusalemine)

20 X = H, R¹ = Me, R² = COMe, R³ = CO₂Me
 (more likely structure of salimine)

- 2651 **Synthesis of Arylxenon Trifluoromethanesulfonates via Electrophilic Substitution of F- and CF₃-substituted Aromatics**

Dieter Naumann, Wieland Tyrra, Robert Gnann, Dieter Pfolk



Ar = 2,4,6-F₃C₆H₂, 3,5-(CF₃)₂C₆H₃, 2-F-5-CF₃C₆H₃, 2-F-5-NO₂C₆H₃

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Journal of Materials Chemistry

Synthesis, structures, properties and applications of materials, particularly those associated with advanced technology

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