

Chemistry Letters

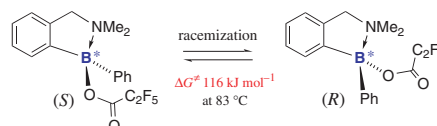
<http://www.csj.jp/journals/chem-lett/>

Vol.33 No.3
March, 2004

CMLTAG
ISSN 0366-7022

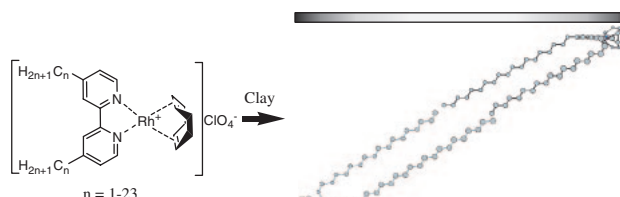
Copyright © 2004 The Chemical Society of Japan

- 206 **Enantiomeric Resolution of Intramolecular Amine-Borane Complex with a Chiral Boron Center**



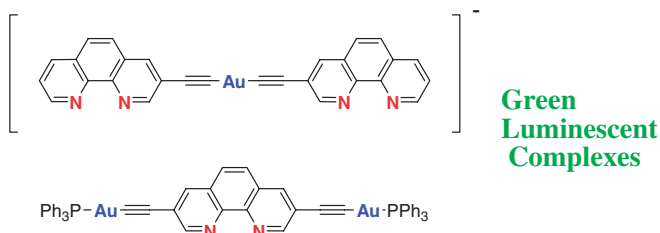
Shinji Toyota, Tomohiro Hakamata, Naoya Nitta, and Fumiko Ito

- 208 **Synthesis of Novel Nano-structured Clays: Unique Conformation of Pillar Complexes**



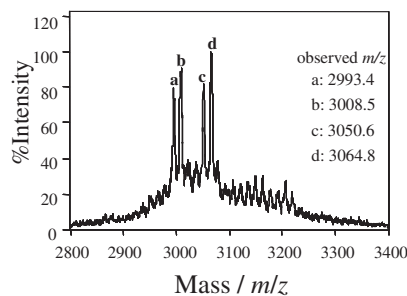
Norihito Yamaguchi, Shogo Shimazu, Nobuyuki Ichikuni, and Takayoshi Uematsu

- 210 **The First Luminescent Anionic Bis(ethynyl-phenanthroline)gold(I) Complex**



Youhei Yamamoto, Michito Shiotsuka, Sigeru Okuno, and Satoru Onaka

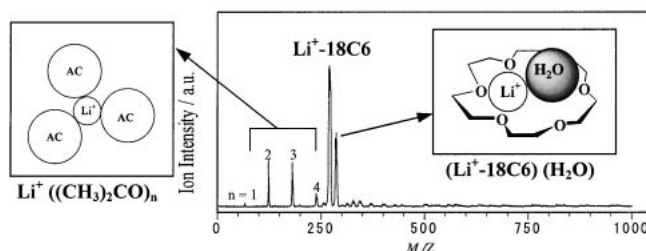
- 212 **Selection of RNA-binding Peptides Containing an Arg-rich Motif**



Naohiko Shimada, Reiko Iwase, Tetsuji Yamaoka, and Akira Murakami

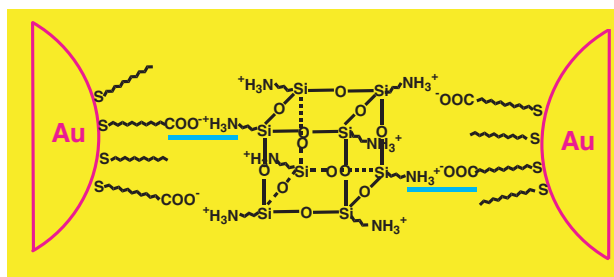
- 214 **Direct Observation of the Li^+ -18-Crown-6 Complex Working as H_2O Capture in Acetone-Water Mixture**

Yoichi Kikuchi, Kayoko Haramoto, Shunsuke Mochizuki, and Akihiro Wakisaka



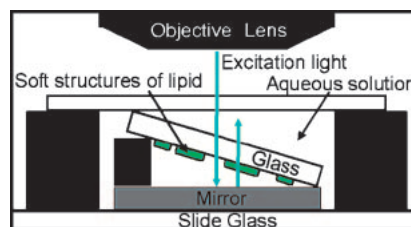
- 216 **Self-organized Nanocomposites of Functionalized Gold Nanoparticles with Octa(3-aminopropyl)octasilsesquioxane**

Xiaqin Wang, Kensuke Naka, Hideaki Itoh, and Yoshiki Chujo



- 218 **Topographical Imaging of Soft Structures of Lipid Membranes at Water-solid Interface by Fluorescence Interferometry**

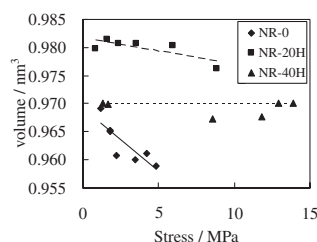
Kenji Suzuki and Hiroshi Masuhara



The schematic illustration of an experimental system under a fluorescence microscope

- 220 **Lattice Deformation of Strain-induced Crystallites in Carbon-filled Natural Rubber**

Sirilux Poompradub, Masatoshi Tosaka, Shinzo Kohjiya, Yuko Ikeda, Shigeyuki Toki, Igors Sics, and Benjamin S. Hsiao



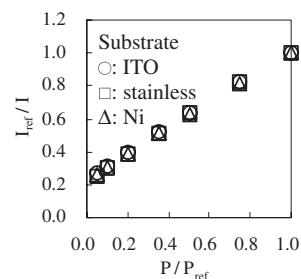
The degree of lattice deformation of the natural rubber crystallites became smaller by filling with carbon black. This result implies that as some local stress was transferred to carbon black, relatively less stress was apportioned to strain-induced crystallites.

- 222 **Electroless Formation of Pressure Sensitive Thin Films of Platinum Porphyrin Using Surfactants with an Azobenzene Group**

Yoshitaka Ito, Kazunori Mitsuo, Keisuke Asai, Ichiro Okura, and Tetsuo Saji

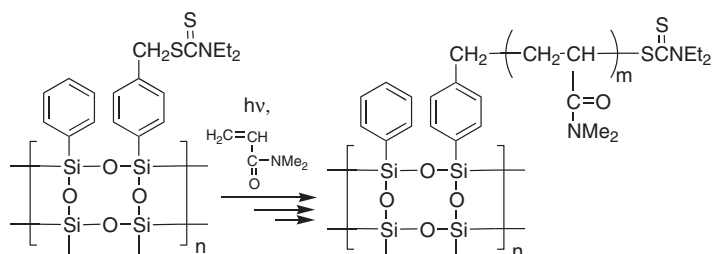
Stern-Volmer plot for platinum octaethylporphyrin and poly-(styrene-co-methyl methacrylate) films. P_{ref} : 100 kPa, T_{ref} : 293 K.

Stern-Volmer plot:
 $I_{\text{ref}}/I = A + B (P/P_{\text{ref}})$



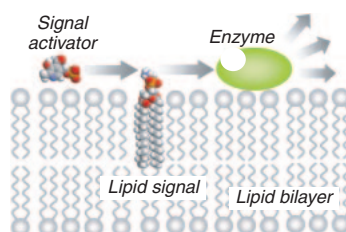
- 224 **Synthesis of Graft Copolymer from Polysil-sesquioxane Initiated by Photoiniferter**

Osamu Moriya, Shin-ichi Yamamoto, Takeo Kumon, Toshifumi Kageyama, Atsuko Kimura, and Toshio Sugizaki



- 226 **Intermolecular Communication on Lipid Bilayer Membrane. Control of Enzymatic Activity Triggered by a Lipid Signal**

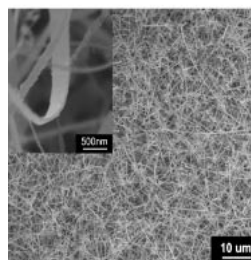
Wen-Jie Tian, Yoshihiro Sasaki, Atsushi Ikeda, Jun-ichi Kikuchi, and Sheng-Di Fan



Specific activation of a lipid signal switched on an enzyme action through systematic and multiple molecular recognitions on lipid bilayer membrane.

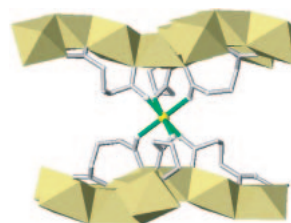
- 228 **CdS Nanobelts on Si Substrate**

Weifeng Liu, Chuangui Jin, Chong Jia, Lianzeng Yao, Weili Cai, and Xiaoguang Li



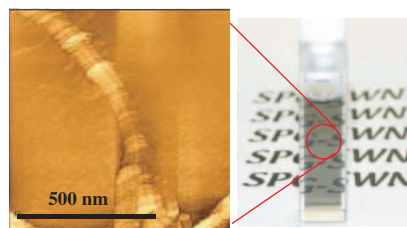
- 230 **A Novel 3-D Network of Fe(II) Gglutarate: 2-D Honeycomb-type Edge-shared FeO₆ Layers and Isolated Interlayer FeO₆ Octahedra**

YooJin Kim, YunJu Park, Duk-Young Jung, Sangjun Oh, Dae Sung Kim, and Jung Chul Sur



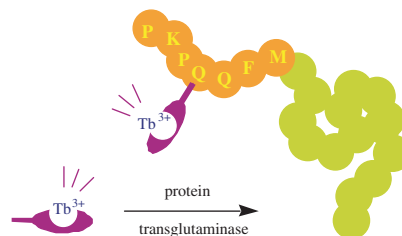
- 232 **Curdlan and Schizophyllan (β -1,3-Glucans) can Entrap Single-wall Carbon Nanotubes in Their Helical Superstructure**

Munenori Numata, Masayoshi Asai, Kenji Kaneko, Teruaki Hasegawa, Norifumi Fujita, Yumiko Kitada, Kazuo Sakurai, and Seiji Shinkai



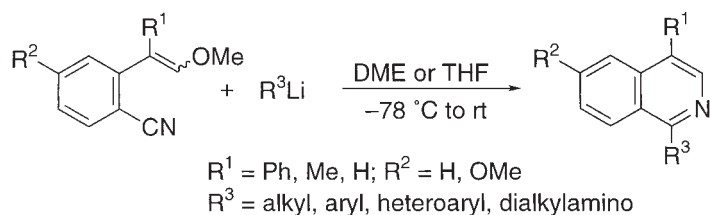
β -1,3-Glucan - SWNT

- 234 **Synthesis of Novel Luminescent Substrates and Their Incorporation into a Protein Only at a Terminal Site via a Transglutaminase-catalyzed Enzymatic Reaction**



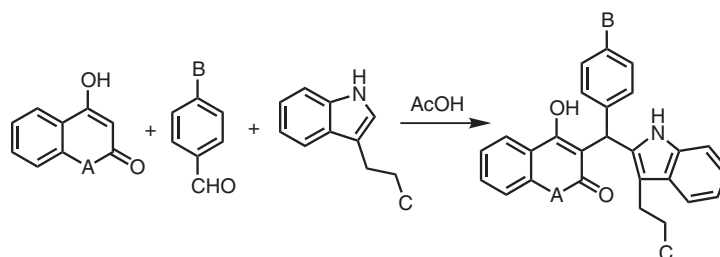
Masumi Taki and Kazunari Taira

- 236 **New Synthesis of Isoquinoline Derivatives by Reactions of 2-(2-Methoxyethenyl)benzonitriles with Organolithiums and Lithium Dialkylamides**



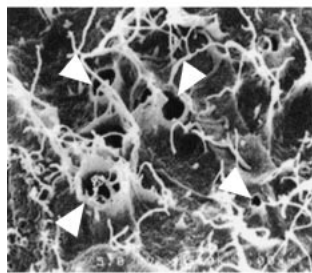
Kazuhiro Kobayashi, Taiyo Shiokawa, Osamu Morikawa, and Hisatoshi Konishi

- 238 **Synthesis of SF2809-V, Chymase Inhibitor, and Its Analogs by Three Component Reaction: Model Study for High Throughput Synthesis of a Chymase Inhibitor Library**



Yasuo Yamamoto and Kenzo Harimaya

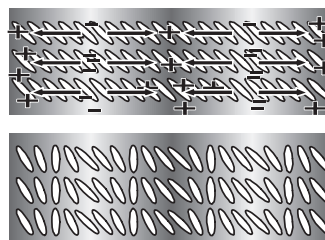
- 240 **Cytoplasmic Molecular Delivery by Hematoporphyrin Derivative-based Photodynamic Treatment Using High-intensity Pulsed Laser Irradiation**



Photosensitized HeLa cells receiving high-intensity pulsed laser irradiation exhibited pores on the membrane surface.

Yuuichi Miyamoto, Yoshiaki Suzuki, Takashi Meguro, and Masaya Iwaki

- 242 **Photorefractivity of Mixtures of a Ferroelectric Liquid Crystal and Photoconductive Polymers**



Interference in FLC
Charge generation
Charge transport
Generation of internal electric field

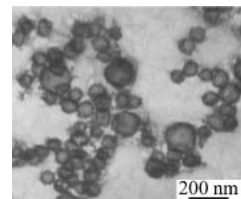
Change in orientations of FLC molecules

Yukihito Nakazawa and Takeo Sasaki

244 **Large Scale Fabrication of Hollow Palladium Nanospheres by Template-free Approach**

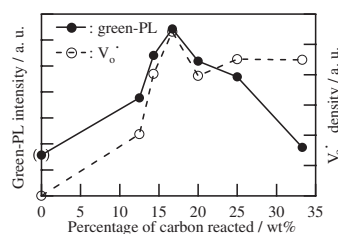
In large-scale and high yields hollow palladium nanospheres were fabricated by template-free approach in one step at room temperature.

Xuanjun Zhang, Qingrui Zhao, Yupeng Tian, and Yi Xie



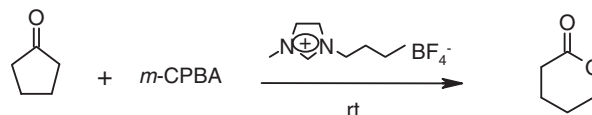
246 **A Novel Method for the Preparation of Green-photoluminescent Zinc Oxide by Microwave-assisted Carbothermal Reduction**

Tetsushi Yamamoto, Yuji Wada, Hiromitsu Miyamoto, and Shozo Yanagida



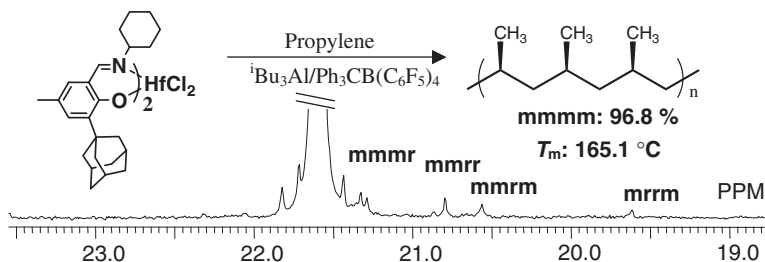
248 **Baeyer–Villiger Oxidations in Ionic Liquids. A Facile Conversion of Ketones to Esters and Lactones**

J. S. Yadav, B. V. S. Reddy, A. K. Basak, and A. V. Narsaiah



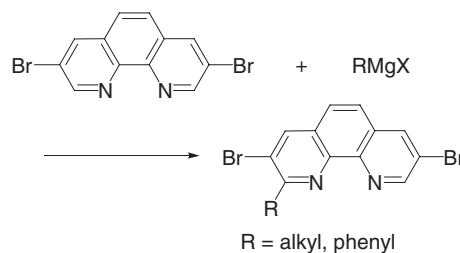
250 **Highly Isospecific Polymerization of Propylene with Bis(phenoxy-imine) Zr and Hf Complexes Using $i\text{Bu}_3\text{Al}/\text{Ph}_3\text{CB}(\text{C}_6\text{F}_5)_4$ as a Co-catalyst**

Aitha Vishwa Prasad, Haruyuki Makio, Junji Saito, Mitsuhiro Onda, and Terunori Fujita



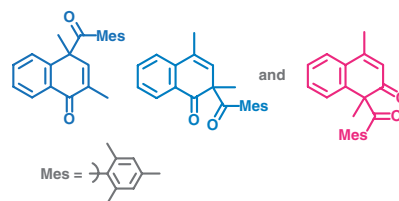
252 **Direct Alkylation and Phenylation of 3,8-Dibromo-1,10-phenanthroline with Grignard Reagents**

Kazushige Anzai, Hiroki Fukumoto, and Takakazu Yamamoto



254 **Isolation of Cyclohexadienone Intermediates in the Photo-Fries Rearrangement of 2,4-Dimethylnaphth-1-yl and 1,4-Dimethylnaphth-2-yl 2,4,6-Trimethylbenzoates**

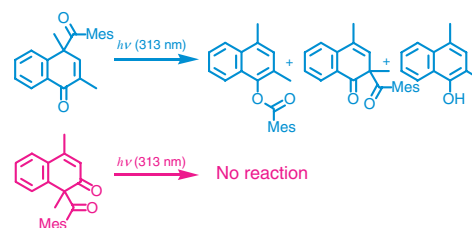
Three isomeric acylcyclohexanones were isolated in good yields from the photolysates of partially or fully blocked naphthyl esters.



Tadashi Mori, Makoto Takamoto, Hideaki Saito, Takahiro Furo, Takehiko Wada, and Yoshihisa Inoue

256 **Remarkable Differences in Photo and Thermal (Acid-catalyzed) Reactivities between *ortho*- and *para*-Acylcyclohexadienones as Essential Factors Determining the Overall Efficiency of the Photo-Fries Rearrangement**

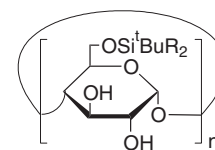
"*Ortho*" and "*para*"-acylcyclohexadienones, prepared photochemically, showed completely different photochemical and acid-catalyzed behavior.



Tadashi Mori, Makoto Takamoto, Hideaki Saito, Takahiro Furo, Takehiko Wada, and Yoshihisa Inoue

258 **Amphiphilic Cyclodextrins as Novel Monosaccharide Transport Carriers through a Bulk Liquid Membrane**

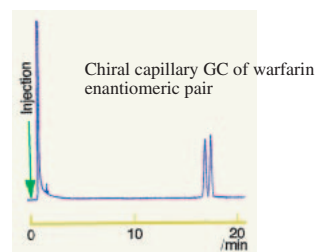
Monosaccharides, such as D-ribose, D-xylose, and D- glucose, were successfully transported through a bulk liquid membrane by using amphiphilic β - and γ -cyclodextrin carriers.



R = Ph, n = 7 R = Me, n = 7
R = Ph, n = 8 R = Me, n = 8

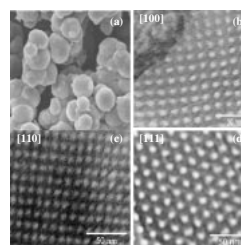
Toshiyuki Kida, Takeru Ohe, Hiroyuki Higashimoto, Hitoshi Harada, Yohji Nakatsuji, Isao Ikeda, and Mitsuru Akashi

260 **Separation of Warfarin Enantiomers by Capillary Gas Chromatography with Chiral Stationary Phase**



Iwao Abe, Daiki Nagamatsu, Taketoshi Nakahara, and Gerd Fabian

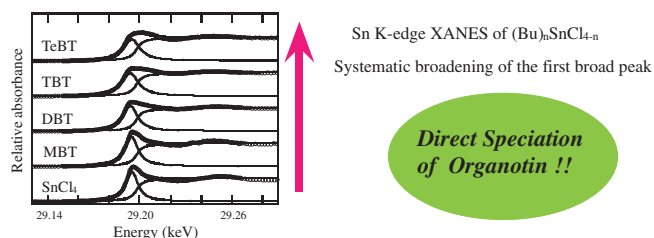
262 **Rapid Crystallization of High Quality Cubic Silica SBA-16 Nanoporous Material**



Chi-Feng Cheng, Yi-Chun Lin, Hsu-Hsuan Cheng, Shr-Miau Liu, and Hwo-Shuenn Sheu

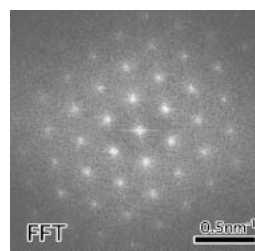
264 **Direct Speciation of Tin Compounds in Environmental Samples Using Sn K-edge XANES**

Naoki Sakakibara, Yoshio Takahashi, Yoshitaka Yamaguchi, Kiyoshi Shibata, and Tomoya Uruga



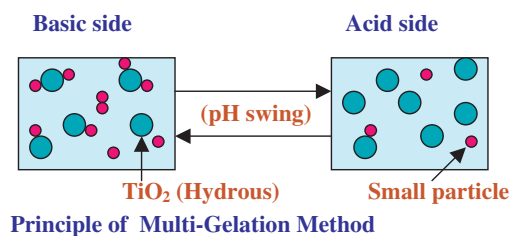
266 **Improved Long-range Order of Silicious MCM-41 by Gradual Heating of Synthesis Gel**

A. K. Sinha, S. Seelan, T. Akita, S. Tsubota, and M. Haruta



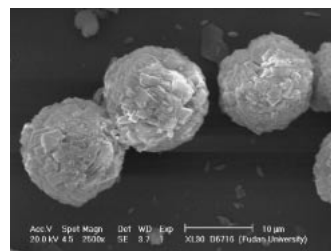
268 **Preparation of TiO₂ Photocatalysts by Multi-gelation and Their Photocatalytic Reactivity for the Degradation of 2-Propanol**

Bernaardshaw Neppolian, Hiromi Yamashita, Yoshimi Okada, Hiroaki Nishijima, and Masakazu Anpo



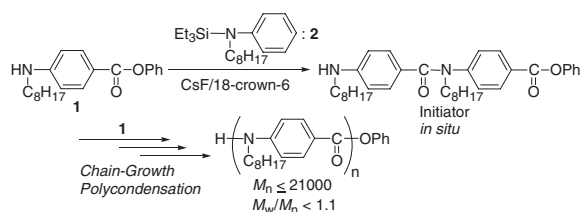
270 **Synthesis of Meso-/Macroporous Zeolite (Fe,Al)-ZSM-5 Microspheres from Diatomite**

Wei Shan, Yahong Zhang, Yajun Wang, Jianchao Xia, and Yi Tang



272 **Self-initiated Chain-growth Polycondensation for Aromatic Polyamides**

Tsutomu Yokozawa, Ryuji Sugi, Toshinobu Asai, and Akihiro Yokoyama

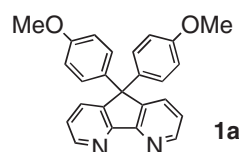


- 274 **An Efficient and Green Synthesis of 2-Aryl-benzothiazoles in an Ionic Liquid, [pmIm]Br under Microwave Irradiation**



Brindaban C. Ranu, Ranjan Jana, and Suvendu S. Dey

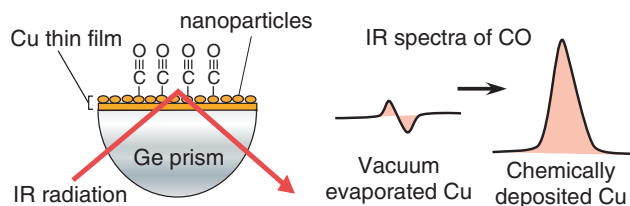
- 276 **Synthesis and Properties of 9,9'-Diaryl-4,5-diazfluorenes. A New Type of Electron-Transporting and Hole-Blocking Material in EL Device**



Katsuhiko Ono, Tomoki Yanase, Masakazu Ohkita, Katsuhiro Saito, Yosuke Matsushita, Shigeki Naka, Hiroyuki Okada, and Hiroyoshi Onnagawa

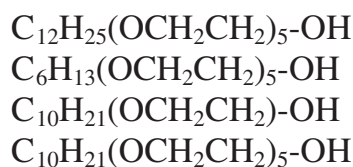
A phosphorescent EL device using **1a** as a hole-blocking layer exhibited a maximum external quantum efficiency of 18%.

- 278 **Surface-enhanced Infrared Spectrum of CO Adsorbed on Cu Electrodes in Solution**



Hiroto Miyake and Masatoshi Osawa

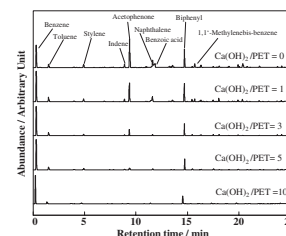
- 280 **Preparation of Hydrogenated Surfactant/SC CO₂ Micelles and Their Micropolarity Determination**



Zameer Shervani, Juncheng Liu, and Yutaka Ikushima

- 282 **High Selective Conversion of Poly(ethylene terephthalate) into Oil Using Ca(OH)₂**

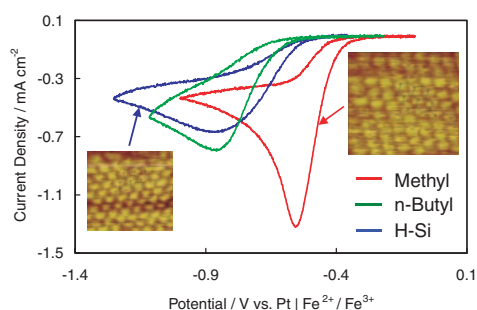
It is a well-known fact that sublimation substances, such as benzoic acid and terephthalic acid, are produced in the thermal decomposition of PET, and this causes problems in plastic recycling plants. However, it is clear that the addition of Ca(OH)₂ affects the high selectivity of benzene without producing sublimation substances. The yield of benzene was 35.85 wt % at 700 °C and a 10.0 Ca(OH)₂/PET molar ratio. This value means that the selectivity of benzene is 78.8% for liquid products, and 85.1 wt % for aromatic ring in input PET.



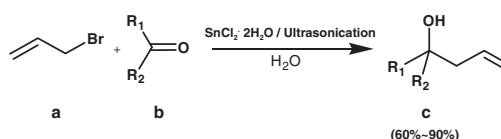
Toshiaki Yoshioka, Eisaku Kitagawa, Tadaaki Mizoguchi, and Akitsugu Okuwaki

284 **Electrochemical Behavior of Methyl- and Butyl-Terminated Si(111) in Aqueous Solution**

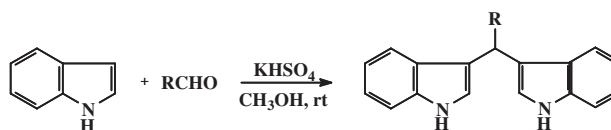
Daisuke Niwa, Tomoyuki Inoue, Hiroshi Fukunaga, Toru Akasaka, Taro Yamada, Takayuki Homma, and Tetsuya Osaka

286 **Novel Ultrasonication-assisted Carbonyl Allylation Mediated by SnCl₂ in Water**

Carbonyl allylation mediated by SnCl₂ in water under ultrasonication without using any Lewis acid catalyst.



Jun Wang, Gu Yuan, and Chang-Qing Dong

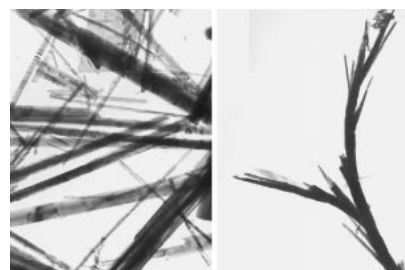
288 **Potassium Hydrogen Sulfate-Catalyzed Reactions of Indoles: A Mild, Expedient Synthesis of Bis-indolylmethanes**

Electrophilic substitution of indole with aldehydes catalyzed by potassium hydrogen sulfate is reported.

Rajagopal Nagarajan and Paramasivan T. Perumal

290 **Synthesis and Characterization of Strontium Carbonate Nanowires with *a* Axis Orientation and Dendritic Nanocrystals**

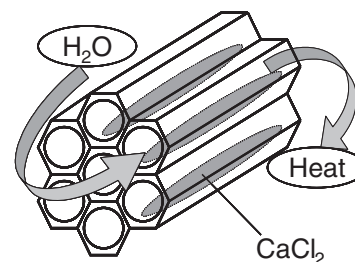
The strontium carbonate nanowires that grow along the *a* axis were synthesized in large scale through simple hydrothermal approach for the first time. The aspect ratio of the product is more than 1000. Dendritic nanocrystals were also generated at low temperatures. Moreover, this method is feasible to be applied in the synthesis of barium carbonate nanowires.



Qing Huang, Lian Gao, Ye Cai, and Fritz Aldinger

292 **Water Sorption of CaCl₂-Containing Materials as Heat Storage Media**

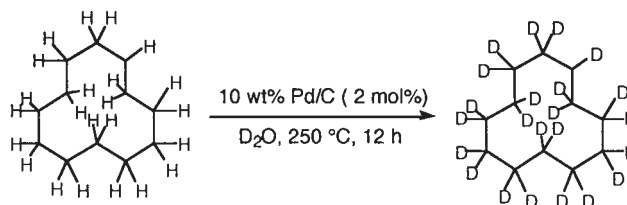
Heat storage capacity with water sorption on CaCl₂/FSM16 was 3.5 times as high as that on Na form Y-zeolite.



Chun Yi Liu, Kentaro Morofuji, Kenji Tamura, and Ken-ichi Aika

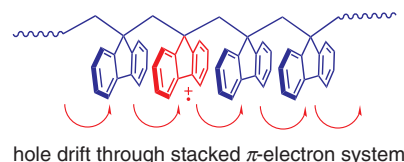
294 **Palladium-Catalyzed H–D Exchange Reaction under Hydrothermal Condition**

Seijiro Matsubara, Yutaka Yokota, and Koichiro Oshima



296 **Charge Transport in a π -Stacked Poly(dibenzofulvene) Film**

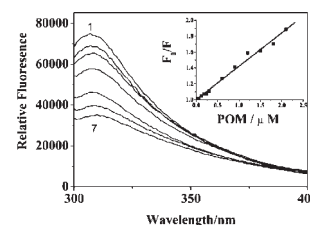
Tamaki Nakano, Tohru Yade, Masaaki Yokoyama, and Norio Nagayama



298 **Effects of $K_5SiW_{11}O_{39}Co$ on Mitogenic Activity of Basic Fibroblast Growth Factor**

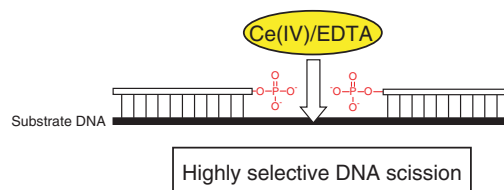
Liwei Sun, Qiang Wu, Ning Liu, Cheng Yang, Liyan Liu, Zhiqiang Liu, and Daqing Zhao

Conformation changes of bFGF induced by POM ($K_5SiW_{11}O_{39}Co$) were observed by fluorescence and CD spectra. The mitogenic assay showed that POM in various concentration ranges produced different effects on mitogenic activity of bFGF.

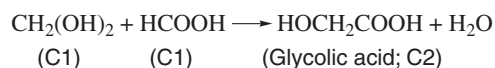


300 **Monophosphate as Eminent Ligand to Bind Ce(IV)/EDTA Complex for Site-selective DNA Hydrolysis**

Wen Chen, Tomoyuki Igawa, Jun Sumaoka, and Makoto Komiyama



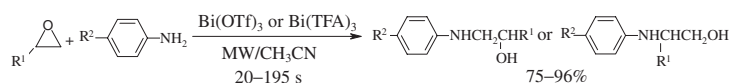
302 **Carbon–Carbon Bond Formation in Glycolic Acid Generated Spontaneously from Dichloromethane in Hot Water**



A new carbon–carbon bond formation in hot water was found. Hydrothermal reaction of dichloromethane (CH_2Cl_2) at 1 mol/dm³ leads to the formation of glycolic acid at an yield of 50% without metal catalysts in the temperature range of 200–250 °C.

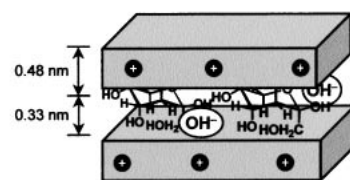
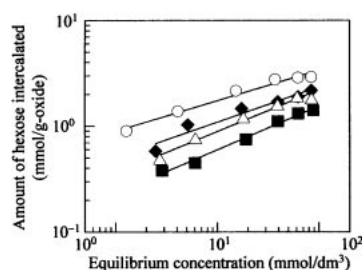
Chihiro Wakai, Saiko Morooka, Nobuyuki Matubayasi, and Masaru Nakahara

- 304 **Bi(OTf)₃- and Bi(TFA)₃-Catalyzed Ring Opening of Epoxides with Anilines under Microwave Irradiation**



Ahmad R. Khosropour, Mohammad M. Khodaei, and Kazem Ghazati

- 306 **Stereoselective Intercalation of Hexose for Layered Double Hydroxide by Calcination–Rehydration Reaction**

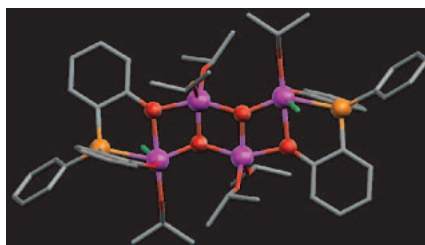


Schematic model of fructose/LDH.

Sumio Aisawa, Hidetoshi Hirahara, Satoshi Takahashi, Yoshio Umetsu, and Eiichi Narita

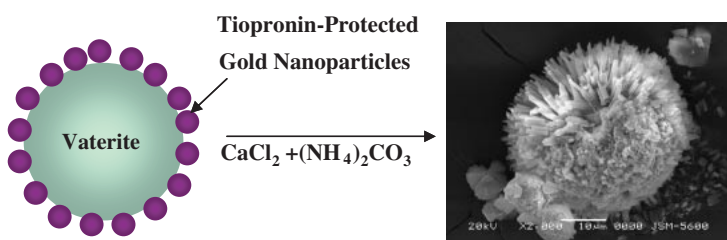
- 308 **First Example of a Heptacyclic Tetranuclear, Five- and Six-coordinate Titanium Complex, [(ⁱPrO)₂Ti(μ³-O)TiCl(ⁱPrO)((OC₆H₄)₂PPh)₂]**

Synthesis and structural characterization of a novel tetranuclear titanium complex containing bis(*o*-phenol)phenylphosphine is described. The structure is a rare example with titanium having four different types of oxygen bindings.



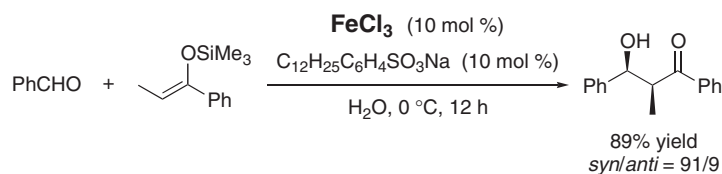
Srinivasan Priya, Maravanji S. Balakrishna, and Joel T. Mague

- 310 **The Sea Urchin-shaped CaCO₃ via Template Mineralization on Surface-functionalized Vaterite Particles by Tiopronin-protected Gold Nanoparticles**



Dong-Ki Keum, Kensuke Naka, and Yoshiki Chujo

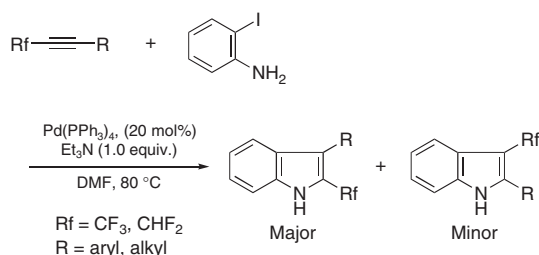
- 312 **Iron(III) Chloride as a Water-Compatible Lewis Acid for Diastereoselective Aldol Reactions in Water in the Presence of a Surfactant**



Naohiro Aoyama, Kei Manabe, and Shū Kobayashi

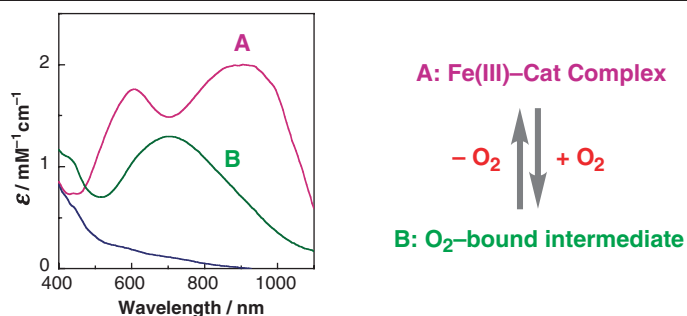
- 314 **A Facile Synthesis of Various Fluorine-Containing Indole Derivatives via Palladium-Catalyzed Annulation of Internal Alkynes**

Jungha Chae, Tsutomu Konno, Takashi Ishihara, and Hiroki Yamanaka



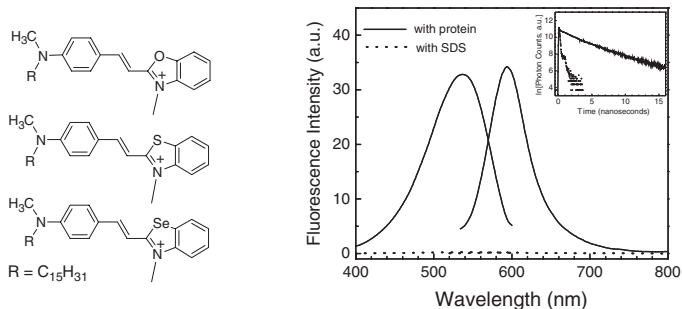
- 316 **A Reaction Intermediate Involved in Oxygenation of Catecholatoiron(III) Complexes with Molecular Oxygen — Relevance to Catechol Dioxygenases**

Yutaka Hitomi, Yuichiro Tase, Masakazu Higuchi, Tsunehiro Tanaka, and Takuzo Funabiki



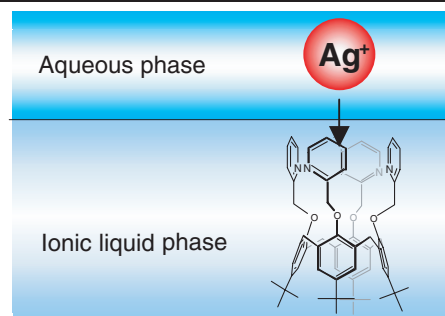
- 318 **New Fluorescent Stains for Protein Detection in Sodium Dodecyl Sulfate–Polyacrylamide Gels**

Soo Yeon Hong, Hyunsook Jun, Seung Soo Yoon, Chulhun Kang, and Myungkoo Suh



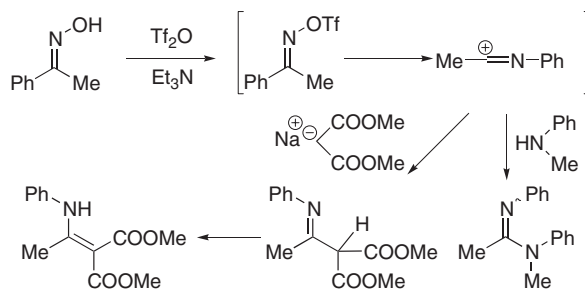
- 320 **First Application of Calixarenes as Extractants in Room-temperature Ionic Liquids**

Kojiro Shimojo and Masahiro Goto



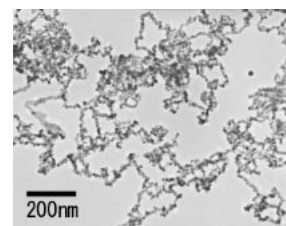
- 322 **Facile One-pot Syntheses of Amidines and Enamines from Oximes via Beckmann Rearrangement Using Trifluoromethanesulfonic Anhydride**

Tomofumi Takuwa, Tomofumi Minowa, Jim Yoshitaka Onishi, and Teruaki Mukaiyama



324 **Direct Chemical Synthesis of Gold Nanowires with 2-D Network Structure and Relationship between the Presence of Gold Ions and Shape Stability of Gold Nanowires**

Gold nanowires uniformly covering a 2-dimensional space were synthesized by direct reduction of AuCl_4^- with sodium citrate. The shape stability of nanowires was related to the presence of gold ions in the solution phase.

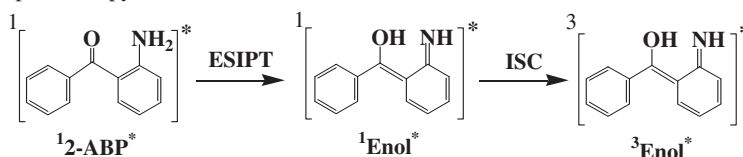


Lihua Pei, Koichi Mori, and Motonari Adachi

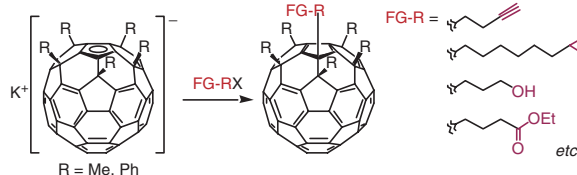
326 **Excited-state Intramolecular Proton Transfer (ESIPT)-type Phosphorescence of 2-Aminobenzophenone in 77 K Matrices**

Excited triplet state of photoenol ($^3\text{Enol}^*$) of 2-aminobenzophenone (2-ABP) in 77 K matrices has been observed by laser-induced luminescence spectroscopy.

Masahide Hagiri, Nobuyuki Ichinose, Jun-ichiro Kinugasa, Tatsuya Iwasa, and Toshihiro Nakayama



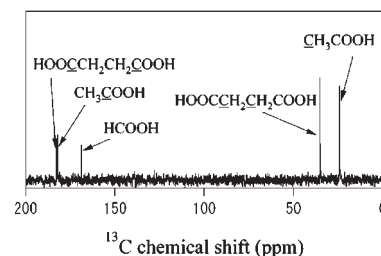
328 **Synthesis of Functionalized Fullerene by Mono-alkylation of Fullerene Cyclopentadienide**



Ryo Hamasaki, Yutaka Matsuo, and Eiichi Nakamura

330 **Desulfurization of Thiophene in Alkaline Supercritical Water Studied by ^1H and ^{13}C NMR**

Thiophene was successfully desulfurized in supercritical water, and was disintegrated into S^{2-} and such carboxylic acids as formic, acetic, and succinic acids.

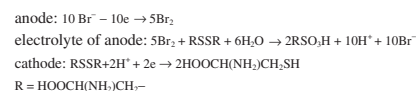


Shinya Yoshida, Koji Takewaki, Keiichi Miwa, Chihiro Wakai, and Masaru Nakahara

332 **Synthesis of L-Cysteine and L-Cysteic Acid by Paired Electrolysis Method**

L-Cysteine and L-cysteic acid were synthesized by paired electrolysis method. A high purity over 98% and high yield over 90% of both products were gained. The cyclic voltammetry behaviors of hydrobromic acid and cystine showed a typical EC catalytic process took place in the anodic cell. Anode reaction and successive chemical reaction accelerated each other to get a high speed and current efficiency.

Electrode reaction and chemical reaction in the electrolytes were:



Xixin Wang and Jianling Zhao

334 **Growth of Sb_2O_3 Nanotubes via a Simple Surfactant-assisted Solvothermal Process**

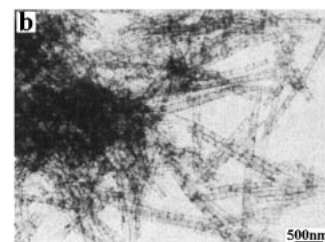


We report a simple surfactant-assisted solvothermal synthesis of Sb_2O_3 nanotubes. The nanotubes have an orthorhombic structure with outer diameters range from 40 to 150 nm, the wall thickness of 10 to 40 nm and a length of up to several micrometers. The nanotubes might be formed by a rolling process.

Yunxia Zhang, Guanghai Li, and Lide Zhang

336 **Synthesis of Bamboo-shaped TiO_2 Nanotubes in Nanochannels of Porous Aluminum Oxide Membrane**

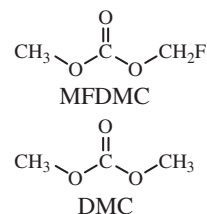
The morphologies of nanotubes by upright dipping manner shows voids and knots in the tubular structures, which made the nanotubes looked like bamboo. The regions of high electron density appear along the tubes and transect the hollow regions at intervals ranged from 80 to 300 nm.



Tianyou Peng, Huanping Yang, Gang Chang, Ke Dai, and Kazuyuki Hirao

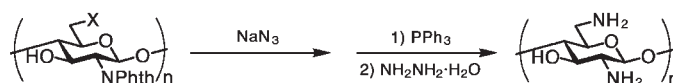
338 **Physical Properties of Monofluorodimethyl Carbonate**

Monofluorodimethyl carbonate (MFDMC) exerts the polar effect on physical properties. Relative permittivity (ϵ_r), viscosity (η), and density (ρ) of MFDMC are higher than those of dimethyl carbonate (DMC) over a temperature range of 10 to 70 °C, whereas refractive index (n_D) becomes lower.



Masahiro Takehara, Susumu Watanabe, Noritoshi Nanbu, Makoto Ue, and Yukio Sasaki

340 **6-Amino-6-deoxychitosan. Preparation and Application as Plasmid Vector in COS-1 Cells**



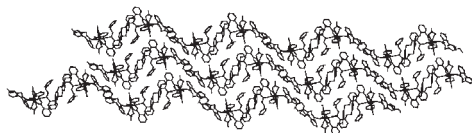
X=Cl
X=Br (0.98), OH (0.02)

Phth = phtahloyl

Taku Satoh, Takeshi Nagasaki, Nobuo Sakairi, and Seiji Shinkai

342 **Controlled Assembly of Dinuclear Metallo-rings into 1D Coordination Polymer and Mixed-metal Rare Earth Complexes with Red-to-Green Luminescence Properties**

Novel rings connected by chains one-dimensional (1D) coordination polymer of rare earth complex have been rationally synthesized by the reaction of $\text{Eu}(\text{NO}_3)_3$ and L, 1,4-bis{[(2'-benzyl aminoformyl)phenoxy]methyl}benzene.

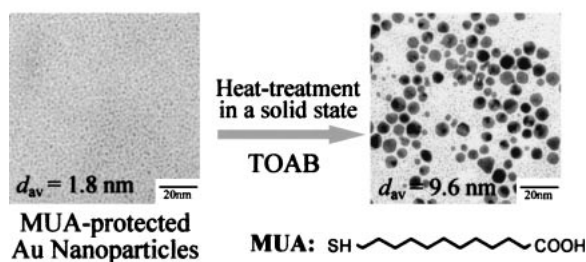


Three adjacent strands of the 1D coordination polymer (H atoms are omitted for clarity)

Zheng-Hong Cai, Yu Tang, Wei-sheng Liu, and Min-Yu Tan

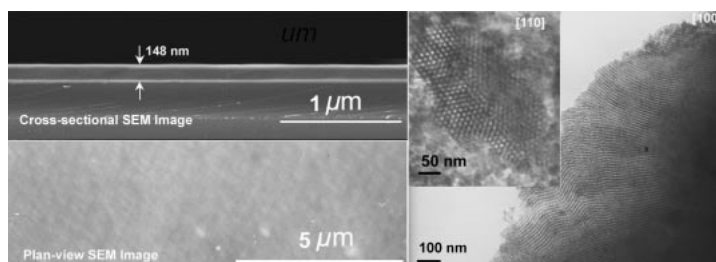
- 344 **Particle Size Control of 11-Mercaptoundecanoic Acid-Protected Au Nanoparticles by Using Heat-treatment Method**

Kyung-Hoon Kim, Mami Yamada, Dae-Won Park, and Mikio Miyake



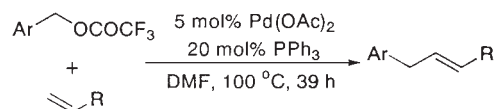
- 346 **Spin-coating Preparation of High Quality Mesoporous Titania Nanofilms**

Ningzhong Bao, Kazumichi Yanagisawa, Xiaohua Lu, and Xin Feng



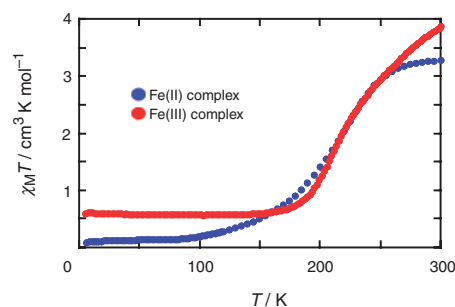
- 348 **Heck-type Benzylolation of Olefins with Benzyl Trifluoroacetates**

Hirohisa Narahashi, Akio Yamamoto, and Isao Shimizu



- 350 **A Tripodal Ligand Containing Three Imidazole Groups Inducing Spin Crossover in Both Fe(II) and Fe(III) Complexes; Structures and Spin Crossover Behaviors of the Complexes**

Hiromi Ohta, Yukinari Sunatsuki, Masaaki Kojima, Seiichiro Iijima, Haruo Akashi, and Naohide Matsumoto

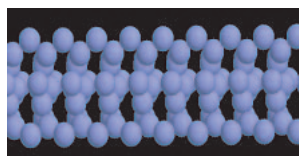


- 352 **Water-free Solution Synthesis of Monodisperse Cu₂S Nanocrystals**

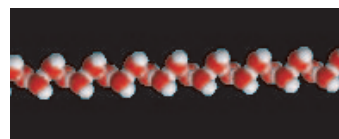
Toshihiro Kuzuya, Saeki Yamamuro, Takehiko Hihara, and Kenji Sumiyama



- 354 **Novel 1-D Water Nanowires in Crystal of an Organic Host**



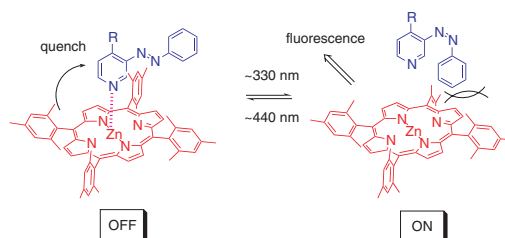
Water Nanowire-I



Water Nanowire-II

Akio Wakahara and Toshimasa Ishida

- 356 **Light-triggered Luminescence Modulation Using Labile Axial Coordination to Zinc-Porphyrin**



Joe Otsuki, Koichi Narutaki, and Jan M. Bakke

- 358 **Crystal Structure of a Liquid Crystalline Ferrocene Derivative, 1,1'-bis[10-[4-(4-methoxyphenoxy)carbonyl]phenoxy]decyloxycarbonyl]ferrocene**



The first example of U-type structure of liquid crystalline ferrocene derivatives.

Naotake Nakamura and Takashi Okabe