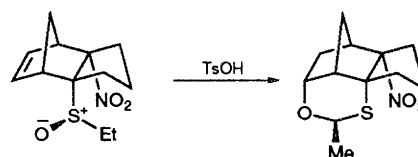
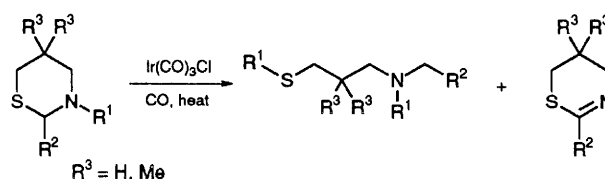
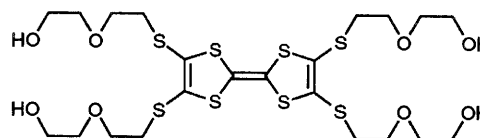
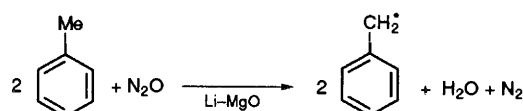


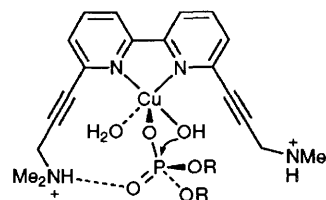
JOURNAL OF THE CHEMICAL SOCIETY

**Chemical Communications**Number 12  
1995**CONTENTS****1197 Intramolecular Pummerer Reaction of  $\gamma,\delta$ -Unsaturated Sulfinyl Compounds**Hitoshi Abe, Junko Itani, Chieko Masunari,  
Setsuo Kashino, Takashi HarayamaA novel preparation of 1,3-oxathiane derivatives through the Pummerer rearrangement of  $\gamma,\delta$ -unsaturated sulfinyl compounds, and its plausible mechanism are described.**1199 Unprecedented Iridium Catalysed Group Transfer Reactions of 1,3-Thiazanes**Howard Alper, Cathleen Crudden, Kanjai  
Khumtaveeporn**1201 Stacked Supramolecular Structures involving Hydrogen-bonded Networks in Highly Functionalised Tetrathiafulvalene Derivatives**Andrei S. Batsanov, Niels Svenstrup, Jesper Lau,  
Jan Becher, Martin R. Bryce, Judith A.K.  
Howard**1203 The Formation of Gas Phase Benzyl Radicals during the Reaction of Toluene and Nitrous Oxide over Li-MgO and Sr-La<sub>2</sub>O<sub>3</sub> Coupling Catalysts**

Mingting Xu, Jack H. Lunsford

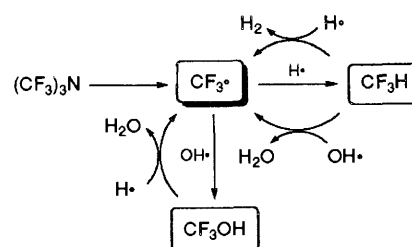
## 1205 Metal–Ammonium Cooperativity in Phosphodiester Hydrolysis

Endre Kövári, Jutta Heitker, Roland Krämer

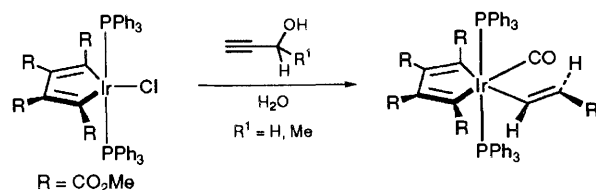


## 1207 New Fire Suppression Mechanism of Perfluoroalkylamines

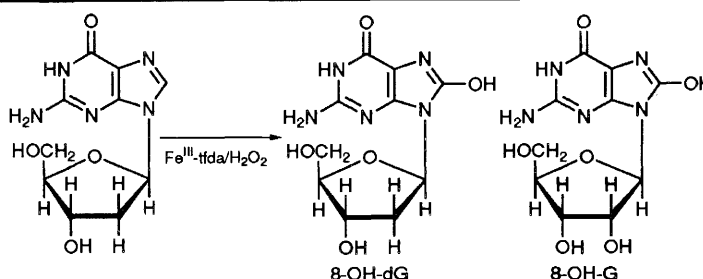
Haruhiko Fukaya, Taizo Ono, Takashi Abe

1209 Prop-2-ynyl Alcohol as a Precursor to the  $\eta^1$ -Ethenyl Ligand

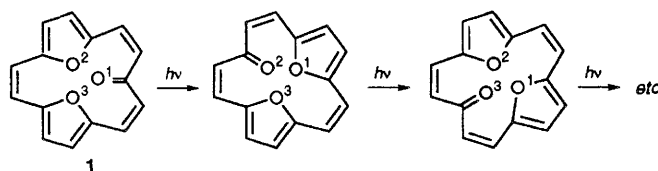
Joseph M. O'Connor, Kristin Hiibner

1211 High Activity of an Fe–tfda (tfda = 2-aminomethyltetrahydrofuran-*N,N*-diacetic acid) Complex for Hydroxylation at the Aromatic and Alkane Rings of 2'-Deoxyguanosine in the Presence of Hydrogen Peroxide

Yuzo Nishida, Sayo Ito

1213 Diepoxy[15]annulenones undergo Photochemical Carbonyl-O/Divinyl ether-O Transportation Rearrangements: Mechanistic Probing of the Rearrangement Sequences Facilitated by  $^{13}\text{C}/^{17}\text{O}$  NMR Spectroscopy

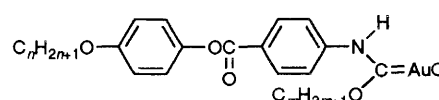
Haru Ogawa, Yuko Ohokubo, Yasuyoshi Nogami, Yuko Kato, Toshitaka Koga, Taiji Imoto



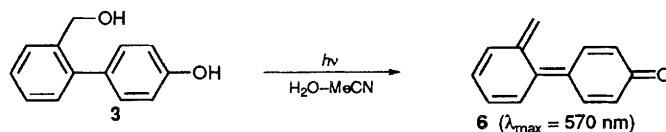
The three oxygen atoms of diepoxy[15]annulenone **1** are transposable in the fifteen membered ring *via* sequential rearrangement on irradiation.

## 1215 Liquid-crystalline Gold(I)–Carbene Complexes

Rie Ishii, Takeshi Kaharu, Nadine Pirio, Shi-Wei Zhang, Shigetoshi Takahashi

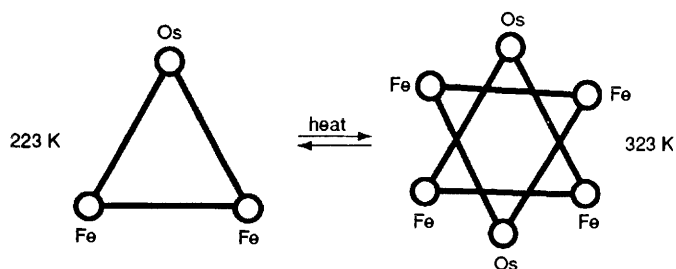


- 1217 **Charge Polarization in Photoexcited Alkoxy-substituted Biphenyls: Formation of Biphenyl Quinone Methides**



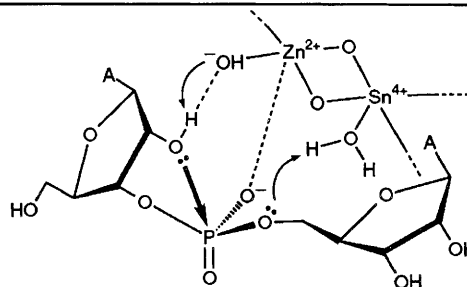
Yijian Shi, Peter Wan

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



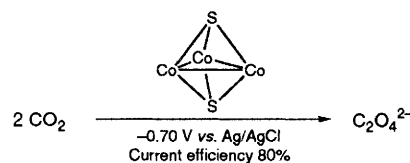
Dario Braga, Louis J. Farrugia, Fabrizia Grepioni, Andrew Senior

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



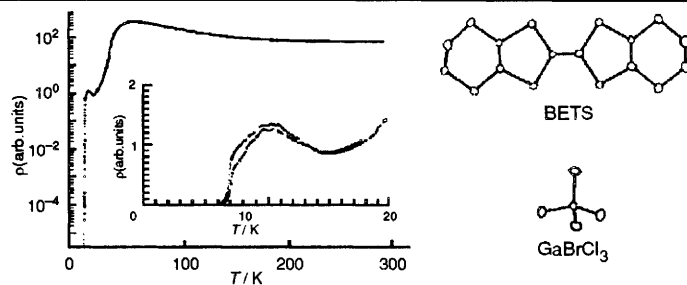
Makoto Irisawa, Naoya Takeda, Makoto Komiyama

- 1223 **Remarkable Decrease in Overpotential of Oxalate Formation in Electrochemical  $\text{CO}_2$  Reduction by a Metal-Sulfide Cluster**



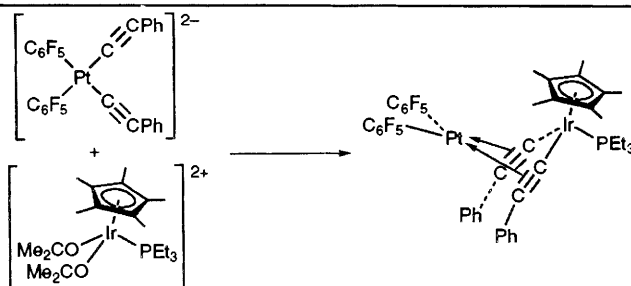
Yoshinori Kushi, Hirotaka Nagao, Takanori Nishioka, Kiyoshi Isobe, Koji Tanaka

- 1225 **A New Organic Superconductor,  $\lambda$ -BETS $_2$ GaBrCl $_3$  [BETS = bis(ethylenedithio)tetraselenafulvalene]**

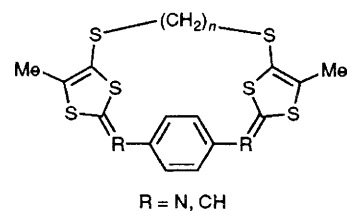


Hayao Kobayashi, Hideto Tomita, Toshio Naito, Hisashi Tanaka, Akiko Kobayashi, Taro Saito

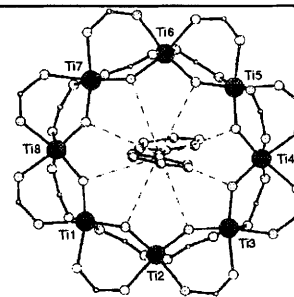
- 1227  **$[\text{cis-Pt}(\text{C}_6\text{F}_5)_2(\text{C}\equiv\text{CPh})_2]^{2-}$  as a Double Alkynyl Transfer Reagent. Synthesis and Characterization of the Ir(III)–Pt(II) Tweezer Complex  $\{[(\eta^5\text{-C}_5\text{Me}_5)(\text{PEt}_3)\text{Ir}(\text{C}\equiv\text{CPh})_2]\text{Pt}(\text{C}_6\text{F}_5)_2\}$**



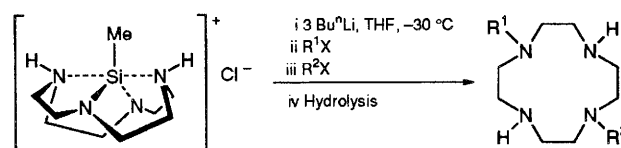
Jesús R. Berenguer, Juan Forniés, Elena Lalinde, Francisco Martínez

1229 **Novel Extended  $\pi$ -Redox Cage-like Systems and their Conformational Versatility**

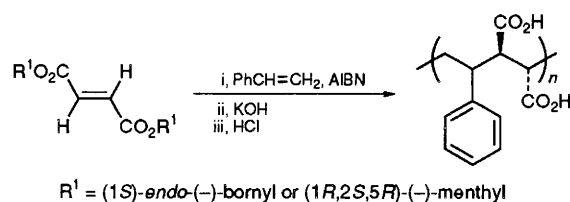
Philippe Hascoat, Dominique Lorcy, Albert Robert, Kamal Boubekeur, Patrick Batail, Robert Carlier, André Tallec

1231 **An Octameric Titanium Oxo Metallacycle with Host-Guest Interactions**

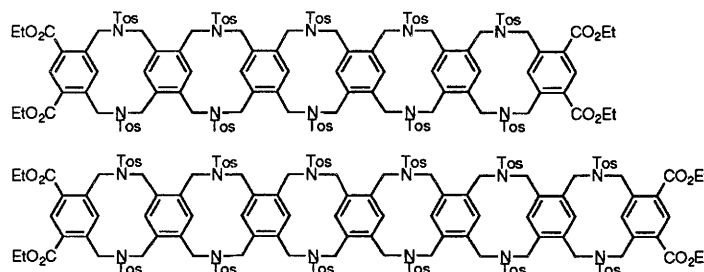
Hazel Barrow, David A. Brown, Nathaniel W. Alcock, Howard J. Clase, Malcolm G. H. Wallbridge

1233 **Mono- and  $N^1, N^7$ -Dialkylation of 1,4,7,10-Tetraazacyclododecane via Silicon Protection**

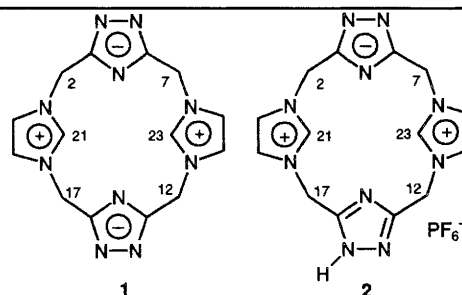
Annaïg Roignant, Isabelle Gardinier, H el ene Bernard, Jean-Jacques Yaouanc, Henri Handel

1235 **Facile Synthesis of Vinyl Copolymers with Optical Activity Arising from the Configuration of Stereogenic Carbon Atoms in the Main Chain**

I. H. Donnelly, P. Kambouris, D. C. Nonhebel, D. C. Sherrington

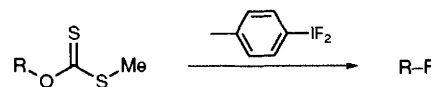
1237 **An Iterative Synthetic Approach to Nanometre-scale Molecular Ribbons**

Stefan Breidenbach, Stefan Ohren, Martin Nieger, Fritz V ogtle

1239 **Non-classical [14]Metaheterophanes Containing Betaine Units. Synthesis, NMR Spectroscopy and X-Ray Crystallography**

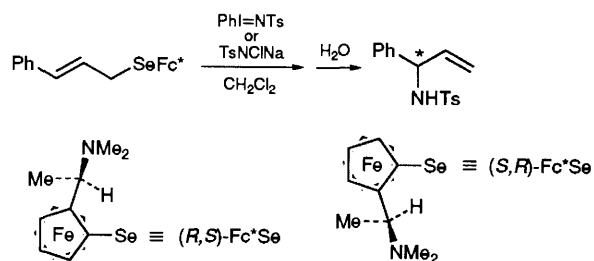
Ermitas Alcalde, Montserrat Alemany, Llu sa P erez-Garc a, Mat as L. Rodr iguez

- 1241 **Observations on the Reaction of Xanthate Esters with 4-Methyl(difluoroiodo)benzene: a New Method for the Conversion of Alcohols to Alkyl Fluorides**



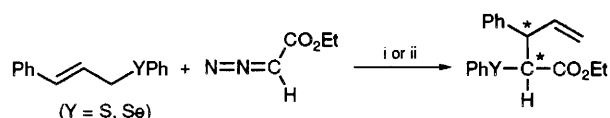
Mark J. Koen, Frederic Le Guyader, William B. Motherwell

- 1243 **High Chirality Transfer in Chiral Selenimides via [2,3]Sigmatropic Rearrangement**



Yoshiaki Nishibayashi, Takashi Chiba, Kouichi Ohe, Sakae Uemura

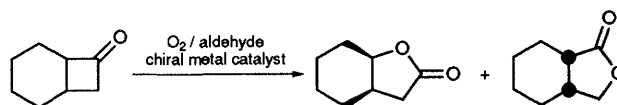
- 1245 **The First Example of Enantioselective Carbenoid Addition to Organochalcogen Atoms: Application to [2,3]Sigmatropic Rearrangement of Allylic Chalcogen Ylides**



i, cat. Cu<sup>I</sup>: CuOTf (5 mol%) + bisoxazoline (5 mol%)  
ii, cat. Rh<sup>II</sup>: Rh<sub>2</sub>(5*S*-MEPY)<sub>4</sub> (1 mol%)

Yoshiaki Nishibayashi, Kouichi Ohe, Sakae Uemura

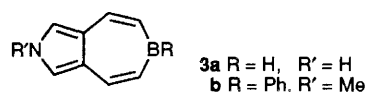
- 1247 **Metal-catalysed Enantiospecific Aerobic Oxidation of Cyclobutanones**



Optically active  $\gamma$ -butyrolactones with up to 95% e.e. are obtained by metal-catalysed aerobic oxidation.

Carsten Bolm, Gunther Schlingloff

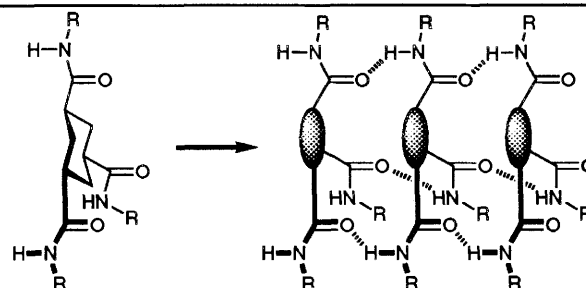
- 1249 **5-Methyl-1-phenylpyrrolo[3,4-*d*]borepin: a Polarized Aromatic Molecule**



Yoshikazu Sugihara, Ryuta Miyatake, Ichiro Murata, Akira Imamura

Compound **3b** is a polar aromatic system, whose properties confirm our guide for construction of stable heteroaromatics.

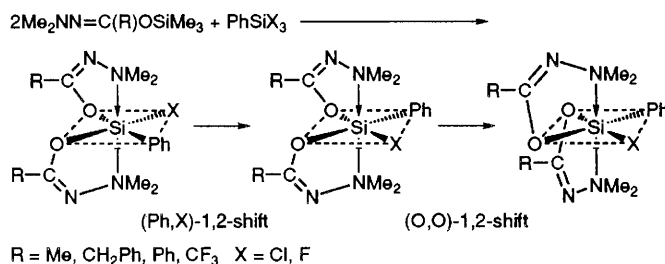
- 1251 **Hydrogen-bonding Control of Molecular Aggregation: Self-complementary Subunits lead to Rod-shaped Structures in the Solid State**



Erkang Fan, Ji Yang, Steven J. Geib, Timothy C. Stoner, Michael D. Hopkins, Andrew D. Hamilton

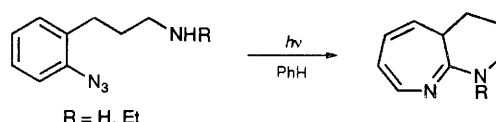
- 1253 **Stereodynamics of Neutral Six-coordinate Silicon Chelates: Evidence for Two Non-dissociative Rate Processes**

Inna Kalikhman, Daniel Kost, Morton Raban



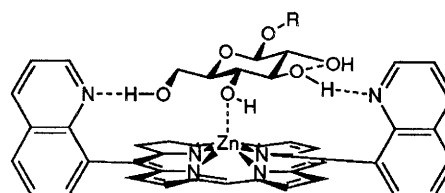
- 1255 **Formation of Bicyclic Azepines by Intramolecular Trapping of Didehydroazepines**

Shigeru Murata, Masaki Miwa, Hideo Tomioka



- 1257 **Molecular Recognition of Carbohydrates by Functionalized Zinc Porphyrins**

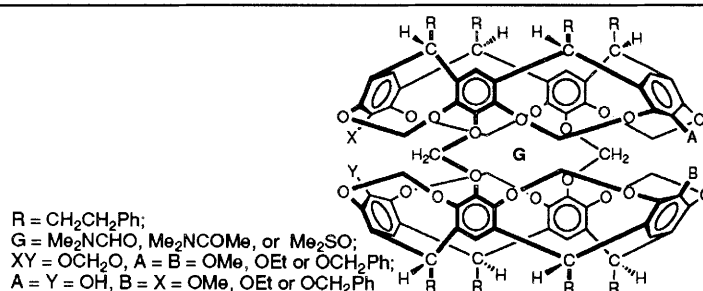
Tadashi Mizutani, Takeshi Murakami, Noriyoshi Matsumi, Takuya Kurahashi, Hisanobu Ogoshi



One of the possible structures of a glucopyranoside-porphyrin complex.

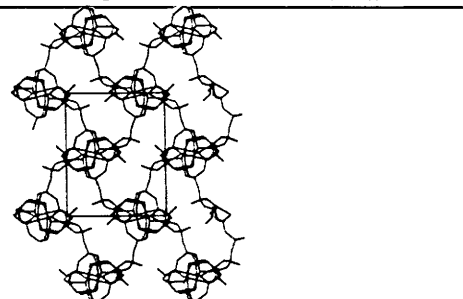
- 1259 **Comparisons of Activation Energies for Dimethyl Sulfoxide Rotations in the Inner Phase of Seven Carcerands**

Siavash K. Kurdistani, Timothy A. Robbins, Donald J. Cram



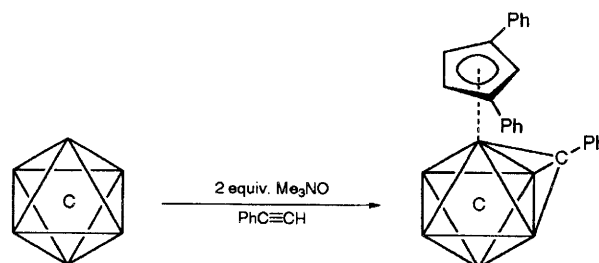
- 1261 **Synthesis and Structure of a Novel Open-framework Gallium Phosphate [Me<sub>2</sub>NH-(CH<sub>2</sub>)<sub>2</sub>NHMe<sub>2</sub>]<sup>2+</sup>[Ga<sub>4</sub>P<sub>5</sub>O<sub>20</sub>H]<sup>2-</sup>·H<sub>2</sub>O**

A. M. Chippindale, R. I. Walton, C. Turner



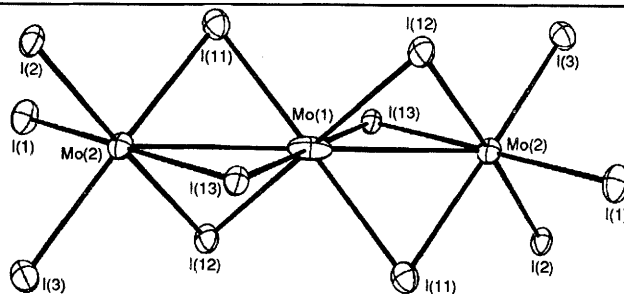
- 1263 **Oligomerisation of Phenylacetylene at a Polynuclear Site; the Molecular Structure of [Ru<sub>6</sub>C(CO)<sub>12</sub>(μ<sub>2</sub>-CO)(η<sup>5</sup>-C<sub>5</sub>H<sub>3</sub>Ph<sub>2</sub>)(μ<sub>3</sub>-CPh)]**

Jane L. Haggitt, Brian F. G. Johnson, Alexander J. Blake, Simon Parsons



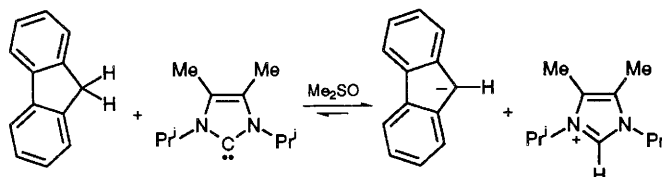
- 1265 **Linear Face-sharing Trioctahedral  $[\text{Mo}_3\text{I}_{12}]^{3-}$  by Spontaneous thf Loss from  $[\text{MoI}_4(\text{thf})_2]^-$ : Structure, Bonding and Magnetic Properties**

James C. Fettinger, Sundeep P. Mattamana, Charles J. O'Connor, Rinaldo Poli, Ghadi Salem



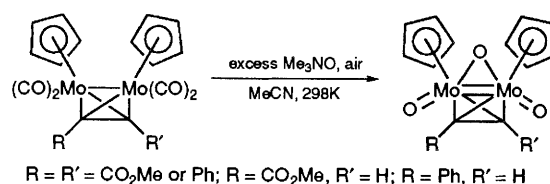
- 1267 **Stable Carbenes as Strong Bases**

Roger W. Alder, Paul R. Allen, Stuart J. Williams



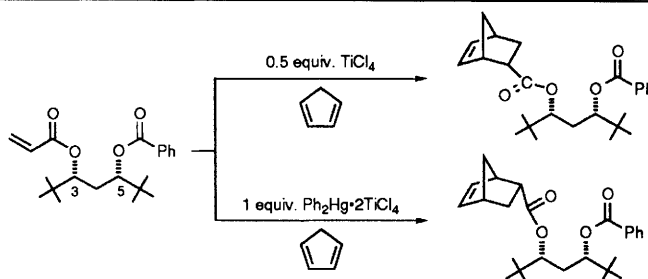
- 1269 **Use of Trimethylamine *N*-Oxide in the Controlled Air-oxidation of Metal Carbonyl Complexes; Synthesis and Crystal Structure of a Novel Organometallic Oxo Complex of Dimolybdenum**

Joanne C. Stichbury, Martin J. Mays, Paul R. Raithby, Moira-Ann Rennie, Michael R. Fullalove



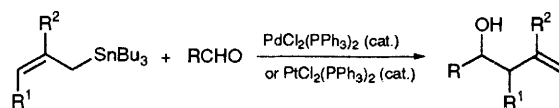
- 1271 **Asymmetric Diels–Alder Reactions of TMHD-acrylate using  $\text{TiCl}_4 \cdot (\text{Ar}_n\text{Hg})_m$  Complexed Lewis Acids**

Isao Kadota, Katsumi Kobayashi, Naoki Asao, Yoshinori Yamamoto



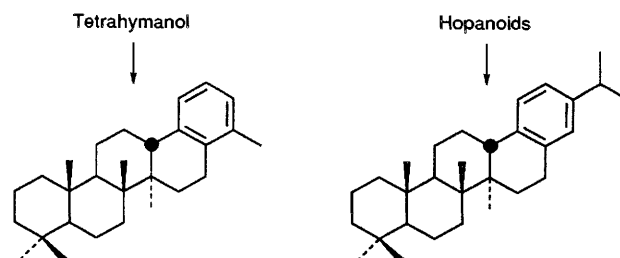
- 1273 **Palladium- and Platinum-catalysed Addition of Aldehydes with Allylstannanes**

Hiroyuki Nakamura, Naoki Asao, Yoshinori Yamamoto



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

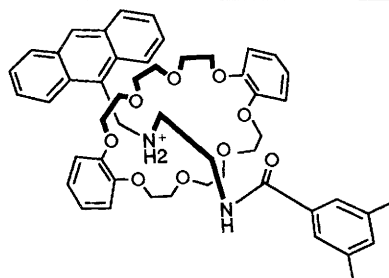
Philippe Schaeffer, Jean-M. Trendel, Pierre Albrecht





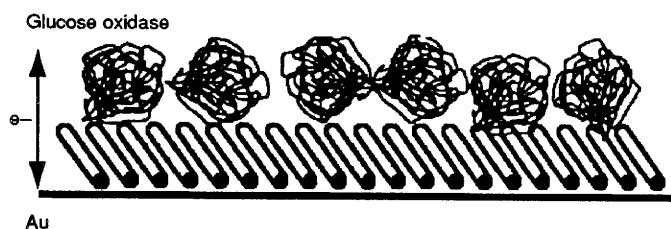


- 1289 **Gaining Control over Molecular Threading: Benefits of Second Coordination Sites and Aqueous–Organic Interfaces in Rotaxane Synthesis**



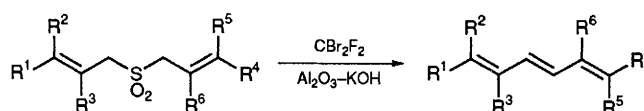
Alexander G. Kolchinski, Daryle H. Busch,  
Nathaniel W. Alcock

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



Li Jiang, Calum J. McNeil, Jonathan M. Cooper

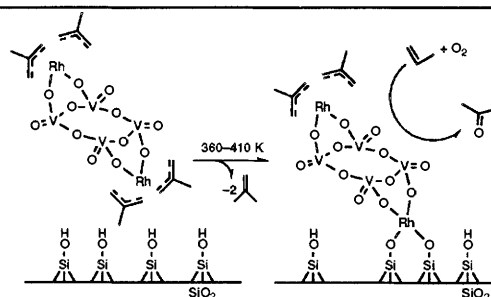
- 1297 **Stereoselective Synthesis of Substituted 1,3,5-Hexatrienes from Diallylic Sulfones**



Xiao-Ping Cao, Tze-Lock Chan, Hak-Fun Chow,  
Jingren Tu

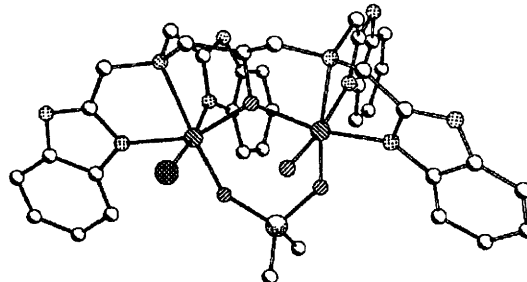
1,3,5-Hexatrienes can be synthesized in excellent yields and with good stereoselectivity from diallylic sulfones employing a modified Ramberg–Bäcklund reaction.

- 1301 **Molecular Modelling of Supported Metal Catalysts: SiO<sub>2</sub>-grafted [({η<sup>3</sup>-C<sub>4</sub>H<sub>7</sub>)<sub>2</sub>Rh]<sub>2</sub>V<sub>4</sub>O<sub>12</sub>] and [Rh(C<sub>2</sub>Me<sub>5</sub>)<sub>4</sub>V<sub>6</sub>O<sub>19</sub>] are Catalytically Active in the Selective Oxidation of Propene to Acetone**



Kazuhiro Takahashi, Masatsugu Yamaguchi,  
Takafumi Shido, Hiroko Ohtani, Kiyoshi Isobe,  
Masaru Ichikawa

- 1305 **The First Diferric Model Compound for the Uteroferrin–Arsenato Complex**



Burkhard Eulering, Friedhelm Ahlers, Frank  
Zippel, Michael Schmidt, Hans-Friedrich Nolting,  
Bernt Krebs

### Corrigenda

- 1309 **Synthetic Receptors with Preorganized Cavities that Complex Prednisolone-21-acetate**

Peter Timmerman, Erik A. Brinks, Willem  
Verboom, David N. Reinhoudt

1309 **Intercalation of Nitric Oxide into Double-layered Cuprate Superstructure**

Masato Machida, Hirotaka Murakami, Takeshi Kitsubayashi, Tsuyoshi Kijima

1309 **Observations on Selectivity Reversal during Chiral Auxiliary-directed Asymmetric Nucleophile Additions to Arene–Manganese Tricarbonyl Complexes**

Anthony J. Pearson, Maria C. Milletti, Ping Y. Zhu

1309 **Scission of Ethyne into Two Methyldiyne Ligands: C≡C vs. C–H Bond Activation**

Harry Adams, Louise J. Gill, Michael J. Morris

---

**AUTHOR INDEX**

- Abe, Hitoshi, 1197  
 Abe, Takashi, 1207  
 Achilefu, Samuel, 1279  
 Adams, Harry, 1309  
 Ahlers, Friedhelm, 1305  
 Albrecht, Pierre, 1275  
 Alcalde, Ermitas, 1239  
 Alcock, Nathaniel W., 1231, 1289  
 Alder, Roger W., 1267  
 Alemany, Montserrat, 1239  
 Allen, Paul R., 1267  
 Alper, Howard, 1199  
 Andrievsky, Grigoriy V., 1281  
 Asao, Naoki, 1271, 1273  
 Barrow, Hazel, 1231  
 Barton, Lawrence, 1285  
 Barzilay, Claudia M., 1287  
 Batail, Patrick, 1229  
 Batsanov, Andrei S., 1201  
 Becher, Jan, 1201  
 Berenguer, Jesús R., 1227  
 Bernard, Hélène, 1233  
 Black, Janc R., 1277  
 Blake, Alexander J., 1263  
 Bolm, Carsten, 1247  
 Boubekour, Kamal, 1229  
 Bould, Jonathan, 1285  
 Braga, Dario, 1219  
 Breidenbach, Stefan, 1237  
 Brinks, Erik A., 1309  
 Brown, David A., 1231  
 Bryce, Martin R., 1201  
 Busch, Daryle H., 1289  
 Cao, Xiao-Ping, 1297  
 Carlier, Robert, 1229  
 Champness, Neil R., 1277  
 Chan, Tze-Lock, 1297  
 Chiang, Long Y., 1283  
 Chiba, Takashi, 1243  
 Chippindale, A. M., 1261  
 Chow, Hak-Fun, 1297  
 Clase, Howard J., 1231  
 Cooper, Jonathan M., 1293  
 Cram, Donald J., 1259  
 Crudden, Cathleen, 1199  
 Donnelly, I. H., 1235  
 Eulerling, Burkhard, 1305  
 Fan, Erkang, 1251  
 Farrugia, Louis J., 1219  
 Fettinger, James C., 1265  
 Forniés, Juan, 1227  
 Fukaya, Haruhiko, 1207  
 Fullalove, Michael R., 1269  
 Gardinier, Isabelle, 1233  
 Geib, Steven J., 1251  
 Gill, Louise J., 1309  
 Grepioni, Fabrizia, 1219  
 Gross, Zeev, 1287  
 Haggitt, Jane L., 1263  
 Hamilton, Andrew D., 1251  
 Handel, Henri, 1233  
 Harayama, Takashi, 1197  
 Hascoat, Philippe, 1229  
 Heitker, Jutta, 1205  
 Hiibner, Kristin, 1209  
 Hopkins, Michael D., 1251  
 Howard, Judith A.K., 1201  
 Ichikawa, Masaru, 1301  
 Imamura, Akira, 1249  
 Imoto, Taiji, 1213  
 Infante, Maria-Rosa, 1279  
 Irisawa, Makoto, 1221  
 Ishii, Rie, 1215  
 Isoe, Kiyoshi, 1223, 1301  
 Itani, Junko, 1197  
 Ito, Sayo, 1211  
 Jiang, Li, 1293  
 Johnson, Brian F. G., 1263  
 Kadota, Isao, 1271  
 Kaharu, Takeshi, 1215  
 Kalikhman, Inna, 1253  
 Kambouris, P., 1235  
 Kashino, Setsuo, 1197  
 Kato, Yuko, 1213  
 Khumtaveporn, Kanjai, 1199  
 Kijima, Tsuyoshi, 1309  
 Kitsubayashi, Takeshi, 1309  
 Kobayashi, Akiko, 1225  
 Kobayashi, Hayao, 1225  
 Kobayashi, Katsumi, 1271  
 Koen, Mark J., 1241  
 Koga, Toshitaka, 1213  
 Kolchinski, Alexander G., 1289  
 Komiyama, Makoto, 1221  
 Kosevich, Marina V., 1281  
 Kost, Daniel, 1253  
 Kövári, Endre, 1205  
 Krämer, Roland, 1205  
 Krebs, Bernt, 1305  
 Kurahashi, Takuya, 1257  
 Kurdistani, Siavash K., 1259  
 Kushi, Yoshinori, 1223  
 Lalinde, Elena, 1227  
 Lau, Jesper, 1201  
 Le Guyader, Frederic, 1241  
 Levason, William, 1277  
 Lin, Jaw-Town, 1283  
 Lorcy, Dominique, 1229  
 Lu, Fung-Jou, 1283  
 Lunsford, Jack H., 1203  
 Machida, Masato, 1309  
 McNeil, Calum J., 1293  
 Manresa, Maria-Angeles, 1279  
 Martinez, Francisco, 1227  
 Masunari, Chieko, 1197  
 Matsumi, Noriyoshi, 1257  
 Mattamana, Sundeep P., 1265  
 Maugras, Michel, 1279  
 Mays, Martin J., 1269  
 Milletti, Maria C., 1309  
 Miwa, Masaki, 1255  
 Miyatake, Ryuta, 1249  
 Mizutani, Tadashi, 1257  
 Molina, Laurence, 1279  
 Morris, Michael J., 1309  
 Motherwell, William B., 1241  
 Murakami, Hirotsuka, 1309  
 Murakami, Takeshi, 1257  
 Murata, Ichiro, 1249  
 Murata, Shigeru, 1255  
 Nagao, Hirotsuka, 1223  
 Naito, Toshio, 1225  
 Nakamura, Hiroyuki, 1273  
 Nieger, Martin, 1237  
 Nishibayashi, Yoshiaki, 1243, 1245  
 Nishida, Yuzo, 1211  
 Nishioka, Takanori, 1223  
 Nogami, Yasuyoshi, 1213  
 Nolting, Hans-Friedrich, 1305  
 Nonhebel, D. C., 1235  
 O'Connor, Charles J., 1265  
 O'Connor, Joseph M., 1209  
 Ogawa, Haru, 1213  
 Ogoshi, Hisanobu, 1257  
 Ohe, Kouichi, 1243, 1245  
 Ohokubo, Yuko, 1213  
 Ohren, Stefan, 1237  
 Ohtani, Hiroko, 1301  
 Ono, Taizo, 1207  
 Parsons, Simon, 1263  
 Pearson, Anthony J., 1309  
 Perani, Angelo, 1279  
 Pérez-García, Lluïsa, 1239  
 Pirio, Nadine, 1215  
 Poli, Rinaldo, 1265  
 Raban, Morton, 1253  
 Raithby, Paul R., 1269  
 Rath, Nigam P., 1285  
 Reid, Gillian, 1277  
 Reinhoudt, David N., 1309  
 Rennie, Moira-Ann, 1269  
 Robbins, Timothy A., 1259  
 Robert, Albert, 1229  
 Rodriguez, Matias L., 1239  
 Roignant, Annaïg, 1233  
 Saito, Taro, 1225  
 Salem, Ghadi, 1265  
 Schaeffer, Philippe, 1275  
 Schlingloff, Gunther, 1247  
 Schmidt, Michael, 1305  
 Selve, Claude, 1279  
 Senior, Andrew, 1219  
 Shelkovsky, Vadim S., 1281  
 Sherrington, D. C., 1235  
 Shi, Yijian, 1217  
 Shido, Takafumi, 1301  
 Stebe, Marie-José, 1279  
 Stichbury, Joanne C., 1269  
 Stoner, Timothy C., 1251  
 Sugihara, Yoshikazu, 1249  
 Svenstrup, Niels, 1201  
 Takahashi, Kazuhiro, 1301  
 Takahashi, Shigetoshi, 1215  
 Takeda, Naoya, 1221  
 Tallec, André, 1229  
 Tanaka, Hisashi, 1225  
 Tanaka, Koji, 1223  
 Timmerman, Peter, 1309  
 Tomioka, Hideo, 1255  
 Tomita, Hideto, 1225  
 Trendel, Jean-M., 1275  
 Tu, Jingren, 1297  
 Turner, C., 1261  
 Uemura, Sakae, 1243, 1245  
 Vashchenko, Lyudmila A., 1281  
 Verboom, Willem, 1309  
 Vögtle, Fritz, 1237  
 Vovk, Oleh M., 1281  
 Wallbridge, Malcolm G. H., 1231  
 Walton, R. I., 1261  
 Wan, Peter, 1217  
 Williams, Stuart J., 1267  
 Xu, Mingting, 1203  
 Yamaguchi, Masatsugu, 1301  
 Yamamoto, Yoshinori, 1271, 1273  
 Yang, Ji, 1251  
 Yaouanc, Jean-Jacques, 1233  
 Zhang, Shi-Wei, 1215  
 Zhu, Ping Y., 1309  
 Zippel, Frank, 1305



#### **COPYRIGHT LICENCE**

Since April 1st 1994 all authors submitting work for publication in Royal Society of Chemistry journals have been required to sign an exclusive copyright licence, to formalise the agreement within the Society. The simplified copyright form reproduced overleaf replaces that published with the Instructions for Authors in Issue No. 1.(January) 1995. The form may be photocopied. All future submissions of papers for publication should be accompanied by a completed form, without which publication cannot proceed.

## Notes on Copyright for Contributors to the Journals of the Royal Society of Chemistry ("the RSC")

These notes apply to the following RSC primary journals:

- 1) Journal of the Chemical Society:
  - Chemical Communications
  - Dalton Transactions
  - Faraday Transactions
  - Perkin Transactions 1
  - Perkin Transactions 2
- 2) The Analyst
- 3) Analytical Proceedings
- 4) Journal of Analytical Atomic Spectrometry
- 5) Journal of Materials Chemistry
- 6) Faraday Discussions
- 7) Journal of Chemical Research

**IMPORTANT: Please complete and return to the RSC the following Copyright Licence. The RSC will not publish any contribution until it has received a duly completed Copyright Licence.**

*Note 1* These Notes accompany and should be read alongside the RSC's Copyright Licence ("the Copyright Licence", attached).

*Note 2* It is our policy to require authors to grant to the RSC an exclusive licence in respect of their contributions to the RSC's primary journals. **We therefore ask you to complete the Copyright Licence and return it to us so that we are able to publish your paper.**

We have three main reasons for requiring this Licence:

- (a) We require it as our authority to publish.
- (b) It helps us to protect the material we publish against unauthorised copying and other misuse.
- (c) It ensures that requests from third parties to republish all or part of the material we publish can be efficiently dealt with. Such requests are increasingly significant as electronic delivery media become more important.

*Note 3* If you are an employee of the US Government and your contribution was written in that capacity the Copyright Licence will take effect only to the extent allowed by US law.

*Note 4* If you are an employee of the British Government and your contribution was written in that capacity then the Copyright Licence will take effect as a *non-exclusive* licence and copyright in your contribution will be reserved to the Crown.

*Note 5* Even though the Copyright Licence is exclusive, we will agree to any reasonable request which you (or the copyright owner, if you do not own the copyright) make to us in writing for permission to republish your contribution. However, we will require such republication to be accompanied by a suitable acknowledgement of first publication by the RSC.

*Note 6* If we notify you (or the copyright owner, if you do not own the copyright) in writing that we will not be publishing your contribution then the Copyright Licence will immediately terminate.

*Note 7* The RSC holds personal information on a computerised database for publications administration purposes. We may from time to time send you material relevant to your research interests, to provide information about the RSC's products, or possibly to seek your advice on new products. If you do not wish to receive this or remain on our mailing list please contact the Journals Administrative Officer.

Paper Number:.....(RSC's use)

## THE ROYAL SOCIETY OF CHEMISTRY ("the RSC")

### COPYRIGHT LICENCE

The Work (title and brief description of the paper or other contribution submitted):

The Author (name and address)

If the Author does not own the copyright in the Work, state who the Owner is (giving name and address) and state why the Author does not own the copyright in the Work (eg the Author wrote the Work in the course of employment by the Owner):

If the Author is the Owner then, where used below, "the Owner" means the Author.

1. In consideration of the RSC evaluating the Work for publication by the RSC (and publishing the Work if it so decides) the Owner grants to the RSC the exclusive right and licence throughout the world to edit, adapt, translate, reproduce and publish the Work in all formats, in all media and by all means (whether now existing or in future devised).

Such licence is for the full term of copyright in the Work throughout the world (including all renewals, extensions and reversions).

Such licence is freely transferable by the RSC and includes the right to sub-licence.

2. The Owner warrants that:

(a) the Work is the original work of the Author and not copied (in whole or in part) from any other work or matter or (if the Work includes copyright works of persons other than the Author) the Work is substantially the original work of the Author and all necessary permissions have been obtained for use of such copyright works of such other persons.

(b) the Work has not been and will not prior to publication by the RSC be published.

(c) the exercise of the rights granted to the RSC by this Licence will not infringe the copyright of any person or result in any breach of confidentiality or the breach of any contract or of any law.

3. Notwithstanding anything to the contrary contained in this Licence:

(a) this Licence shall take effect as a non-exclusive licence in respect of any parts of the Work as were written by an Author in the course of employment by the British Government.

(b) this Licence shall take effect only to the extent permitted by the laws of the United States of America if and to the extent that the Work or any part of the Work was written by an Author in the course of employment by the United States Government.

4. The RSC will agree to any reasonable request submitted to it in writing by the Owner for republication of the Work, but provided that the Owner ensures that any such republication is accompanied by an acknowledgement (in a form acceptable to the RSC) of first publication of the Work by the RSC.

5. If the RSC notifies the Owner in writing that it will not be publishing the Work then this Licence shall forthwith and automatically terminate (and all rights granted shall revert to the Owner).

6. This Licence shall be governed in all respects by English law.

SIGNED by the Owner or by someone duly authorised to sign for the Owner:

Signed :

Name : Date :