

# Chemistry Letters

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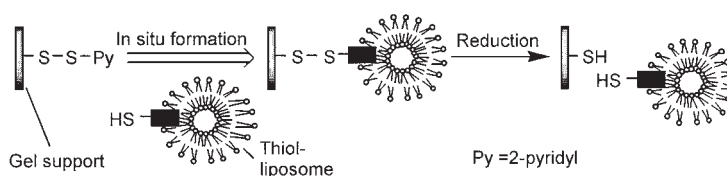
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416 **Liposome Immobilization on Polymer Gel Particles by in situ Formation of Covalent Linkages**

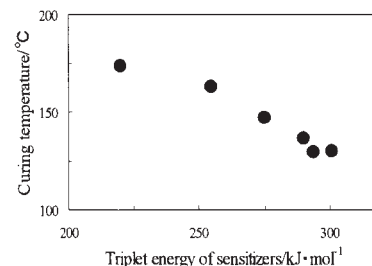
Immobilization of thiol-liposome on cross-linked polymer gel by in situ formation of disulfide linkage and detachment by reduction.



Md. Abdul Khaleque, Yukihisa Okumura, Satoshi Yabushita, and Michiharu Mitani

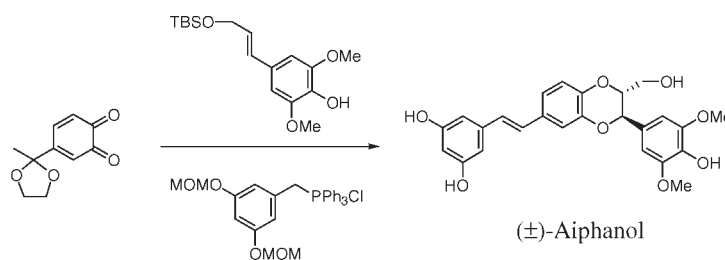
418 **Base Generation by the Photolysis of an Amineimide with Triplet-sensitizers and Its Use for an Epoxide/Thiol Curing System**

By combining an amineimide and triplet-sensitizers having triplet energy more than  $289 \text{ kJ}\cdot\text{mol}^{-1}$ , the curing of epoxide/thiol shifted to lower temperature after UV irradiation.



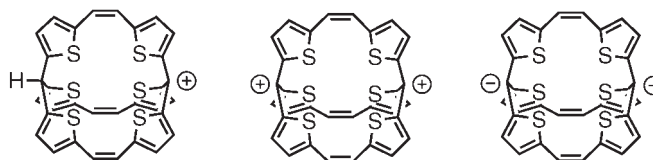
Shigeki Katogi, Masami Yusa, Masamitsu Shirai, and Masahiro Tsunooka

420 **Total Synthesis of ( $\pm$ )-Aiphanol, a Novel Cyclooxygenase-inhibitory Stilbenolignan**



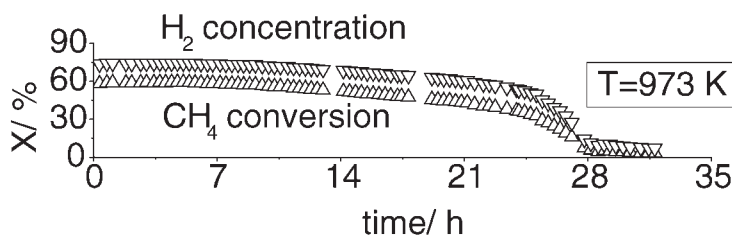
Atsuhito Kuboki, Toru Yamamoto, and Susumu Ohira

422 **Novel Monocation, Dication, and Dianion of a Cage Molecule, Trithienylmethanophane**



Hiroyuki Kurata, Kenji Haruki, Hiromichi Nakaminami, Takeshi Kawase, and Masaji Oda

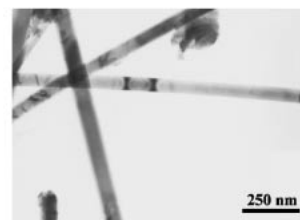
- 424 **Production of Hydrogen and Nanocarbon from Direct Decomposition of Undiluted Methane on High-nickel Ni-Cu-Alumina Catalysts**



Jiuling Chen, Xiumin Li, Yongdan Li, and Yongning Qin

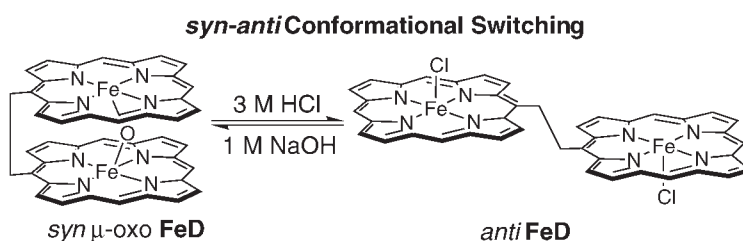
- 426 **Rapid Synthesis of SnSe Nanowires via an Ethylenediamine-assisted Polyol Route**

SnSe nanowires with high aspect ratio have been synthesized by a rapid ethylenediamine-assisted polyol (ENAP) route for the first time at low temperature.



Guozhen Shen, Di Chen, Xuan Jiang, Kaibin Tang, Yankuan Liu, and Yitai Qian

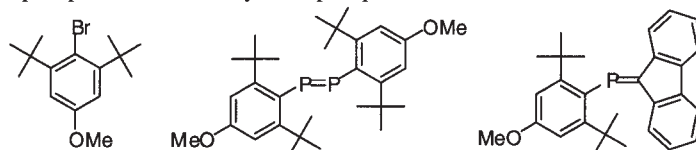
- 428 **An Acid-Base Controlled Molecular Switch. *syn-anti* Conformational Switching in a  $\mu$ -oxo Bis(Iron Porphyrin)**



Guy A. Hembury, Victor V. Borovkov, Juha M. Lintuluoto, and Yoshihisa Inoue

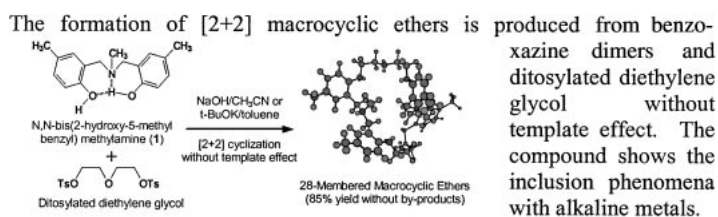
- 430 **Preparation and Properties of Sterically Protected Diphosphene and Fluorenylidene-phosphine Bearing the 2,6-Di-*tert*-butyl-4-methoxyphenyl Group**

A new bulky bromobenzene, 2-bromo-1,3-di-*tert*-butyl-5-methoxybenzene, was prepared and utilized to preparations of the corresponding diphosphene and fluorenylidene phosphine.



Kozo Toyota, Subaru Kawasaki, Akitake Nakamura, and Masaaki Yoshifuji

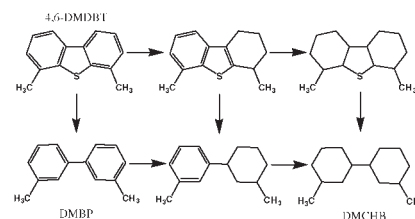
- 432 **A Simple, Effective, and Selective Synthesis Route without Template Effect (Part II) for [2 + 2] Difunctional 28-Membered Macrocyclic Ethers Based on Benzoxazine Dimers and Its Inclusion Phenomena with Metal Ions**



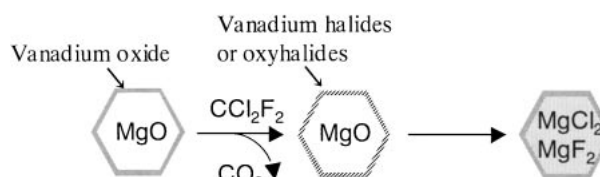
Suwabun Chirachanchai, Suttinun Phongtamrug, and Apirat Laobuthee

434 **Hydrodesulfurization of 4,6-DMDBT in the High Boiling Fraction of Gas Oil**

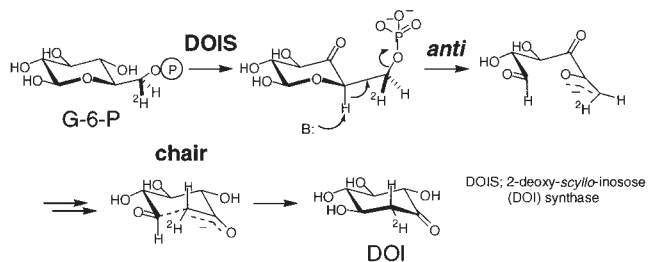
HDS of 4,6-DMDBT in a high boiling fraction of practical gas oil was proved to proceed principally through the hydrogenative route.



Ki-Hyouk Choi, Yozo Korai, and Isao Mochida

436 **Decomposition of Dichlorodifluoromethane with Simultaneous Halogen Fixation by Transition Metal Oxides Supported on Magnesium Oxide**

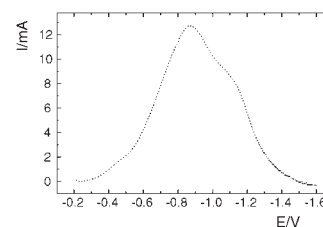
Tsukasa Tamai, Koji Inazu, and Ken-ichi Aika

438 **Reaction Stereochemistry of 2-Deoxy-scyllo-inosose Synthase, the Key Enzyme in the Biosynthesis of 2-Deoxystreptamine**

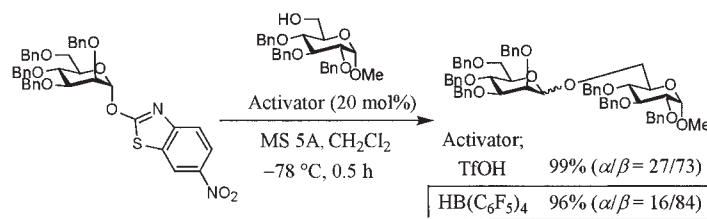
Eriko Nango, Fumitaka Kudo, Tadashi Eguchi, and Katsumi Kakinuma

440 **Electroreduction Behavior of Dinitrogen over Ruthenium Cathodic Catalyst**

Over chemically deposited ruthenium loaded on active carbon, dinitrogen was reduced electrochemically at ambient temperature and pressure in aqueous solution with relative high production rate.



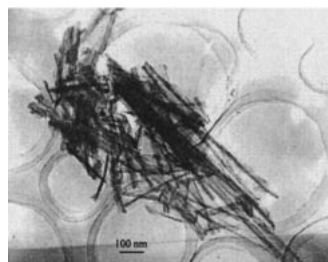
Shu-Yong Zhang, Xiu-Yun Zhang, Zuo-Shan Zhang, Yan Kong, and Shou-Nan Hua

442 **Catalytic and  $\beta$ -Stereoselective Mannosylation of Several Glycosyl Acceptors with Mannosyl 6-Nitro-2-benzothiazolate**

Takashi Hashihayata, Hiroki Mandai, and Teruaki Mukaiyama

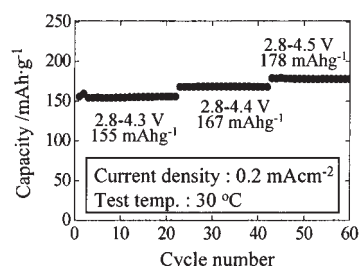
- 444 **Solvothermal Synthesis of  $\gamma$ -LiV<sub>2</sub>O<sub>5</sub> Nanorods as Cathode Material for Rechargeable Lithium Batteries**

Hai Yan Xu, Hao Wang, Zhi Qiang Song, Yao Wu Wang, Yong Cai Zhang, and Hui Yan

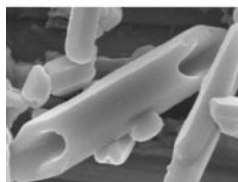


- 446 **Preparation of Layered Li[Ni<sub>1/2</sub>Mn<sub>1/2</sub>]O<sub>2</sub> by Ultrasonic Spray Pyrolysis Method**

S. H. Park, S. K. Kang, Y. C. Kang, Y. S. Lee, and Y. K. Sun



- 448 **Synthesis of Novel Selenium Tubular Structure**

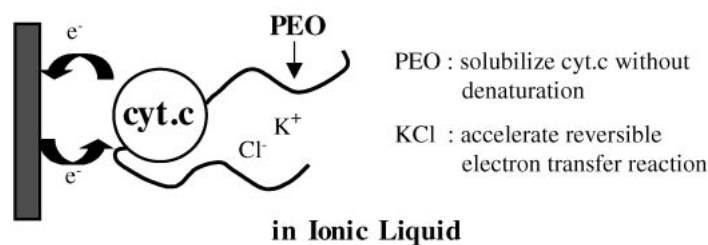


Tubular selenium has been synthesized successfully by reducing selenious acid with ascorbic acid in the presence of primary amines ( $C_nH_{2n+1}NH_2$  with  $10 \leq n \leq 16$ ) at room temperature.

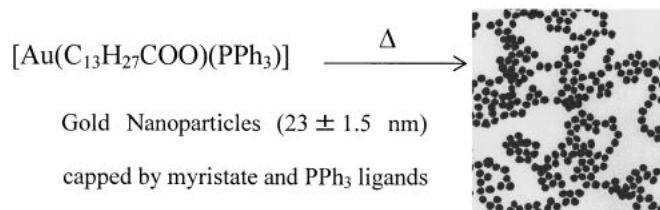
Yuan-tao Chen, Qiao-yu Sun, and Hu-lin Li

- 450 **Electron Transfer Process of Poly(ethylene oxide)-Modified Cytochrome c in Imidazolium Type Ionic Liquid**

Hiroyuki Ohno, Chiiko Suzuki, Kenta Fukumoto, Masahiro Yoshizawa, and Kyoko Fujita

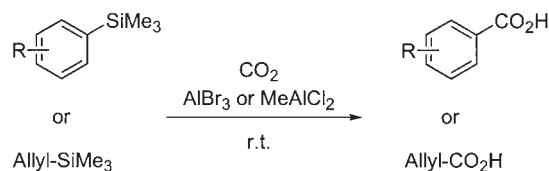


- 452 **New Type of Monodispersed Gold Nanoparticles Capped by Myristate and PPh<sub>3</sub> Ligands Prepared by Controlled Thermolysis of [Au(C<sub>13</sub>H<sub>27</sub>COO)(PPh<sub>3</sub>)]**



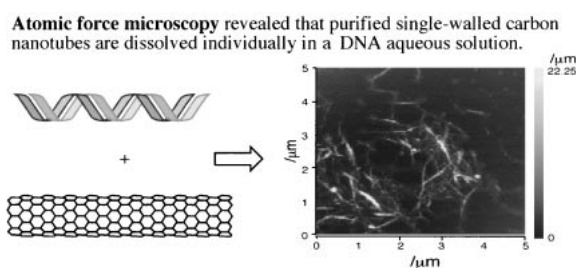
Mari Yamamoto and Masami Nakamoto

## 454 Lewis Acid-Mediated Carboxylation of Aryl- and Allylsilanes with Carbon Dioxide



Tetsutaro Hattori, Yutaka Suzuki, and Sotaro Miyano

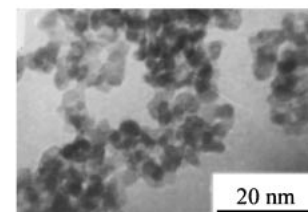
## 456 DNA Dissolves Single-walled Carbon Nanotubes in Water



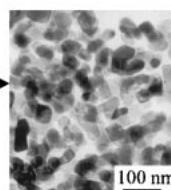
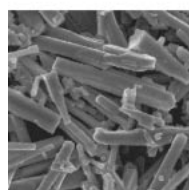
Naotoshi Nakashima, Shingo Okuzono, Hiroto Murakami, Tonau Nakai, and Kenichi Yoshikawa

458 Synthesis of SnO<sub>2</sub> Nanoparticles by the Sol-gel Method From Granulated Tin

SnO<sub>2</sub> nanoparticles with average crystallite sizes of 3 to 5 nm and monodispersed morphology were synthesized by the sol-gel method starting from granulated tin.



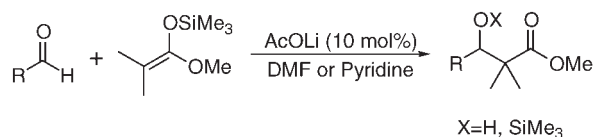
Jianrong Zhang and Lian Gao

460 Preparation of Nanocrystalline Titanium Oxide by Decomposition of Molecular Precursor  $\alpha$ -(NH<sub>4</sub>)<sub>2</sub>TiO(SO<sub>4</sub>)<sub>2</sub>

A nonhydrolytic thermolysis route is presented to prepare hydroxyl-free TiO<sub>2</sub> nanocrystals. They show higher photocatalytic activity than P-25 does in the degradation of phenol.

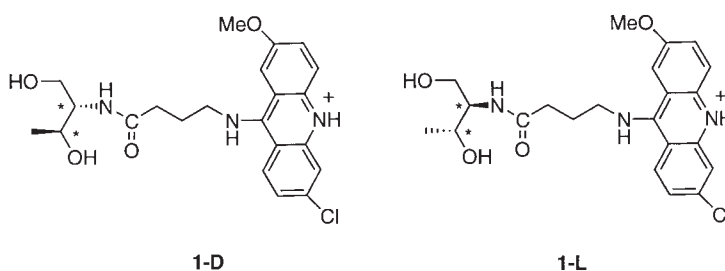
Qinghong Zhang and Lian Gao

## 462 Lithium Acetate-Catalyzed Aldol Reaction between Aldehyde and Trimethylsilyl Enolate



Takashi Nakagawa, Hidehiko Fujisawa, and Teruaki Mukaiyama

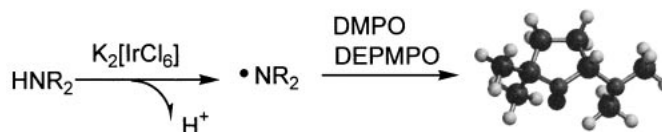
- 464 **Stereochemically Pure Acridine-modified DNA for Site-selective Activation and Scission of RNA**



Yun Shi, Akinori Kuzuya, and Makoto Komiyama

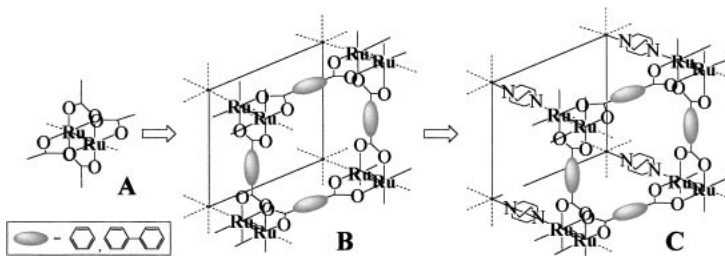
- 466 **Spin Trapping of the Nitrogen-centered Radicals. Characterization of the DMPO/DEPMPO Spin Adducts**

Oxidation of alkylamines produces aminyl radicals, which in turn are trapped by nitron spin traps to form nitroxide radicals.



Catharina T. Migita and Kouto Migita

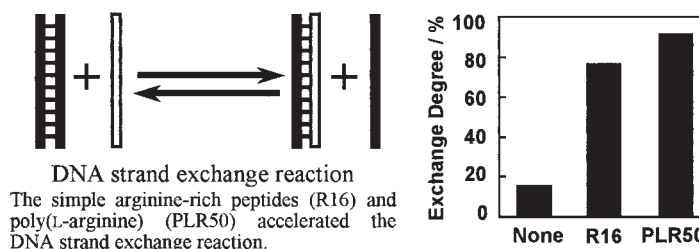
- 468 **Magnetic and Gas-Occlusion Properties and Catalytic Activity of Microporous Materials: Dinuclear Ruthenium(II,II) Dicarboxylates**



(A) Lantern-like structure, (B) Two-dimensional structure, and (C) Three-dimensional structure.

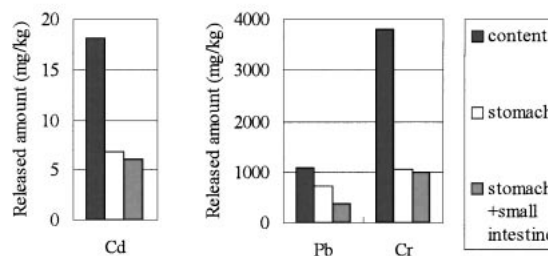
Tetsushi Ohmura, Wasuke Mori, Hiroki Hiraga, Masato Ono, and Yuko Nishimoto

- 470 **Simple Basic Peptides Activate DNA Strand Exchange**



Kaori Tajima, Won Jong Kim, Yuichi Sato, Toshihiro Akaike, and Atsushi Maruyama

- 472 **Evaluation of Bioavailability of Heavy Metals in Soil by in vitro Screening Test**

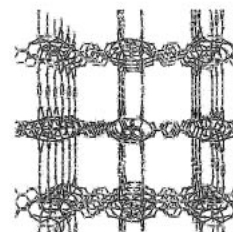


Aya Yamada, Yoshiro Ono, Akiko Kida, and Kenji Namiki

- 
- 474 **A New Open Metal-Organic Framework  $[\text{Zn}_8(\text{GeO}_4)(\text{C}_8\text{H}_4\text{O}_4)_6]_n$ , Constructed by Heterometallic Cluster  $\text{Zn}_8(\text{GeO}_4)$  Secondary Building Units**

Jinxi Chen, Zhicheng Liu, Ting Yu, Zhenxia Chen, Jinyu Sun, Linhong Weng, Bo Tu, and Dongyuan Zhao

A new interpenetrating three dimensional open metal-organic framework  $[\text{Zn}_8(\text{GeO}_4)(\text{C}_8\text{H}_4\text{O}_4)_6]_n$ , constructed by a heterometallic cluster, cubic-like  $\text{Zn}_8(\text{GeO}_4)$  secondary building units.



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*Additions and Corrections*

- 476 **Spin Crossover Complex Film,  $[\text{Fe}^{\text{II}}(\text{H-trz})_3]$ -Nafion, with a Spin Transition around Room Temperature**

Akio Nakamoto, Yuuki Ono, Norimichi Kojima, Daiju Matsumura, and Toshihiko Yokoyama

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