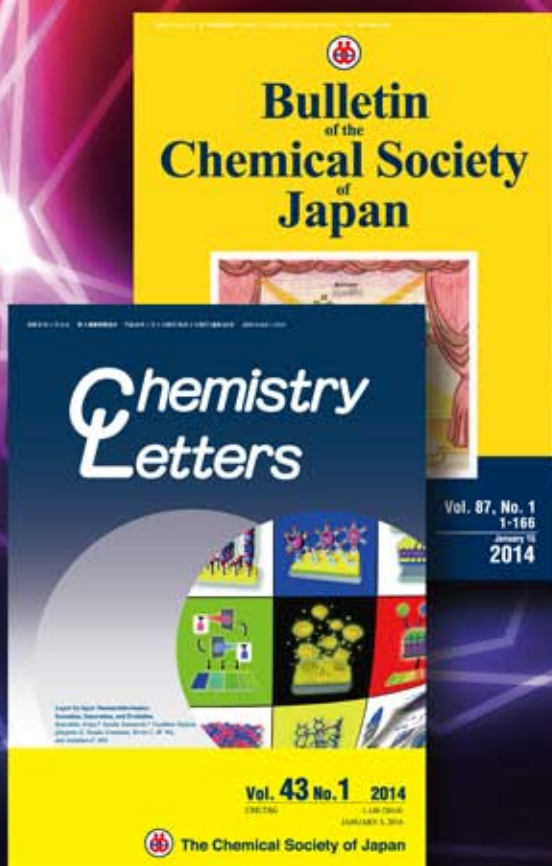


# CSJ Journal Report

Vol. 1

## 2012-2014 First-quarter Hot Articles

Analytical Chemistry  
Asymmetric Catalysis  
Chemical Biology  
Coordination Chemistry  
Efficient Synthesis  
Innovative Materials  
Mesoporous Materials  
Metal Catalysis  
Nanotechnology  
Novel Bonding and Structures  
Organic Electronics  
Photochemistry  
Physical Analysis  
Supramolecules  
Theoretical Chemistry



# CSJ Journal Report Vol. 1

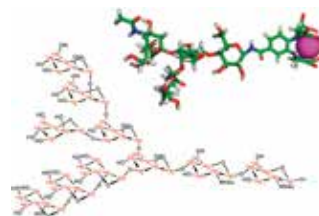
## Contents

Analytical Chemistry	01
Asymmetric Catalysis	04
Chemical Biology	05
Coordination Chemistry	08
Efficient Synthesis	09
Innovative Materials	16
Mesoporous Materials	25
Metal Catalysis	26
Nanotechnology	31
Novel Bonding and Structures	34
Organic Electronics	36
Photochemistry	38
Physical Analysis	39
Supramolecules	41
Theoretical Chemistry	44



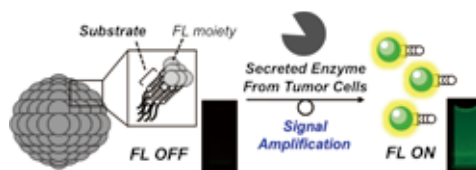
## New NMR Tools for Characterizing the Dynamic Conformations and Interactions of Oligosaccharides

K. Kato

 Ying Zhang, Takumi Yamaguchi, and Koichi Kato  
*Chem. Lett.* **2013**, *42*, 1455–1462.


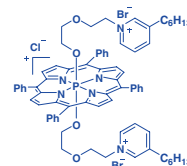
## Disassembly-driven Turn-on Sensing of Enzyme Activity by Substrate-based Fluorescent Nanoprobe

I. Hamachi

 Yousuke Takaoka, Yoshiaki Fukuyama, Kazuya Matsuo, and Itaru Hamachi  
*Chem. Lett.* **2013**, *42*, 1426–1428.


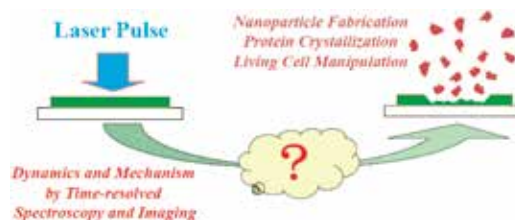
## Spectroscopic Analysis of the Interaction of Human Serum Albumin with Tricationic Phosphorus Porphyrins Bearing Axial Pyridinyl Groups

J. Matsumoto

 Jin Matsumoto, Tomoya Kubo, Tomohiko Shinbara, Naomi Matsuda, Tsutomu Shiragami, Mamoru Fujitsuka, Tetsuro Majima, and Masahide Yasuda  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1240–1247.

 High water solubility  
 High affinity to HSA

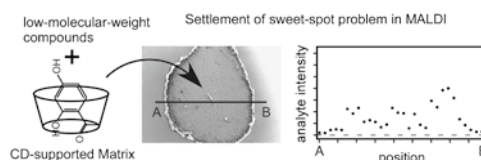

## Time-Resolved Spectroscopic and Imaging Studies on Laser Ablation of Molecular Systems: From Mechanistic Study to Bio/Nano Applications

H. Masuhara

 Hiroshi Masuhara  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 755–783.


## Settlement of the Sweet-spot Problem of MALDI Crystals Using Cyclodextrin-supported Matrix

T. Fujino

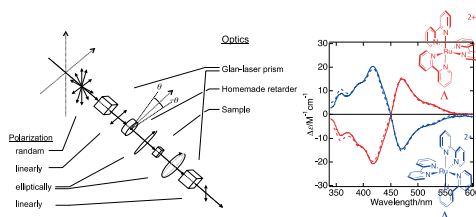
 Takashi Fujita and Tatsuya Fujino  
*Chem. Lett.* **2013**, *42*, 350–351.




T. Wada

## Remarkable Enhancement of Sensitivity with the Second Generation of Elliptically Polarization-detected Circular Dichroism Spectroscopy

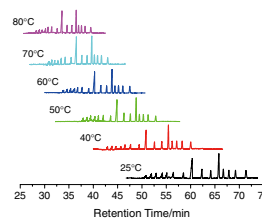
Makoto Murakami, Yasuyuki Araki, Seiji Sakamoto, Yoshiki Hamada, and Takehiko Wada  
*Chem. Lett.* **2013**, *42*, 261–262.



X. Wang

## Effect of Temperature on DNA Chromatographic Separation in Free Solution

Ruonan Li, Lei Liu, Yu Wang, and Xiayan Wang  
*Chem. Lett.* **2012**, *41*, 1506–1508.



H. Isobe

## A Facile Chromatographic Method for Purification of Pinacol Boronic Esters

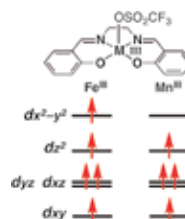
Shunpei Hitosugi, Daiki Tanimoto, Waka Nakanishi, and Hiroyuki Isobe  
*Chem. Lett.* **2012**, *41*, 972–973.



H. Fujii

## Comparative Spectroscopic Studies of Iron(III) and Manganese(III) Salen Complexes Having a Weakly Coordinating Triflate Axial Ligand

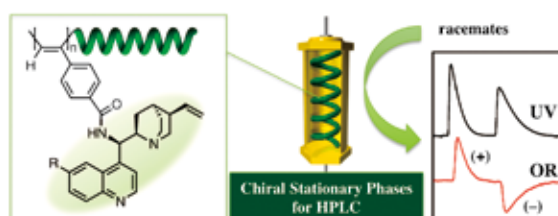
Takuya Kurahashi and Hiroshi Fujii  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 940–947.



E. Yashima

## Enantioseparation on Helical Poly(phenylacetylene)s Bearing Cinchona Alkaloid Pendants as Chiral Stationary Phases for HPLC

Yuki Naito, Zhenglin Tang, Hiroki Iida, Toshitaka Miyabe, and Eiji Yashima  
*Chem. Lett.* **2012**, *41*, 809–811.



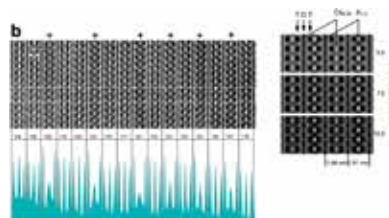




H. Sato

### XRD and HRTEM Evidence for Fixation of Cesium Ions in Vermiculite Clay

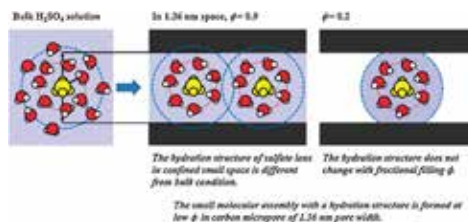
Toshihiro Kogure, Kazuya Morimoto, Kenji Tamura, Hisako Sato, and Akihiko Yamagishi  
*Chem. Lett.* **2012**, *41*, 380–382.



R. Futamura

### Small- and Large-angle X-ray Scattering Studies of Nanometer-order Sulfuric Acid Solution in Carbon Micropores

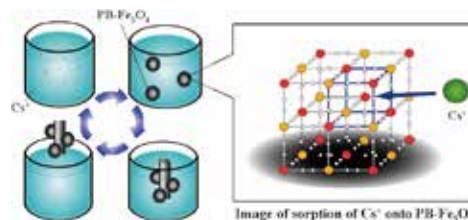
Ryusuke Futamura, Taku Iiyama, Atom Hamasaki, and Sumio Ozeki  
*Chem. Lett.* **2012**, *41*, 159–161.



S. Tanaka

### Magnetic Separation of Cesium Ion Using Prussian Blue Modified Magnetite

Takahiro Sasaki and Shunitz Tanaka  
*Chem. Lett.* **2012**, *41*, 32–34.



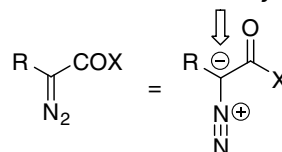


T. Hashimoto

## Development of Synthetic Transformations by Control of Acid-Catalyzed Reactions of Diazocarbonyl Compounds

Takuya Hashimoto and Keiji Maruoka  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1217–1230.

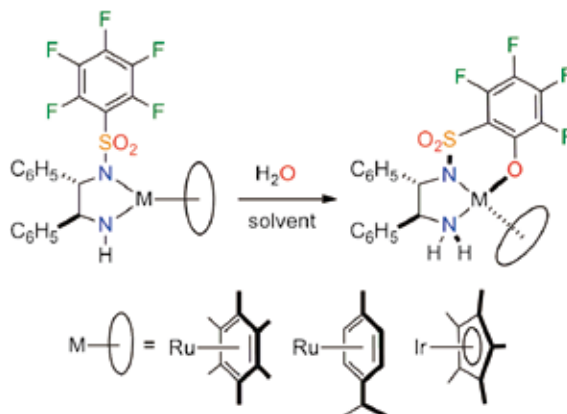
### nucleophilic in acid catalysis



T. Ikariya

## C–F Bond Breaking through Aromatic Nucleophilic Substitution with a Hydroxo Ligand Mediated via Water Bifunctional Activation

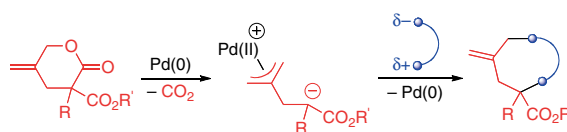
Pavel A. Dub, Hui Wang, Asuka Matsunami, Ilya D. Gridnev, Shigeki Kuwata, and Takao Ikariya  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 557–568.



R. Shintani

## $\gamma$ -Methylidene- $\delta$ -valerolactones: New Reagents for Palladium-Catalyzed Intermolecular Cyclization Reactions

Ryo Shintani  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 931–939.

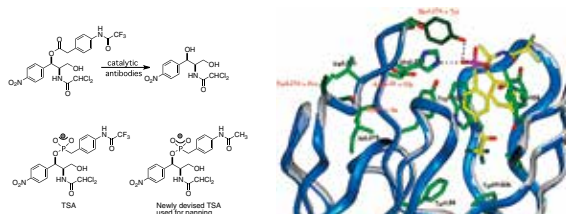




## Directed Evolution of Hydrolytic Antibodies in Phage-displayed Combinatorial Libraries

I. Fujii

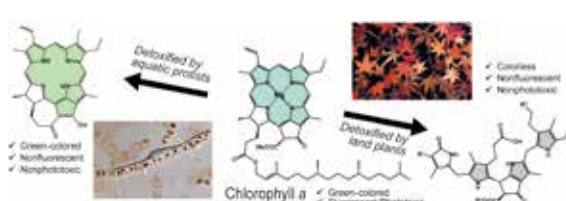
Takeshi Tsumuraya and Ikuo Fujii  
*Chem. Lett.* **2014**, *43*, 272–280.



## Risk Management by Organisms of the Phototoxicity of Chlorophylls

H. Tamiaki

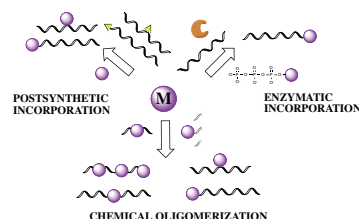
Yuichiro Kashiya and Hitoshi Tamiaki  
*Chem. Lett.* **2014**, *43*, 148–156.



## Metal–Carbon Bonds in Biopolymer Conjugates: Bioorganometallic Nucleic Acid Chemistry

J. H. R. Tucker

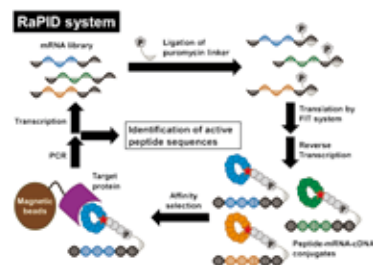
Jean-Louis H. A. Duprey and James H. R. Tucker  
*Chem. Lett.* **2014**, *43*, 157–163.



## Flexizymes-facilitated Genetic Code Reprogramming Leading to the Discovery of Drug-like Peptides

H. Suga

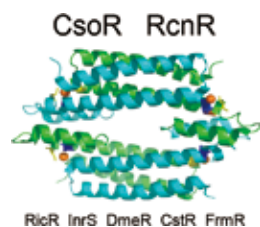
Naohiro Terasaka and Hiroaki Suga  
*Chem. Lett.* **2014**, *43*, 11–19.



## Insights into Protein Allostery in the CsoR/RcnR Family of Transcriptional Repressors

D. Giedroc

Khadine A. Higgins and David Giedroc  
*Chem. Lett.* **2014**, *43*, 20–25.



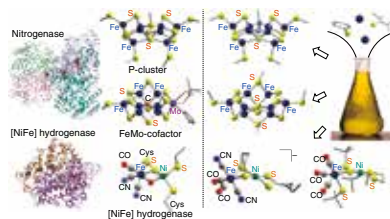


Y. Ohki

### Synthetic Analogues of the Active Sites of Nitrogenase and [NiFe] Hydrogenase

Yasuhiro Ohki

*Bull. Chem. Soc. Jpn.* **2014**, *87*, 1–19.



K. Tanaka

### Chemicals-Inspired Biomaterials: Developing Biomaterials Inspired by Material Science Based on POSS

Kazuo Tanaka and Yoshiki Chujo

*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1231–1239.

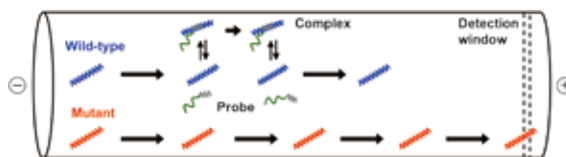


M. Maeda

### DNA-Conjugated Polymers for Reliable SNP Genotyping Based on Affinity Capillary Electrophoresis

Tohru Takarada and Mizuo Maeda

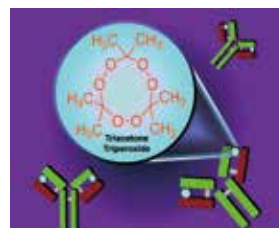
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 547–556.



T. Matsumoto

### Development and Characterization of a Monoclonal Antibody against Triacetone Triperoxide

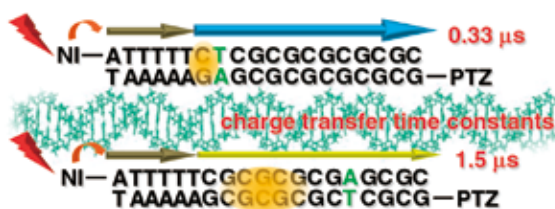
Toru Matsumoto, Hiroyasu Yamaguchi, Ken'ichi Kamijo, Miyako Akiyoshi, Takehiro Matsunaga, and Akira Harada  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 198–202.



K. Kawai

### Kinetics of Charge Transfer through DNA across Guanine–Cytosine Repeats Intervened by Adenine–Thymine Base Pair(s)

Yasuko Osakada, Kiyohiko Kawai, and Tetsuro Majima  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 25–30.







M. Kita

### Bioorganic Studies on the Key Natural Products from Venomous Mammals and Marine Invertebrates

Masaki Kita

*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1175–1185.

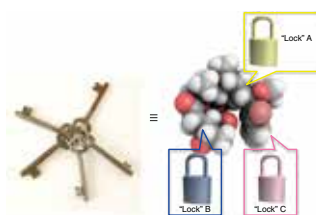


M. Ueda

### Chemical Biology of Natural Products on the Basis of Identification of Target Proteins

Minoru Ueda

*Chem. Lett.* **2012**, *41*, 658–666.

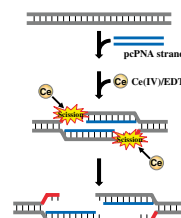


M. Komiyama

### Design and Applications of Artificial Restriction DNA Cutters for Site-Selective Scission of Genomes

Makoto Komiyama and Jun Sumaoka

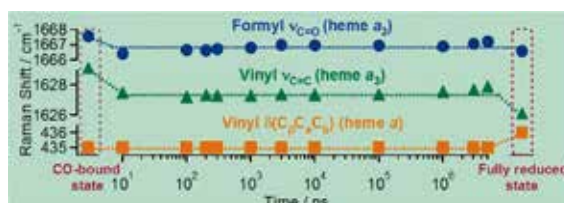
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 533–544.



T. Ogura

### An Intermediate Conformational State during Ligand Binding to Cytochrome *c* Oxidase Detected by Time-resolved Resonance Raman Analyses of Heme Peripheral Groups

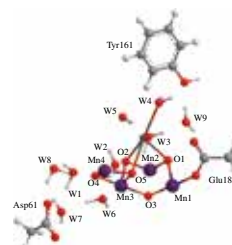
Izumi Ishigami, Takeshi Nishigaki, Kyoko Shinzawa-Itoh, Shinya Yoshikawa, Satoru Nakashima, and Takashi Ogura  
*Chem. Lett.* **2012**, *41*, 178–180.



Y. Yoshioka

### Effectiveness of Optimizing Geometry for CaMn<sub>4</sub>O<sub>5</sub> Cluster at 1.9 Å Resolved OEC and Proposal for Oxidation Mechanism from S<sub>0</sub> to S<sub>3</sub> States

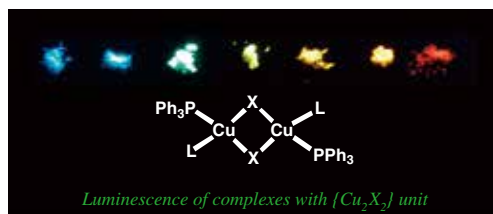
Tomoya Ichino, Kizashi Yamaguchi, and Yasunori Yoshioka  
*Chem. Lett.* **2012**, *41*, 18–20.





## Luminescent Complexes Containing Halogeno-bridged Dicopper(I) Unit $\{\text{Cu}_2(\mu\text{-X})_2\}$ (X = Cl, Br, and I)

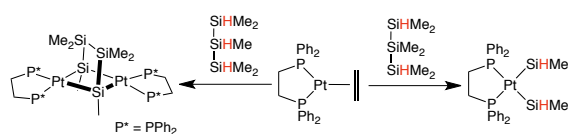
K. Tsuge

**Kiyoshi Tsuge**
*Chem. Lett.* **2013**, *42*, 204–208.


## Formation of Unique Platinum–Silyl Complexes by the Reactions of a Zero-valent Platinum Complex with Various Trisilanes

K. Mochida

 Hidekazu Arai, Makiko Takahashi, Hideyuki Takahashi, **Kunio Mochida**, and Takayuki Kawashima

*Chem. Lett.* **2012**, *41*, 1538–1540.


## Silane(silyl) and Bis(silyl)hydrido Manganese Complexes with Different $\text{Mn}\cdots\text{H}\cdots\text{Si}$ Interaction: Observation of Gradual Si–H Bond Activation on the Metal Center

H. Tobita

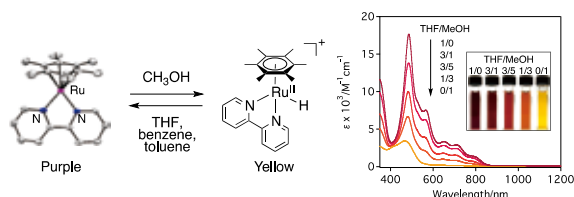
 Takashi Komuro, Satoshi Okawara, Keisuke Furuyama, and **Hiromi Tobita**
*Chem. Lett.* **2012**, *41*, 774–776.

### Gradual Si–H bond activation



## A Neutral Five-coordinated Organoruthenium(0) Complex: X-ray Structure and Unique Solvatochromism

H. Nakai

 Kihun Jeong, Harutaka Nakamori, Shunsuke Imai, Takahiro Matsumoto, **Seiji Ogo**, and **Hidetaka Nakai**
*Chem. Lett.* **2012**, *41*, 650–651.


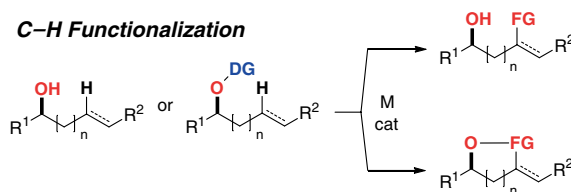


## Alcohols or Masked Alcohols as Directing Groups for C–H Bond Functionalization

G. Dong

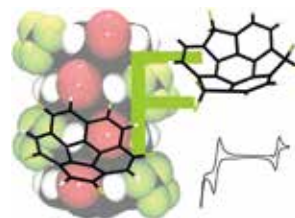
 Fanyang Mo, John R. Tabor, and Guangbin Dong  
*Chem. Lett.* **2014**, 43, 264–271.

### C–H Functionalization



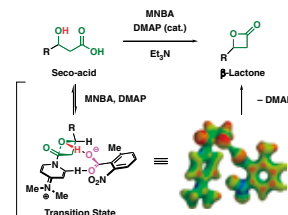
## Syntheses and Properties of Buckybowls Bearing Electron-withdrawing Groups

D. Lentz

 Bernd M. Schmidt and Dieter Lentz  
*Chem. Lett.* **2014**, 43, 171–177.


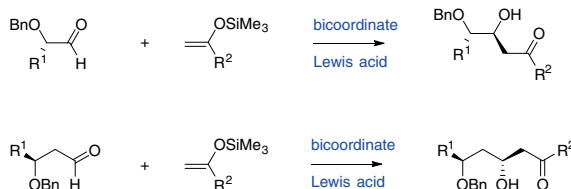
## An Adventurous Synthetic Journey with MNBA from Its Reaction Chemistry to the Total Synthesis of Natural Products

I. Shiina

 Isamu Shiina  
*Bull. Chem. Soc. Jpn.* **2014**, 87, 196–233.


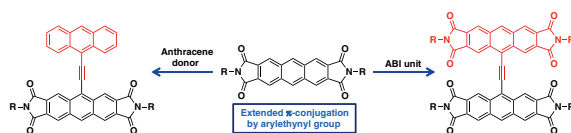
## The Chelation-controlled Mukaiyama Aldol Reaction of Chiral $\alpha$ - and $\beta$ -Alkoxy Aldehydes

M. T. Reetz

 Gheorghe-Doru Roiban, Adriana Ilie, and Manfred T. Reetz  
*Chem. Lett.* **2014**, 43, 2–10.


## Introduction of an Arylethynyl Group onto an Anthracene Bisimide Core for Molecular Design of New $\pi$ -Conjugated Compounds

S. Toyota

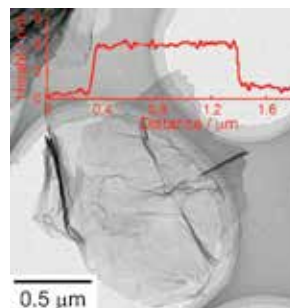
 Tetsuo Iwanaga, Ryo Tanaka, and Shinji Toyota  
*Chem. Lett.* **2014**, 43, 105–107.




S. Takenaka

### Bottom-up Synthesis of Titania and Zirconia Nanosheets and Their Composites with Graphene

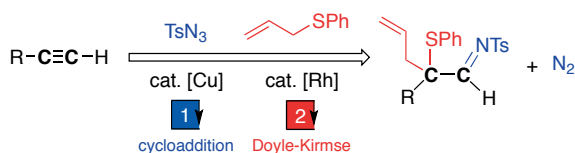
Sakae Takenaka, Shunsuke Uwai, Shintaro Ida, Hideki Matsune, and Masahiro Kishida  
*Chem. Lett.* **2013**, *42*, 1188–1190.



M. Murakami

### Doyle–Kirmse Reaction Using Triazoles Leading to One-pot Multifunctionalization of Terminal Alkynes

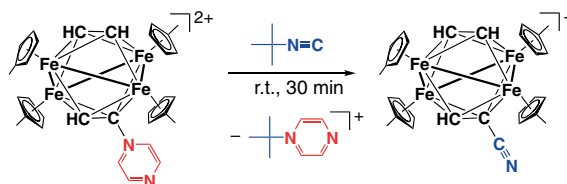
Tomoya Miura, Takamasa Tanaka, Akira Yada, and Masahiro Murakami  
*Chem. Lett.* **2013**, *42*, 1308–1310.



M. Okazaki

### C(sp<sup>3</sup>)–N(sp) Bond Cleavage of Isocyanides at a Cationic [CCH] Subunit in a Bisdisphenoidal Eight-atom Tetrairon–Tetracarbon Cluster

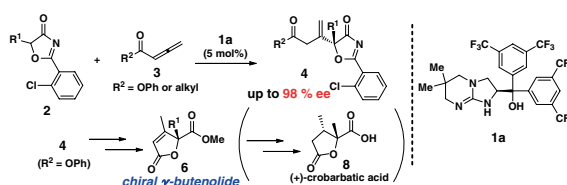
Wataru Taniwaki and Masaaki Okazaki  
*Chem. Lett.* **2013**, *42*, 807–809.



T. Misaki

### 1,4-Addition Reaction of 5*H*-Oxazol-4-ones to Allenic Esters and Ketones Catalyzed by Chiral Guanidines

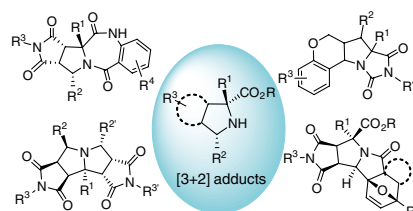
Nari Jin, Tomonori Misaki, and Takashi Sugimura  
*Chem. Lett.* **2013**, *42*, 894–896.



W. Zhang

### 1,3-Dipolar Cycloaddition-based Synthesis of Diverse Heterocyclic Scaffolds

Wei Zhang  
*Chem. Lett.* **2013**, *42*, 676–681.



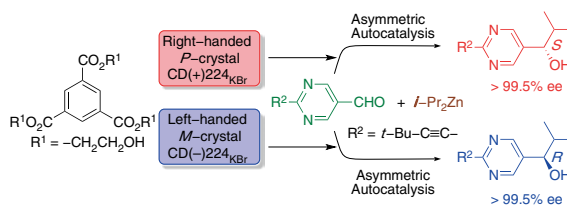




K. Soai

## Enantioselective Synthesis Induced by the Helical Molecular Arrangement in the Chiral Crystal of Achiral Tris(2-hydroxyethyl) 1,3,5-Benzenetricarboxylate in Conjunction with Asymmetric Autocatalysis

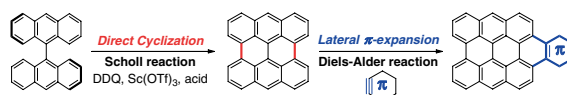
Tsuneomi Kawasaki, Mizuki Uchida, Yoshiyasu Kaimori, Taisuke Sasagawa, Arimasa Matsumoto, and **Kenso Soai**  
*Chem. Lett.* **2013**, *42*, 711–713.



T. Kubo

## Facile Synthesis and Lateral $\pi$ -Expansion of Bisanthenes

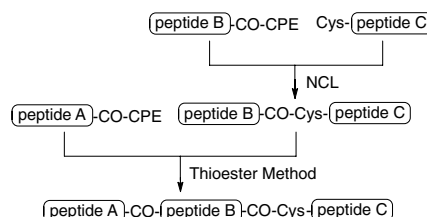
Akihito Konishi, Yasukazu Hirao, Kouzou Matsumoto, Hiroyuki Kurata, and **Takashi Kubo**  
*Chem. Lett.* **2013**, *42*, 592–594.



T. Kawakami

## Sequential Peptide Ligation by Combining the Cys–Pro Ester (CPE) and Thioester Methods and Its Application to the Synthesis of Histone H3 Containing a Trimethyl Lysine Residue

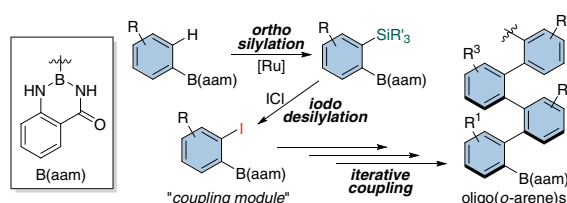
Toru Kawakami, Yuichi Akai, Hisao Fujimoto, Chieko Kita, Yuko Aoki, Takehiko Konishi, Masazumi Waseda, Lisa Takemura, and **Saburo Aimoto**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 690–697.



M. Suginome

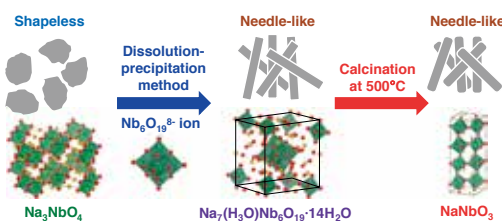
## Anthranilamide-masked o-Iodoarylboronic Acids as Coupling Modules for Iterative Synthesis of ortho-Linked Oligoarenes

Masashi Koyanagi, Nils Eichenauer, Hideki Ihara, Takeshi Yamamoto, and **Michinori Suginome**  
*Chem. Lett.* **2013**, *42*, 541–543.

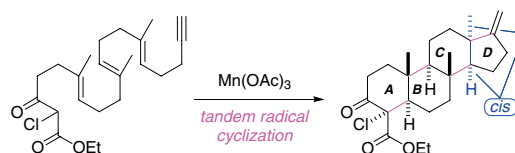




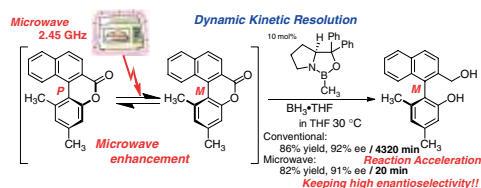
S. Yamazoe

**Needle-like  $\text{NaNbO}_3$  Synthesis via  $\text{Nb}_6\text{O}_{19}^{8-}$  Cluster Using  $\text{Na}_3\text{NbO}_4$  Precursor by Dissolution–Precipitation Method**Seiji Yamazoe, Kengo Shibata, Kazuo Kato, and Takahiro Wada  
*Chem. Lett.* **2013**, *42*, 380–382.

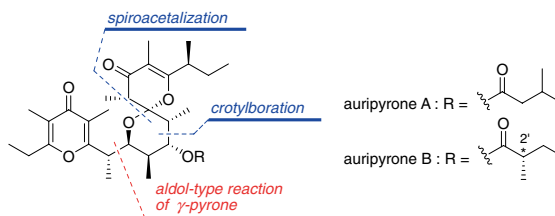
S. Yamashita

**Concise Synthesis of the Tetracyclic Framework of Azadiradione: Tandem Radical Cyclization Route**Shuji Yamashita, Akito Naruko, Takahiro Yamada, Yujiro Hayashi, and Masahiro Hiramata  
*Chem. Lett.* **2013**, *42*, 220–221.

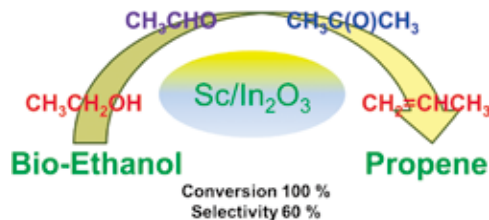
T. Yamada

**Extraordinary Microwave Effect on *atropo*-Enantioselective Catalytic Reduction of Biaryl Lactones**Kazuya Nushiro, Satoshi Kikuchi, and Tohru Yamada  
*Chem. Lett.* **2013**, *42*, 165–167.

H. Kigoshi

**Total Synthesis and Biological Evaluation of Auripyrones A and B**Ichiro Hayakawa, Takuma Takemura, Emi Fukasawa, Yuta Ebihara, Natsuki Sato, Takayasu Nakamura, Kiyotake Suenaga, and Hideo Kigoshi  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1077–1092.

M. Iwamoto

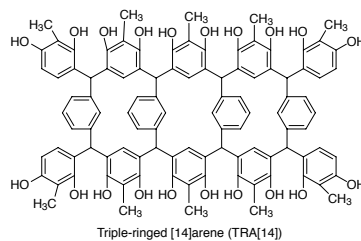
**One-path and Selective Conversion of Ethanol to Propene on Scandium-modified Indium Oxide Catalysts**Shouta Mizuno, Mika Kurosawa, Masashi Tanaka, and Masakazu Iwamoto  
*Chem. Lett.* **2012**, *41*, 892–894.



H. Kudo

### Synthesis of Triple-ringed [14]Arene via Dynamic Covalent Chemistry Mechanism in Condensation Reaction of Phenols with *m*-Benzenedicarbaldehyde

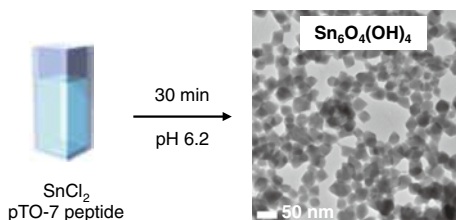
Hiroyuki Seki, Shingo Kuwabara, **Hiroto Kudo**, and Tadatomi Nishikubo  
*Chem. Lett.* **2012**, *41*, 699–701.



T. Serizawa

### Peptide-Induced Formation of Crystalline Sn<sub>6</sub>O<sub>4</sub>(OH)<sub>4</sub> Nanoparticles under Ambient Conditions

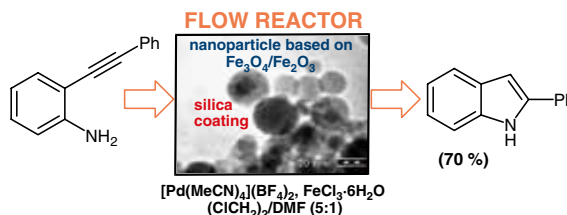
Hisao Matsuno, Yuki Kawashima, and **Takeshi Serizawa**  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 746–752.



A. Kirschning

### New Synthetic Opportunities in Miniaturized Flow Reactors with Inductive Heating

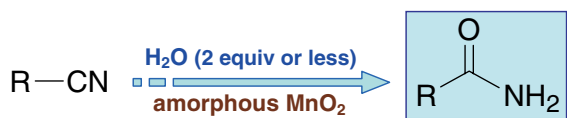
**Andreas Kirschning**, Lukas Kupracz, and Jan Hartwig  
*Chem. Lett.* **2012**, *41*, 562–570.



N. Mizuno

### Efficient Hydration of Nitriles Promoted by Simple Amorphous Manganese Oxide Using Reduced Amounts of Water

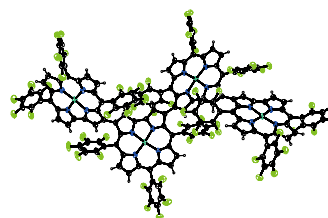
Kazuya Yamaguchi, Ye Wang, Hiroaki Kobayashi, and **Noritaka Mizuno**  
*Chem. Lett.* **2012**, *41*, 574–576.



N. Aratani

### Directly Linked Corrole Oligomers via Facile Oxidative 3–3' Coupling Reaction

Sho Hirabayashi, Masato Omote, **Naoki Aratani**, and **Atsuhiko Osuka**  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 558–562.

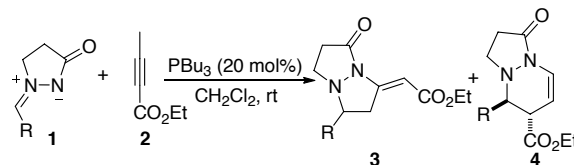




H. Guo

### Phosphine-catalyzed [3 + 2] and [3 + 3] Annulations of Azomethine Imines with Ethyl 2-Butynoate

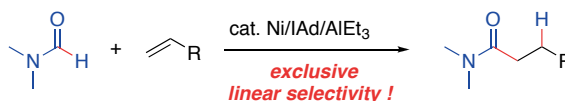
Jun Liu, Honglei Liu, Risong Na, Guiyong Wang, Zhen Li, Hao Yu, Min Wang, Jiangchun Zhong, and Hongchao Guo  
*Chem. Lett.* **2012**, *41*, 218–220.



Y. Nakao

### Regioselective Hydrocarbamoylation of 1-Alkenes

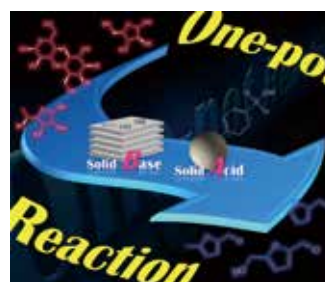
Yosuke Miyazaki, Yuuya Yamada, Yoshiaki Nakao, and Tamejiro Hiyama  
*Chem. Lett.* **2012**, *41*, 298–300.



K. Ebitani

### One-Pot Synthesis of Furans from Various Saccharides Using a Combination of Solid Acid and Base Catalysts

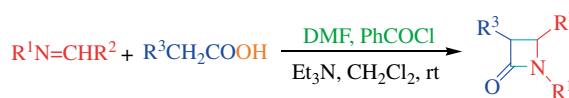
Jaya Tuteja, Shun Nishimura, and Kohki Ebitani  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 275–281.



M. Zarei

### Utilization of DMF–PhCOCl Adduct as an Acid Activator in a New and Convenient Method for Preparation of β-Lactams

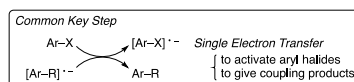
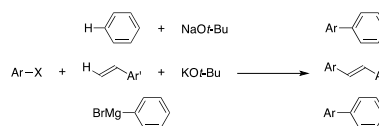
Maarof Zarei  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 360–368.



E. Shirakawa

### Transition-metal-free Coupling Reactions of Aryl Halides

Eiji Shirakawa and Tamio Hayashi  
*Chem. Lett.* **2012**, *41*, 130–134.



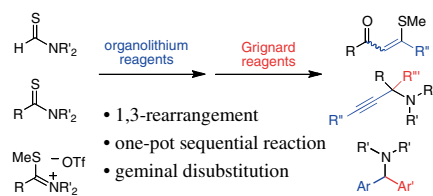




T. Murai

## Thioamides and Thioformamides for Sequential Reactions with Organolithium and Grignard Reagents

Toshiaki Murai and Yuichiro Mutoh  
*Chem. Lett.* **2012**, *41*, 2–8.





Z. Guo

## Robust Superhydrophobic Zinc Oxide Film

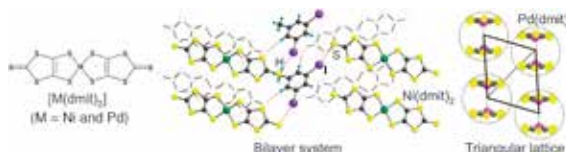
Yan Xin and Zhiguang Guo  
*Chem. Lett.* **2014**, *43*, 305–306.



R. Kato

## Development of $\pi$ -Electron Systems Based on $[M(\text{dmit})_2]$ ( $M = \text{Ni}$ and $\text{Pd}$ ; $\text{dmit}$ : 1,3-dithiole-2-thione-4,5-dithiolate) Anion Radicals

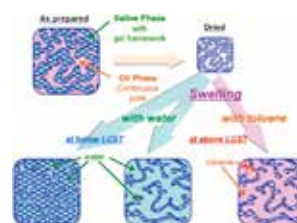
Reizo Kato  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 355–374.



M. Kunitake

## Continuous Porous Poly(*N*-isopropylacrylamide) Gels Prepared from a Bicontinuous Microemulsion

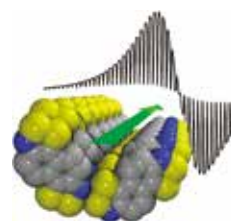
Kouhei Sakata, Shun Taguchi, Shinobu Uemura, Masashi Kunitake, Shintaro Kawano, and Taisei Nishimi  
*Chem. Lett.* **2014**, *43*, 240–242.



K. Awaga

## Electron-Transfer Processes in Highly-Correlated Electron Systems of Thiazyl Radicals

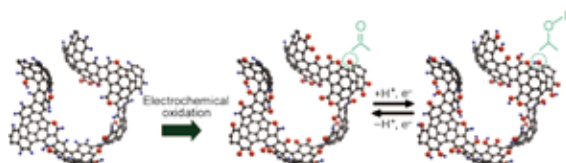
Kunio Awaga, Kenji Nomura, Hideo Kishida, Wataru Fujita, Hirofumi Yoshikawa, Michio M. Matsushita, Laigui Hu, Yoshiaki Shuku, and Rie Suizu  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 234–249.



H. Nishihara

## Large Pseudocapacitance in Quinone-Functionalized Zeolite-Templated Carbon

Hiroyuki Itoi, Hiroto Nishihara, Takafumi Ishii, Khanin Nueangnoraj, Raúl Berenguer-Berrián, and Takashi Kyotani  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 250–257.





K. Ariga

## Layer-by-layer Nanoarchitectonics: Invention, Innovation, and Evolution

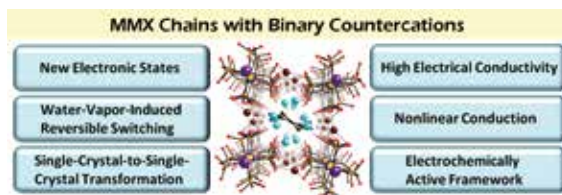
Katsuhiko Ariga, Yusuke Yamauchi, Gauthier Rydzek, Qingmin Ji, Yusuke Yonamine, Kevin C.-W. Wu, and Jonathan P. Hill  
*Chem. Lett.* **2014**, *43*, 36–68.



M. Yamashita

## Recent Progress in MMX-Chain Complexes: Unique Electronic States and Characteristics Developed by Introducing Binary Counteranions

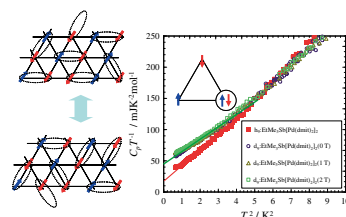
Hiroaki Iguchi, Shinya Takaishi, and Masahiro Yamashita  
*Chem. Lett.* **2014**, *43*, 69–79.



Y. Nakazawa

## Thermodynamics of a Liquid-like Spin State in Molecule-based Magnets with Geometric Frustrations

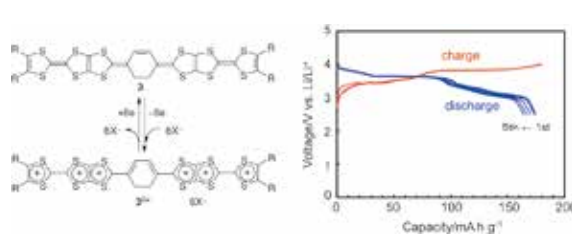
Yasuhiro Nakazawa and Satoshi Yamashita  
*Chem. Lett.* **2013**, *42*, 1446–1454.



Y. Misaki

## A Tris-fused Tetrathiafulvalene Extended with Cyclohexene-1,4-diylidene: A New Positive Electrode Material for Organic Rechargeable Batteries

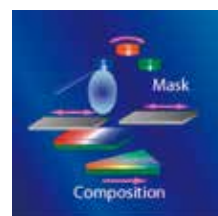
Minami Kato, Daisuke Ogi, Masaru Yao, and Yohji Misaki  
*Chem. Lett.* **2013**, *42*, 1556–1558.



M. Kawasaki

## Exploration of Electronic Functionalities in Metal Oxides by Combinatorial Lattice Engineering

Masashi Kawasaki  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1341–1358.

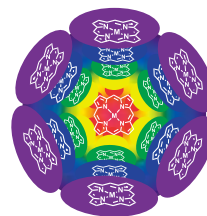




M. Kozaki

## Dendritic Light-harvesting Antennas with Excitation Energy Gradients

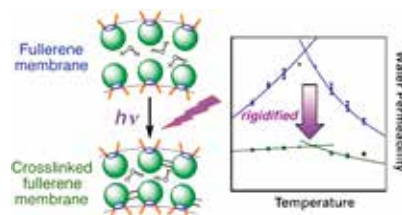
Masatoshi Kozaki, Shuichi Suzuki, and Keiji Okada  
*Chem. Lett.* **2013**, *42*, 1112–1118.



E. Nakamura

## Photocrosslinking of Fullerene Vesicles that Prevents Phase Transition and Decreases Water Permeability

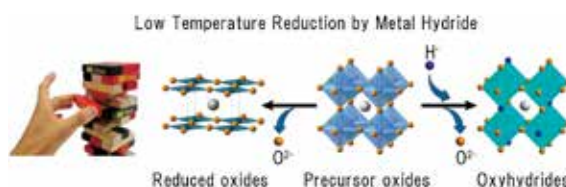
Koji Harano, Akimitsu Narita, and Eiichi Nakamura  
*Chem. Lett.* **2013**, *42*, 1176–1178.



H. Kageyama

## Hydride Reductions of Transition Metal Oxides

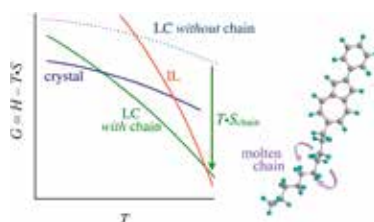
Takafumi Yamamoto and Hiroshi Kageyama  
*Chem. Lett.* **2013**, *42*, 946–953.



K. Saito

## Universality of Molten State of Alkyl Chain in Liquid-Crystalline Mesophases: Smectic E Phase of 6-Alkyl-2-phenylazulene

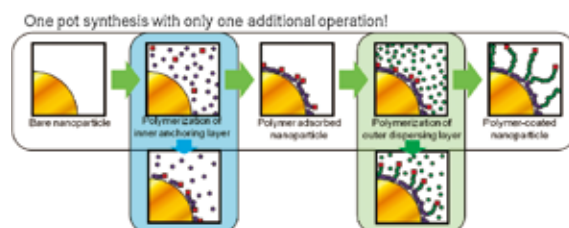
Takuya Adachi, Hideki Saitoh, Yasuhisa Yamamura, Mafumi Hishida, Mao Ueda, Shunji Ito, and Kazuya Saito  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1022–1027.



T. Arita

## Efficient Production of Block-copolymer-coated Ceramic Nanoparticles by Sequential Reversible Addition–Fragmentation Chain-transfer Polymerizations with Particles (SqRAFTwP)

Toshihiko Arita  
*Chem. Lett.* **2013**, *42*, 801–803.



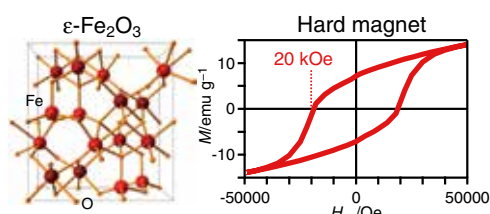




S. Ohkoshi

### Hard Magnetic Ferrite: $\epsilon$ -Fe<sub>2</sub>O<sub>3</sub>

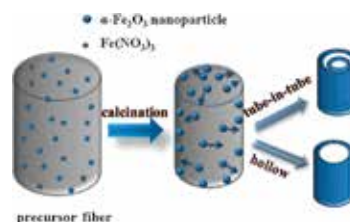
**Shin-ichi Ohkoshi and Hiroko Tokoro**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 897–907.



Z. Xu

### Controllable Synthesis of Porous $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Microtube and Tube-in-tube by Non-coaxial Electrospinning

**Leiming Lang and Zheng Xu**  
*Chem. Lett.* **2013**, *42*, 750–752.



S. Kitagawa

### Control over Flexibility of Entangled Porous Coordination Frameworks by Molecular and Mesoscopic Chemistries

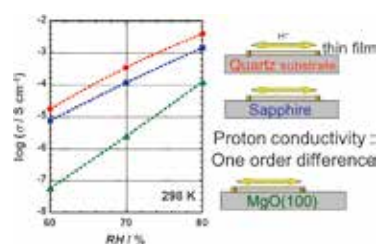
**Shuhei Furukawa, Yoko Sakata, and Susumu Kitagawa**  
*Chem. Lett.* **2013**, *42*, 570–576.



Y. Nagao

### Substrate Dependence of the Proton Transport and Oriented Structure in Oligo[(1,2-propanediamine)-*alt*-(oxalic acid)] Thin Films

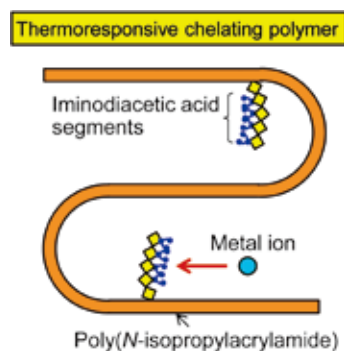
**Yuki Nagao**  
*Chem. Lett.* **2013**, *42*, 468–470.



T. Saitoh

### Preconcentration of Trace Metals in Water Using a Newly Designed Thermoresponsive Chelating Polymer for the Sensitive Determination by Graphite Furnace Atomic Absorption Spectrometry

**Tohru Saitoh, Akihiro Arakawa, and Masataka Hiraide**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 438–444.

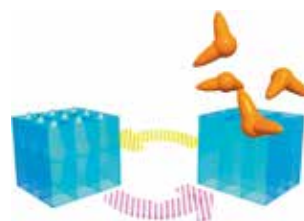




### Controlled Encapsulation of Photoresponsive Macromolecules in Porous Coordination Polymer

T. Uemura

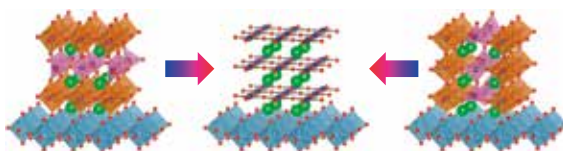
Takashi Uemura, Gosuke Washino, Nobuhiro Yanai, and Susumu Kitagawa  
*Chem. Lett.* **2013**, *42*, 222–223.



### Reduction and Oxidation of Transition-Metal Oxide Thin Films: Solid-State Chemistry with Epitaxially Grown Thin Films

Y. Shimakawa

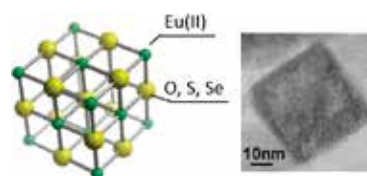
Yuichi Shimakawa  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 299–311.



### Magnetic Semiconductor EuO, EuS, and EuSe Nanocrystals for Future Optical Devices

Y. Hasegawa

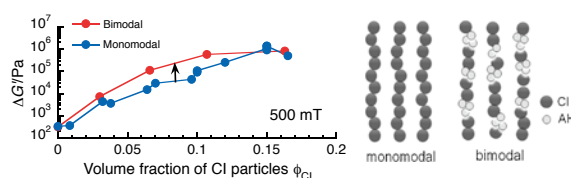
Yasuchika Hasegawa  
*Chem. Lett.* **2013**, *42*, 2–7.



### Magnetoelastic Behavior of Bimodal Magnetic Hydrogels Using Nonmagnetic Particles

T. Mitsumata

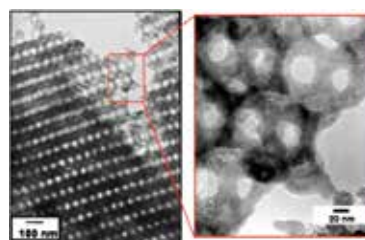
Suguru Ohori, Kouko Fujisawa, Mika Kawai, and Tetsu Mitsumata  
*Chem. Lett.* **2013**, *42*, 50–51.



### 3D-ordered Nanoporous LiMPO<sub>4</sub> (M = Fe, Mn)-Carbon Composites with Excellent Charging-Discharging Rate-capability

I. Moriguchi

Isamu Moriguchi, Shohei Nabeyoshi, Mayato Izumi, and Hirotochi Yamada  
*Chem. Lett.* **2012**, *41*, 1639–1641.

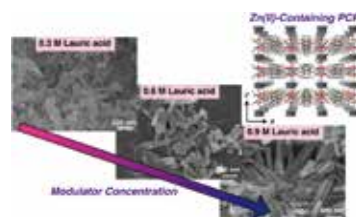




S. Kitagawa

### Formation of Nanocrystals of a Zinc Pillared-layer Porous Coordination Polymer Using Microwave-assisted Coordination Modulation

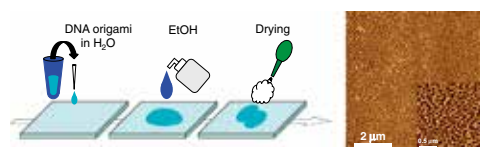
Yoko Sakata, Shuhei Furukawa, Chiwon Kim, and Susumu Kitagawa  
*Chem. Lett.* **2012**, *41*, 1436–1438.



T. Matsumoto

### Emergence of High-density DNA Origami Network by Dewetting with a Binary Solvent

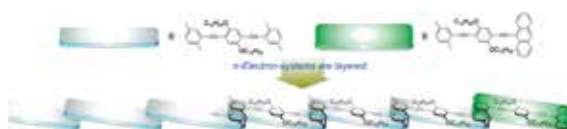
Yoshiaki Hirano, Kaoru Ojima, Yusuke Miyake, Tomoji Kawai, and Takuya Matsumoto  
*Chem. Lett.* **2012**, *41*, 1459–1461.



Y. Morisaki

### $\pi$ -Electron-system-layered Polymers Based on [2.2]Paracyclophane

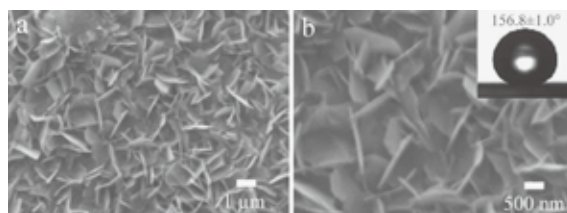
Yasuhiro Morisaki and Yoshiki Chujo  
*Chem. Lett.* **2012**, *41*, 840–846.



Y. Zhang

### In Situ Fabrication of Superhydrophobic Zinc Sulfide Films on a Flexible Zinc Foil Substrate

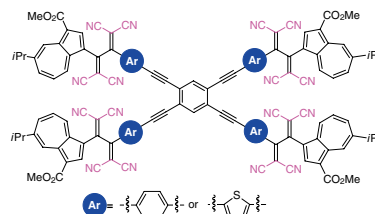
Yidong Zhang and Liwei Mi  
*Chem. Lett.* **2012**, *41*, 915–916.



T. Shoji

### Synthesis and Properties of Mono-, Bis-, Tris-, and Tetrakis[1,1,4,4-tetracyano-2-(1-azulenyl)-1,3-butadien-3-yl] Chromophores Connected to a Benzene Ring by Phenylethynyl- and 2-Thienylethynyl Spacers

Taku Shoji, Mitsuhsa Maruyama, Shunji Ito, and Noboru Morita  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 761–773.





### Spontaneous Motion of *o*-Toluidine Droplets: Repetitive Motion of Running and Squashing

B. Nanzai

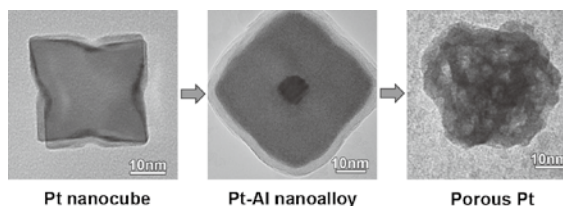
Ben Nanzai, Ryotaro Ishikawa, and Manabu Igawa  
*Chem. Lett.* **2012**, *41*, 609–611.



### Formation of Porous Pt Nanoparticles through Core–Shell Pt–Al Nanoalloys and Wet Chemical Etching

T. Shimoda

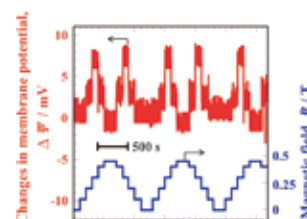
Zhongrong Shen, Yasuo Matsuki, Koichi Higashimine, Mikio Miyake, and Tatsuya Shimoda  
*Chem. Lett.* **2012**, *41*, 644–646.



### Colloid and Interface Chemistry under Magnetic Fields

S. Ozeki

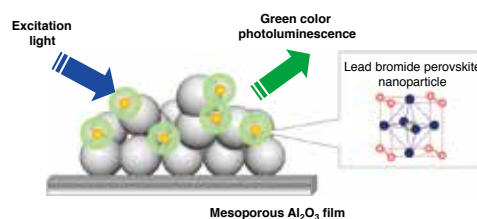
Ayumi Sakaguchi, Atom Hamasaki, and Sumio Ozeki  
*Chem. Lett.* **2012**, *41*, 342–348.



### Highly Luminescent Lead Bromide Perovskite Nanoparticles Synthesized with Porous Alumina Media

A. Kojima

Akihiro Kojima, Masashi Ikegami, Kenjiro Teshima, and Tsutomu Miyasaka  
*Chem. Lett.* **2012**, *41*, 397–399.



### Development of Three-Dimensional Tissue Models Based on Hierarchical Cell Manipulation Using Nanofilms

M. Matsusaki

Michiya Matsusaki  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 401–414.



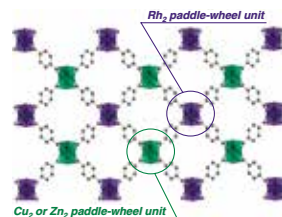




S. Matsunaga

## Hetero Bi-Paddle-Wheel Coordination Networks: A New Synthetic Route to Rh-Containing Metal–Organic Frameworks

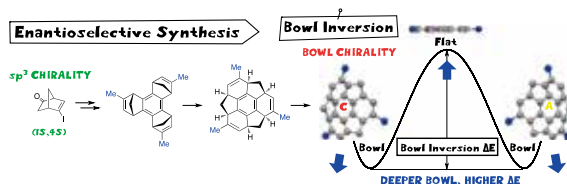
Satoshi Matsunaga, Ken-ichi Hasada, Kenji Sugiura, Naoki Kitamura, Yuri Kudo, Nanako Endo, and Wasuke Mori  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 433–438.



H. Sakurai

## Trimethylsumanene: Enantioselective Synthesis, Substituent Effect on Bowl Structure, Inversion Energy, and Electron Conductivity

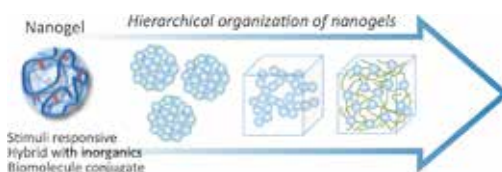
Shuhei Higashibayashi, Ryoji Tsuruoka, Yarasi Soujanya, Uppula Purushotham, G. Narahari Sastry, Shu Seki, Takeharu Ishikawa, Shinji Toyota, and Hidehiro Sakurai  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 450–467.



K. Akiyoshi

## Self-assembled Nanogel Engineering for Advanced Biomedical Technology

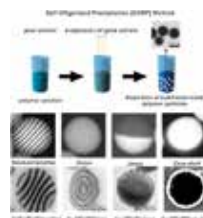
Yoshihiro Sasaki and Kazunari Akiyoshi  
*Chem. Lett.* **2012**, *41*, 202–208.



H. Yabu

## Creation of Functional and Structured Polymer Particles by Self-Organized Precipitation (SORP)

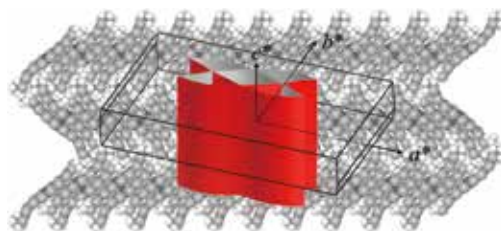
Hiroshi Yabu  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 265–274.



A. Kobayashi

## Single-component Layered Molecular Conductor, [Au(ptdt)<sub>2</sub>]

Biao Zhou, Hiroyuki Yajima, Yuki Idobata, Akiko Kobayashi, Tetsuya Kobayashi, Eiji Nishibori, Hiroshi Sawa, and Hayao Kobayashi  
*Chem. Lett.* **2012**, *41*, 154–156.



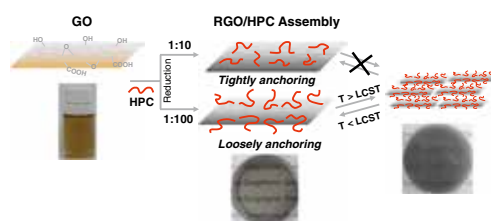




I. In

### Temperature-dependent Optical Transmittance of Chemically Reduced Graphene Oxide/Hydroxypropyl Cellulose Assembly

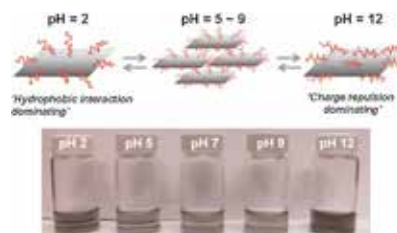
Min Young Yeo, Sung Young Park, and Insik In  
*Chem. Lett.* **2012**, *41*, 197–199.



I. In

### pH-Responsive Optical Modulation of Chemically Reduced Graphene through Noncovalent Interaction with Poly(acrylic acid)

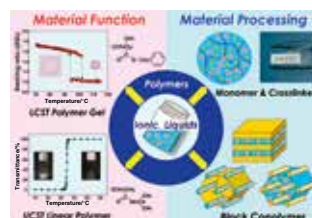
Jung Yup Lee and Insik In  
*Chem. Lett.* **2012**, *41*, 127–128.



M. Watanabe

### Polymers in Ionic Liquids: Dawn of Neoteric Solvents and Innovative Materials

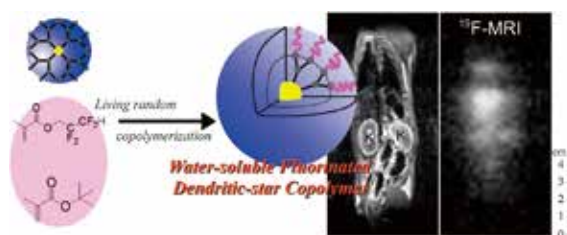
Takeshi Ueki and Masayoshi Watanabe  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 33–50.



H. Aoki

### Water-Soluble Fluorinated Polymer Nanoparticle as $^{19}\text{F}$ MRI Contrast Agent Prepared by Living Random Copolymerization from Dendrimer Initiator

Michihiro Ogawa, Hiromasa Kataoka, Satoshi Nitahara, Hiroyuki Fujimoto, Hiroyuki Aoki, Shinzaburo Ito, Michiko Narazaki, and Tetsuya Matsuda  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 79–86.

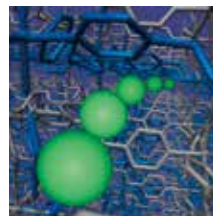




## Design and Synthesis of Porous Coordination Polymers Showing Unique Guest Adsorption Behaviors

R. Matsuda

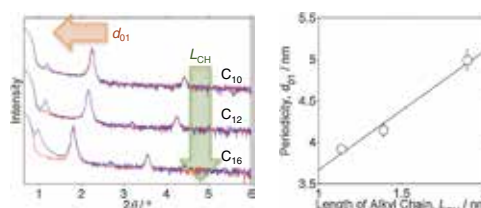
Ryotaro Matsuda

*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1117–1131.

## Control of Periodicity in Mesoporous Silica Films with Aligned Mesochannels Prepared by a Sol–Gel Process

H. Miyata

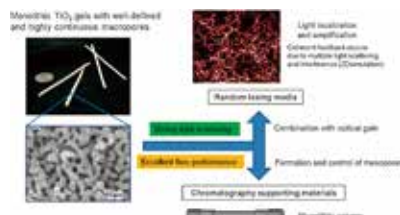
Atsushi Komoto, Wataru Kubo, and Hirokatsu Miyata

*Chem. Lett.* **2012**, *41*, 741–743.

## Development of Non-Siliceous Porous Materials and Emerging Applications

K. Fujita

Koji Fujita

*Bull. Chem. Soc. Jpn.* **2012**, *85*, 415–432.

## Nanoarchitectonics for Mesoporous Materials

K. Ariga

Katsuhiko Ariga, Ajayan Vinu, Yusuke Yamauchi, Qingmin Ji, and Jonathan P. Hill

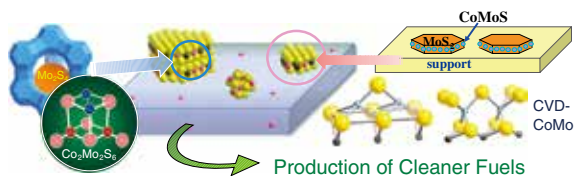
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1–32.



Y. Okamoto

**Novel Molecular Approaches to the Structure–Activity Relationships and Unique Characterizations of Co–Mo Sulfide Hydrodesulfurization Catalysts for the Production of Ultraclean Fuels**

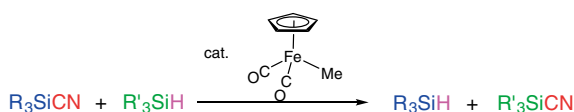
Yasuaki Okamoto  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 20–58.



H. Nakazawa

**Si–CN Bond Cleavage of Silyl Cyanides by an Iron Catalyst. A New Route of Silyl Cyanide Formation**

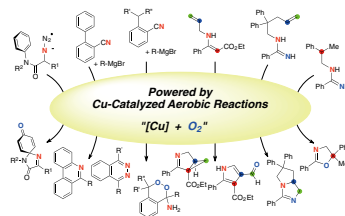
Andrea Renzetti, Nobuaki Koga, and Hiroshi Nakazawa  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 59–68.



S. Chiba

**Cu-Catalyzed Aerobic Molecular Transformation of Imine and Enamine Derivatives for Synthesis of Azaheterocycles**

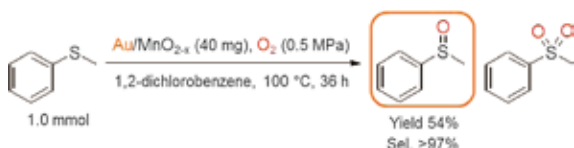
Shunsuke Chiba  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1400–1411.



M. Haruta

**Aerobic Oxidation of Sulfides to Sulfoxides Catalyzed by Gold/Manganese Oxides**

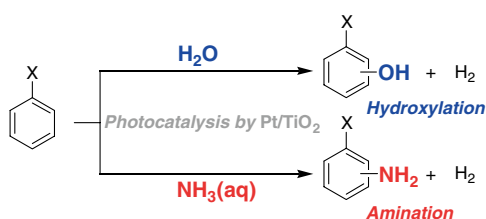
Ayako Taketoshi, Patricia Concepción, Hermenegildo García, Avelino Corma, and Masatake Haruta  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1412–1418.



H. Yoshida

**Direct Functionalization of Aromatic Rings on Platinum-loaded Titanium Oxide Photocatalyst**

Hayato Yuzawa and Hisao Yoshida  
*Chem. Lett.* **2013**, *42*, 1336–1343.

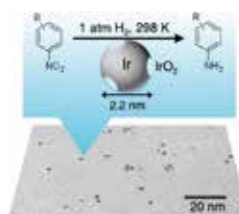




### Selective Hydrogenation of Nitroaromatics by Colloidal Iridium Nanoparticles

T. Tsukuda

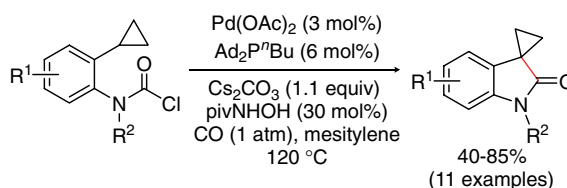
Md. J. Sharif, Prasenjit Maity, Seiji Yamazoe, and **Tatsuya Tsukuda**  
*Chem. Lett.* **2013**, *42*, 1023–1025.



### Synthesis of Spirooxindoles from Carbamoyl Chlorides via Cyclopropyl Methine C(sp<sup>3</sup>)–H Activation Using Palladium Catalyst

C. Tsukano

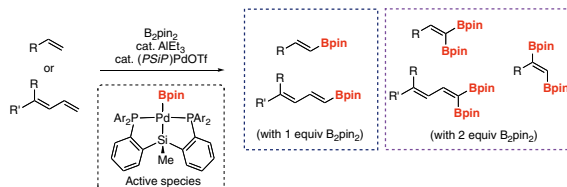
Chihiro Tsukano, Masataka Okuno, and **Yoshiji Takemoto**  
*Chem. Lett.* **2013**, *42*, 753–755.



### PSiP-Pincer Type Palladium-Catalyzed Dehydrogenative Borylation of Alkenes and 1,3-Dienes

N. Iwasawa

Naohiro Kirai, Shoichiro Iguchi, Tatsuyoshi Ito, Jun Takaya, and **Nobuharu Iwasawa**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 784–799.



### Remarkable Effect of Bases on Core-Shell AgNP@CeO<sub>2</sub> Nanocomposite-catalyzed Highly Chemoselective Reduction of Unsaturated Aldehydes

K. Kaneda

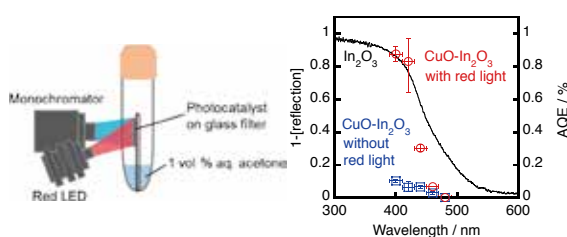
Takato Mitsudome, Motoshi Matoba, Masaaki Yamamoto, Tomoo Mizugaki, Koichiro Jitsukawa, and **Kiyotomi Kaneda**  
*Chem. Lett.* **2013**, *42*, 660–662.



### Effects of Copper(II) Oxide Addition and Red Light Irradiation on Photocatalytic Activity of Indium Oxide under Irradiation of Visible Light

H. Kominami

Yasutomo Sasaki, Atsuhiro Tanaka, Keiji Hashimoto, and **Hiroshi Kominami**  
*Chem. Lett.* **2013**, *42*, 419–421.

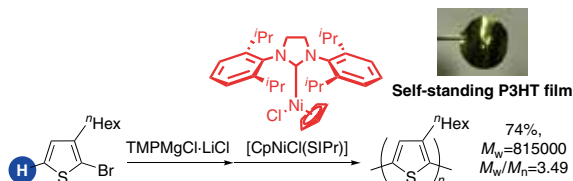




A. Mori

### Synthesis of High-molecular-weight Head-to-tail-type Poly(3-substituted-thiophene)s by Cross-coupling Polycondensation with [CpNiCl(NHC)] as a Catalyst

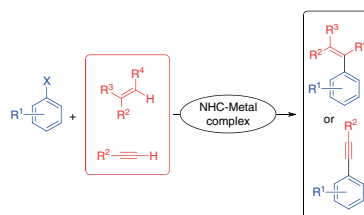
Shunsuke Tamba, Kanta Fuji, Hikaru Meguro, Shuji Okamoto, Tadashi Tendo, Ryo Komobuchi, Atsushi Sugie, Takashi Nishino, and **Atsunori Mori**  
*Chem. Lett.* **2013**, *42*, 281–283.



M. Yus

### Heterocyclic Carbene–Metal-catalyzed Csp<sup>2</sup>–Csp<sup>2</sup> and Csp–Csp<sup>2</sup> Couplings Using Nonmetallic Substrates

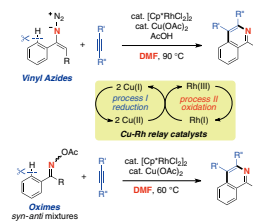
**Miguel Yus** and **Isidro M. Pastor**  
*Chem. Lett.* **2013**, *42*, 94–108.



S. Chiba

### Cu–Rh Redox Relay Catalysts for Synthesis of Azaheterocycles via C–H Functionalization

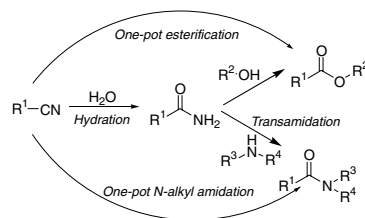
**Shunsuke Chiba**  
*Chem. Lett.* **2012**, *41*, 1554–1559.



K. Shimizu

### CeO<sub>2</sub>-catalyzed Transformations of Nitriles and Amides

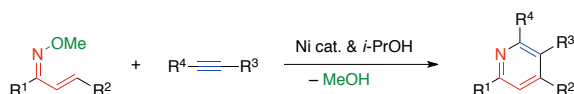
Masazumi Tamura, **Ken-ichi Shimizu**, and Atsushi Satsuma  
*Chem. Lett.* **2012**, *41*, 1397–1405.



T. Kurahashi

### Nickel-catalyzed Cycloaddition of $\alpha,\beta$ -Unsaturated Oximes with Alkynes: Synthesis of Highly Substituted Pyridine Derivatives

Yuji Yoshida, **Takuya Kurahashi**, and **Seijiro Matsubara**  
*Chem. Lett.* **2012**, *41*, 1498–1499.



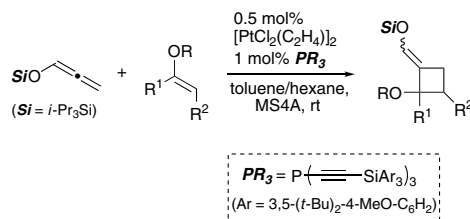




N. Iwasawa

### Selective Intermolecular [2 + 2] Cycloaddition Reaction Using Platinum(II) Catalyst with Hollow-shaped Triethynylphosphine

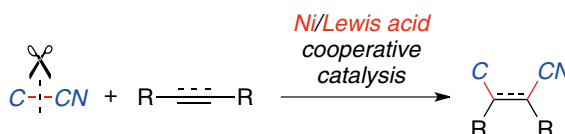
Masaru Ebisawa, Hiroyuki Kusama, and Nobuharu Iwasawa  
*Chem. Lett.* **2012**, *41*, 786–788.



Y. Nakao

### Nickel/Lewis Acid-Catalyzed Carbocyanation of Unsaturated Compounds

Yoshiaki Nakao  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 731–745.



H. Sakurai

### Anomalous Efficacy of Bimetallic Au/Pd Nanoclusters in C–Cl Bond Activation and Formal Metathesis-type C–B Bond Activation at Room Temperature

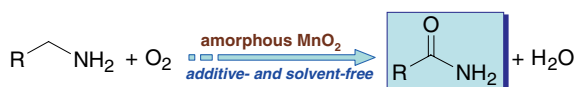
Raghu Nath Dhital and Hidehiro Sakurai  
*Chem. Lett.* **2012**, *41*, 630–632.



N. Mizuno

### Manganese Oxide-catalyzed Additive- and Solvent-free Aerobic Oxidative Synthesis of Primary Amides from Primary Amines

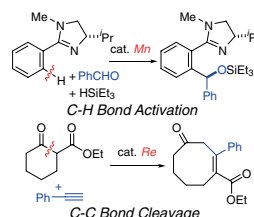
Kazuya Yamaguchi, Ye Wang, and Noritaka Mizuno  
*Chem. Lett.* **2012**, *41*, 633–635.



Y. Kuninobu

### Development of Novel and Highly Efficient Methods to Construct Carbon–Carbon Bonds Using Group 7 Transition-Metal Catalysts

Yoichiro Kuninobu and Kazuhiko Takai  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 656–671.

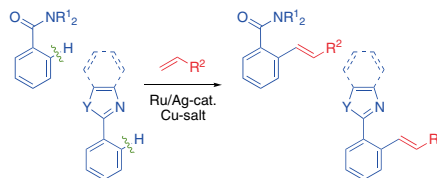




T. Satoh

### Ru/Ag-Catalyzed Oxidative Alkenylation of Benzamides and Phenylazoles through Regioselective C–H Bond Cleavage

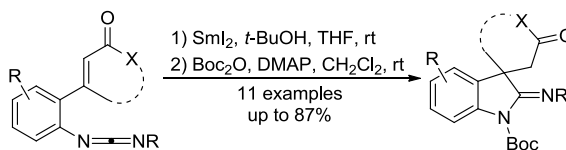
Yuto Hashimoto, Timon Ortloff, Koji Hirano, **Tetsuya Satoh**, Carsten Bolm, and **Masahiro Miura**  
*Chem. Lett.* **2012**, *41*, 151–153.



Y. Takemoto

### Synthesis of 2-Iminoindolines via Samarium Diodide Mediated Reductive Cyclization of Carbodiimides

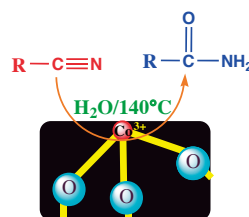
Takayuki Ishida, Chihiro Tsukano, and **Yoshiji Takemoto**  
*Chem. Lett.* **2012**, *41*, 44–46.



B. Gopal

### Spinel Cobalt Oxide Catalyzed Controlled Hydration of Aromatic Nitriles

Yuvaraj Gangarajula and **Buvaneswari Gopal**  
*Chem. Lett.* **2012**, *41*, 101–103.

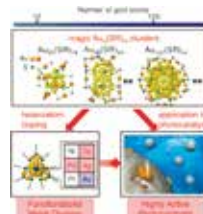




Y. Negishi

## Toward the Creation of Functionalized Metal Nanoclusters and Highly Active Photocatalytic Materials Using Thiolate-Protected Magic Gold Clusters

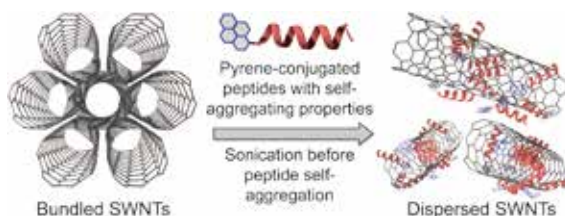
Yuichi Negishi  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 375–389.



T. Serizawa

## Aqueous Dispersion of Carbon Nanotubes Using Self-aggregating Peptides

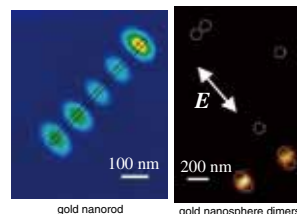
Dukeun Kim, Toshiki Sawada, and Takeshi Serizawa  
*Chem. Lett.* **2014**, *43*, 102–104.



H. Okamoto

## Nano-optical Studies on Physical and Chemical Characteristics of Noble Metal Nanostructures

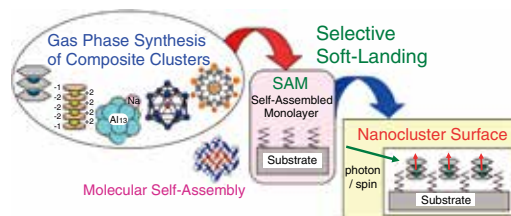
Hiromi Okamoto  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 397–413.



A. Nakajima

## Study on Electronic Properties of Composite Clusters toward Nanoscale Functional Advanced Materials

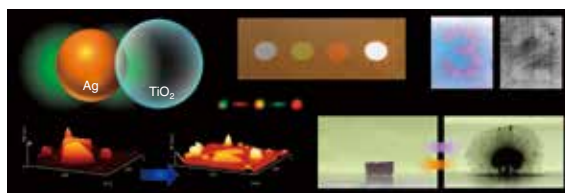
Atsushi Nakajima  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 414–437.



T. Tatsuma

## Plasmonic Photoelectrochemistry: Functional Materials Based on Photoinduced Reversible Redox Reactions of Metal Nanoparticles

Tetsu Tatsuma  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1–9.

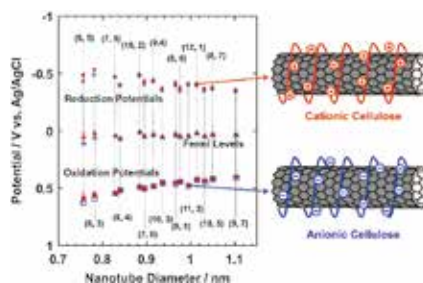




### Effect of Charge of a Matrix Polymer on the Electronic States of Single-Walled Carbon Nanotubes

N. Nakashima

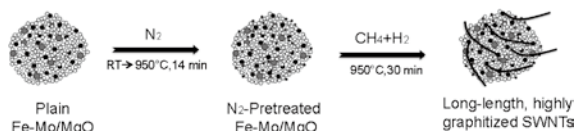
Yasuhiko Hirana, Yasuro Niidome, and Naotoshi Nakashima  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1262–1267.



### CVD Synthesis of Highly Graphitized Single-walled Carbon Nanotubes Using Nitrogen-pretreated Fe-Mo/MgO Catalyst

S. Gokhale

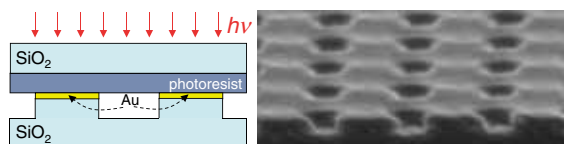
Gaurav Patil, Chetan Sarode, Rahul Patil, and Suresh Gokhale  
*Chem. Lett.* **2012**, *41*, 871–873.



### Fabrication of Nanoengineered Metallic Structures and Their Application to Nonlinear Photochemical Reactions

K. Ueno

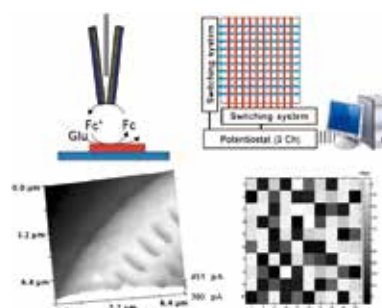
Kosei Ueno and Hiroaki Misawa  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 843–853.



### Development of Biosensing Devices and Systems Using Micro/Nanoelectrodes

T. Matsue

Tomokazu Matsue  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 545–557.



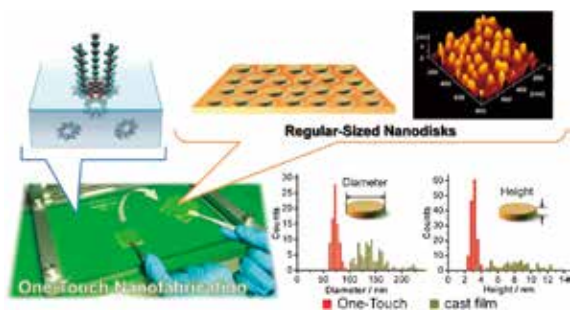


K. Ariga

## One-touch Nanofabrication of Regular-sized Disks through Interfacial Dewetting and Weak Molecular Interaction

Taizo Mori, Keita Sakakibara, Hiroshi Endo, Misaho Akada, Ken Okamoto, Atsuumi Shundo, Michael V. Lee, Qingmin Ji, Takuya Fujisawa, Ken-ichiro Oka, Mutsuyoshi Matsumoto, Hideki Sakai, Masahiko Abe, Jonathan P. Hill, and **Katsuhiko Ariga**

*Chem. Lett.* **2012**, *41*, 170–172.



T. Tsukuda

## Toward an Atomic-Level Understanding of Size-Specific Properties of Protected and Stabilized Gold Clusters

**Tatsuya Tsukuda**

*Bull. Chem. Soc. Jpn.* **2012**, *85*, 151–168.



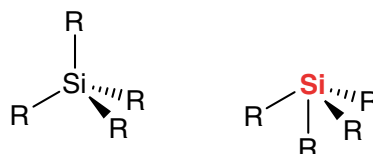




T. Iwamoto

## Silicon Compounds with Inverted Geometry around Silicon Atoms

Takeaki Iwamoto and Shintaro Ishida  
*Chem. Lett.* **2014**, *43*, 164–170.



tetrahedral

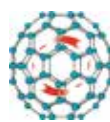
inverted



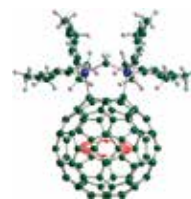
S. Nagase

## Theory and Calculations of Molecules Containing Heavier Main Group Elements and Fullerenes Encaging Transition Metals: Interplay with Experiment

Shigeru Nagase  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 167–195.



La<sub>2</sub>@C<sub>60</sub>



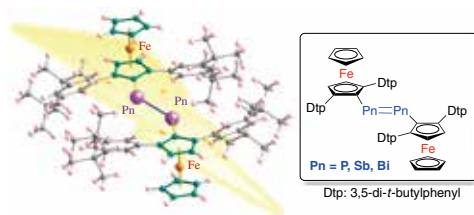
Disilylated La<sub>2</sub>@C<sub>60</sub>



T. Sasamori

## 1,2-Bis(ferrocenyl)dipnictenes: Bimetallic Systems with a Pn=Pn Heavy $\pi$ -Spacer (Pn: P, Sb, and Bi)

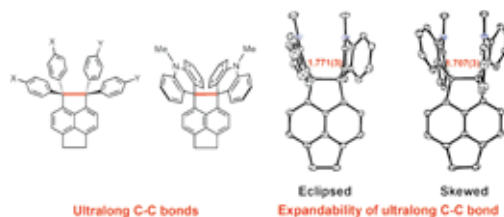
Michiyasu Sakagami, Takahiro Sasamori, Heisuke Sakai, Yukio Furukawa, and Norihiro Tokitoh  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1132–1143.



T. Suzuki

## Hexaphenylethanes with an Ultralong C–C Bond: Expandability of the C–C Bond in Highly Strained Tetraarylpyracenes

Takashi Takeda, Yasuto Uchimura, Hidetoshi Kawai, Ryo Katoono, Kenshu Fujiwara, and Takanori Suzuki  
*Chem. Lett.* **2013**, *42*, 954–962.

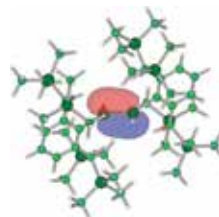




### A New Family of Multiple-Bond Compounds between Heavier Group 14 Elements

T. Sasamori

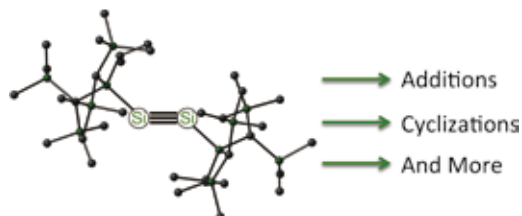
Takahiro Sasamori and Norihiro Tokitoh  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1005–1021.



### Recent Developments in the Reactivity of Stable Disilynes

A. Sekiguchi

Matthew Asay and Akira Sekiguchi  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1245–1261.

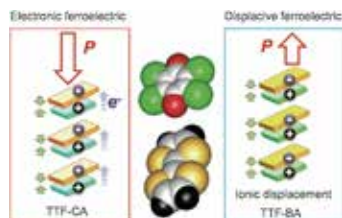




S. Horiuchi

## Ionic versus Electronic Ferroelectricity in Donor–Acceptor Molecular Sequences

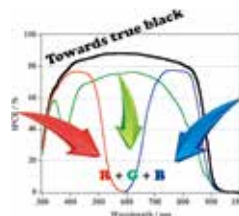
Sachio Horiuchi, Kensuke Kobayashi, Reiji Kumai, and Shoji Ishibashi  
*Chem. Lett.* **2014**, *43*, 26–35.



L. Han

## Cosensitization of Ruthenium–Polypyridyl Dyes with Organic Dyes in Dye-sensitized Solar Cells

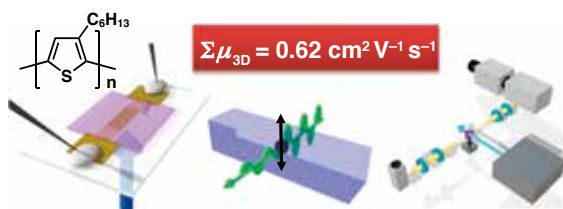
Youhei Numata, Shufang Zhang, Xudong Yang, and Liyuan Han  
*Chem. Lett.* **2013**, *42*, 1328–1335.



S. Seki

## Unprecedented High Local Charge-carrier Mobility in P3HT Revealed by Direct and Alternating Current Methods

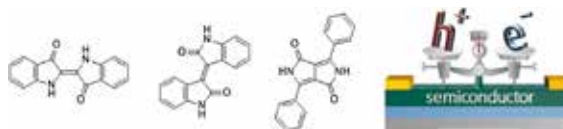
Yoshihiro Yasutani, Akinori Saeki, Takahiro Fukumatsu, Yoshiko Koizumi, and Shu Seki  
*Chem. Lett.* **2013**, *42*, 19–21.



H. Kojima

## Estimated Mobility of Ambipolar Organic Semiconductors, Indigo and Diketopyrrolopyrrole

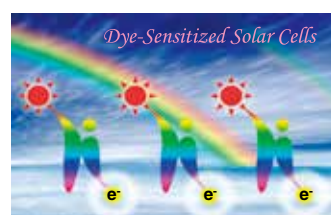
Hiroataka Kojima and Takehiko Mori  
*Chem. Lett.* **2013**, *42*, 68–70.



Y. Ooyama

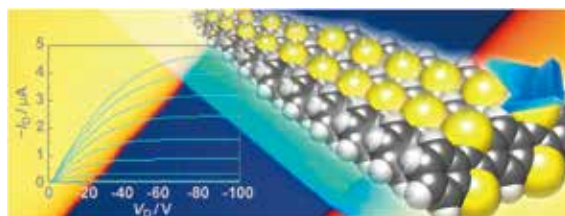
## Control of Molecular Arrangement and/or Orientation of D–π–A Fluorescent Dyes for Dye-sensitized Solar Cells

Yosuke Ooyama, Joji Ohshita, and Yutaka Harima  
*Chem. Lett.* **2012**, *41*, 1384–1396.

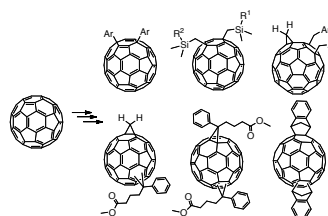




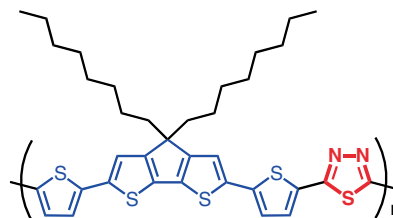
T. Yasuda

**Organic Single-Crystal Transistors Based on  $\pi$ -Extended Heteroheptacene Microribbons**Yu Seok Yang, Takuma Yasuda, and Chihaya Adachi  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1186–1191.

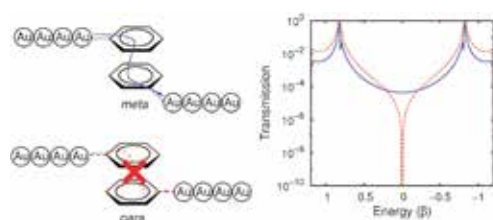
Y. Matsuo

**Design Concept for High-LUMO-level Fullerene Electron-acceptors for Organic Solar Cells**Yutaka Matsuo  
*Chem. Lett.* **2012**, *41*, 754–759.

T. Umeyama

**Synthesis and Photovoltaic Properties of Conjugated Polymer Based on 1,3,4-Thiadiazole Unit**Tomokazu Umeyama, Evgenia Douvogianni, and Hiroshi Imahori  
*Chem. Lett.* **2012**, *41*, 354–356.

K. Yoshizawa

**Orbital Views on Electron-Transport Properties of Cyclophanes: Insight into Intermolecular Transport**Xinqian Li, Aleksandar Staykov, and Kazunari Yoshizawa  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 181–188.

M. Hasegawa

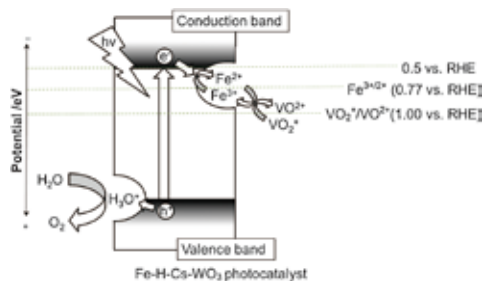
**Face-to-Face Dimeric Tetrathiafulvalenes and Their Cation Radical and Dication Species as Models of Mixed Valence and  $\pi$ -Dimer States**Masashi Hasegawa, Kota Daigoku, Kenro Hashimoto, Hiroyuki Nishikawa, and Masahiko Iyoda  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 51–60.



## Photocatalytic Energy Storage over Surface-modified $\text{WO}_3$ Using $\text{V}^{3+}/\text{V}^{4+}$ Redox Mediator

Y. Miseki

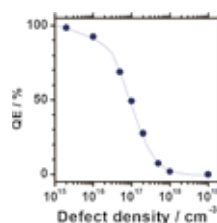
**Yugo Miseki, Hitoshi Kusama, and Kazuhiro Sayama**  
*Chem. Lett.* **2012**, *41*, 1489–1491.



## Kinetic Assessment and Numerical Modeling of Photocatalytic Water Splitting toward Efficient Solar Hydrogen Production

K. Domen

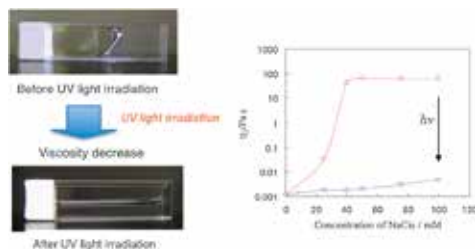
**Takashi Hisatomi, Tsutomu Minegishi, and Kazunari Domen**  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 647–655.



## Photochemical Control of Viscosity Using Sodium Cinnamate as a Photoswitchable Molecule

H. Sakai

**Hideki Sakai, Shingo Taki, Koji Tsuchiya, Atsutoshi Matsumura, Kenichi Sakai, and Masahiko Abe**  
*Chem. Lett.* **2012**, *41*, 247–248.



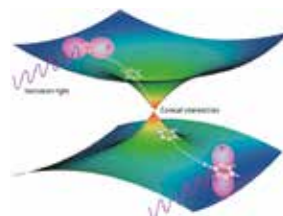




T. Suzuki

## Nonadiabatic Electronic Dynamics in Isolated Molecules and in Solution Studied by Ultrafast Time-Energy Mapping of Photoelectron Distributions

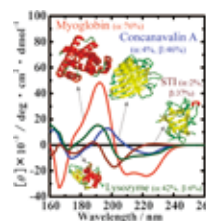
Toshinori Suzuki  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 341–354.



K. Matsuo

## Construction of a Synchrotron-Radiation Vacuum-Ultraviolet Circular-Dichroism Spectrophotometer and Its Application to the Structural Analysis of Biomolecules

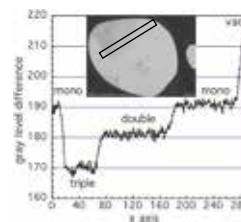
Koichi Matsuo and Kunihiko Gekko  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 675–689.



K. Kimura

## Stability of Graphene Oxide Film to Electron Beam Irradiation and Possible Thickness Dependence of Electron Attenuation

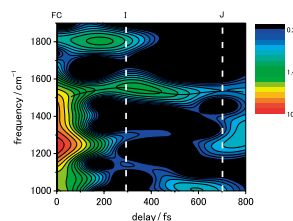
Tatsuya Sugimoto and Keisaku Kimura  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 333–338.



T. Kobayashi

## Development of Ultrafast Spectroscopy and Reaction Mechanisms Studied by the Observation of Ultrashort-Life Species and Transition States

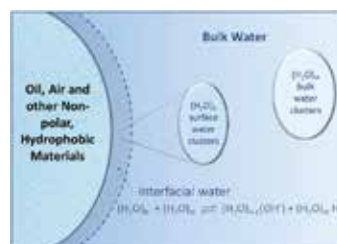
Takayoshi Kobayashi  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 167–182.



T. W. Healy

## The Oxide–Water Interface: How Valid Is the Site Dissociation–Surface Equilibria Model?

Thomas W. Healy and Peter J. Scales  
*Chem. Lett.* **2012**, *41*, 1020–1022.

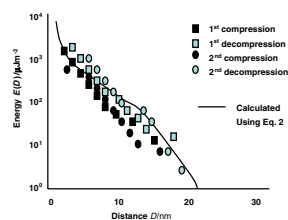




## Direct Measurement of Interaction Forces between Adsorbed Polymer Layers

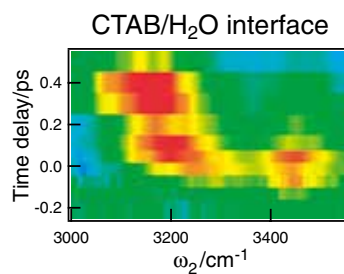
T. Tadros

Tharwat Tadros

*Chem. Lett.* **2012**, *41*, 1023–1028.

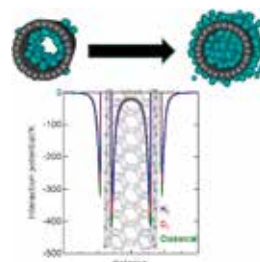
## Ultrafast Vibrational Dynamics of a Charged Aqueous Interface by Femtosecond Time-Resolved Heterodyne-Detected Vibrational Sum Frequency Generation

T. Tahara

Satoshi Nihonyanagi, Prashant C. Singh, Shoichi Yamaguchi, and **Tahei Tahara**  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 758–760.

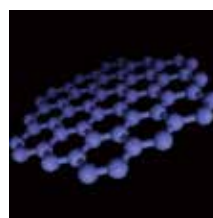
## Collective Interactions of Molecules with an Interfacial Solid

K. Kaneko

Katsumi Kaneko, Tsutomu Itoh, and Toshihiko Fujimori  
*Chem. Lett.* **2012**, *41*, 466–475.

## Magnetic Edge State of Nanographene and Unconventional Nanographene-Based Host–Guest Systems

T. Enoki

Toshiaki Enoki, Kazuyuki Takai, and Manabu Kiguchi  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 249–264.



## Stereochemical Communication within Tetrahedral Capsules

J. R. Nitschke

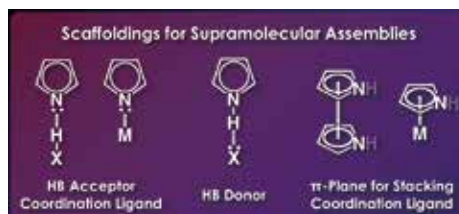
Ana M. Castilla, William J. Ramsay, and  
**Jonathan R. Nitschke**  
*Chem. Lett.* **2014**, *43*, 256–263.



## Supramolecular Chemistry of Pyrrole-Based $\pi$ -Conjugated Molecules

H. Maeda

**Hiromitsu Maeda**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1359–1399.



## Synthesis, Structure, and Dynamic Behavior of Discrete Metallacyclic Rotors

K.-L. Lu

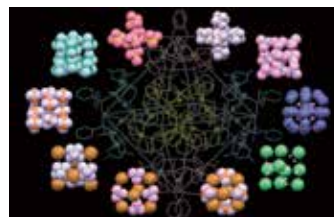
Pounraj Thanasekaran, Chia-Yuan Huang,  
and **Kuang-Lieh Lu**  
*Chem. Lett.* **2013**, *42*, 776–784.



## Extraordinary Aggregation of Inorganic Anions in Chiral Metallosupramolecular Ionic Crystals

T. Konno

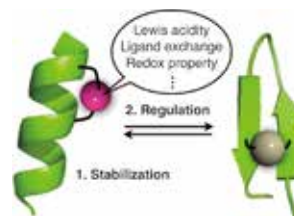
Raeun Lee, Asako Igashira-Kamiyama,  
Mitsutaka Okumura, and **Takumi Konno**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 908–920.



## Stimuli-responsive Synthetic Metallopeptides

M. Shionoya

Shohei Tashiro and **Mitsuhiko Shionoya**  
*Chem. Lett.* **2013**, *42*, 456–462.

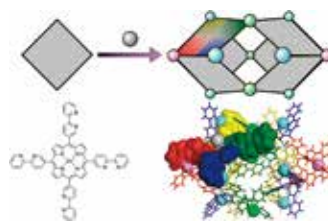




### Elaborate Metallosupramolecular Architectures through Desymmetrization Self-assembly of Symmetric Building Blocks

M. Shionoya

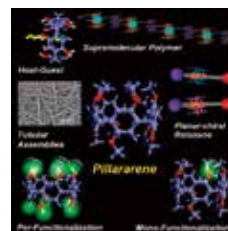
Takashi Nakamura, Hitoshi Ube, and **Mitsuhiko Shionoya**  
*Chem. Lett.* **2013**, *42*, 328–334.



### New Synthetic Host Pillararenes: Their Synthesis and Application to Supramolecular Materials

T. Ogoshi

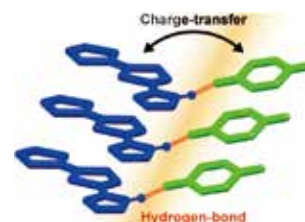
**Tomoki Ogoshi** and Tada-aki Yamagishi  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 312–332.



### Cooperation of Hydrogen-Bond and Charge-Transfer Interactions in Molecular Complexes in the Solid State

Y. Morita

**Yasushi Morita**, Tsuyoshi Murata, and **Kazuhiro Nakasuji**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 183–197.



### Bioinspired Supramolecular Materials

M. Ikeda

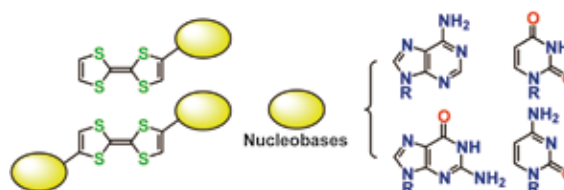
**Masato Ikeda**  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 10–24.



### Development of Organic Conductors with Self-Assembled Architectures of Biomolecules: Synthesis and Crystal Structures of Nucleobase-Functionalized Tetrathiafulvalene Derivatives

Y. Morita

Tsuyoshi Murata, Eigo Miyazaki, Suguru Maki, Yoshikazu Umemoto, Makoto Ohmoto, Kazuhiro Nakasuji, and **Yasushi Morita**  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 995–1006.

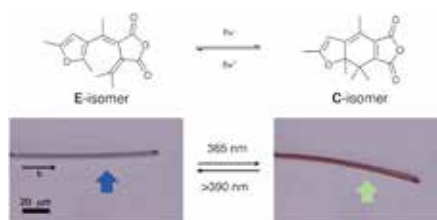




H. Koshima

## Photomechanical Motion of Furylfulgide Crystals

Hideko Koshima, Hidemitsu Nakaya, Hidetaka Uchimoto, and Naoko Ojima  
*Chem. Lett.* **2012**, *41*, 107–109.

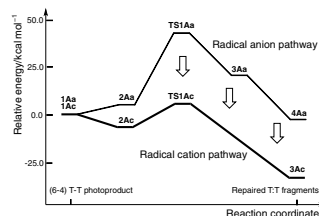




T. Matsubara

## Computational Study on the Mechanism of the Electron-Transfer-Induced Repair of the (6-4) T-T Photoproduct of DNA by Photolyase: Possibility of a Radical Cation Pathway

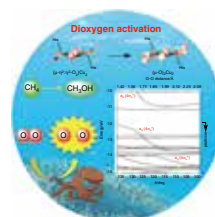
Toshiaki Matsubara, Nozomi Araida, Daichi Hayashi, and Hatsumi Yamada  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 390–399.



K. Yoshizawa

## Quantum Chemical Studies on Dioxygen Activation and Methane Hydroxylation by Diiron and Dicopper Species as well as Related Metal–Oxo Species

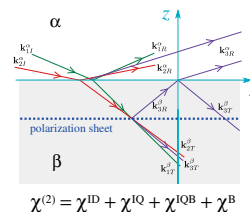
Kazunari Yoshizawa  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1083–1116.



A. Morita

## Theory of Quadrupole Contributions from Interface and Bulk in Second-Order Optical Processes

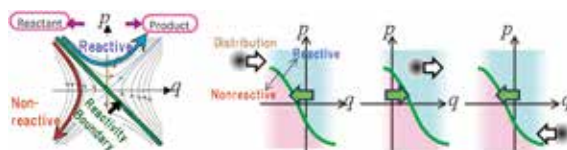
Kazuya Shiratori and Akihiro Morita  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 1061–1076.



S. Kawai

## Laser Control of Chemical Reactions by Phase Space Structures

Shinnosuke Kawai and Tamiki Komatsuzaki  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 854–861.



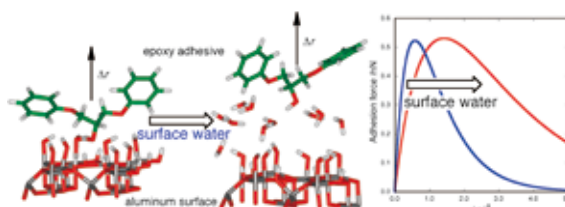




K. Yoshizawa

### Molecular Understanding of the Adhesive Force between a Metal Oxide Surface and an Epoxy Resin: Effects of Surface Water

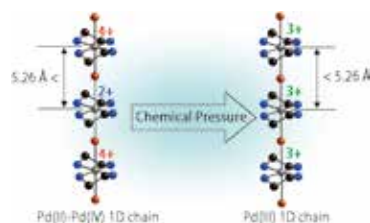
Takayuki Semoto, Yuta Tsuji, and Kazunari Yoshizawa  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 672–678.



S. Takaishi

### Exploration of Boundary between Charge-Density-Wave and Mott-Hubbard States in Quasi-One-Dimensional Halogen-Bridged Metal Complexes

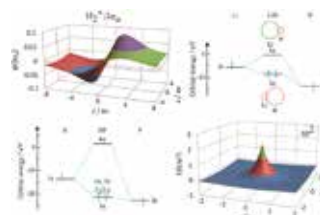
Shinya Takaishi  
*Bull. Chem. Soc. Jpn.* **2012**, *85*, 169–180.



S. Nagaoka

### A Revisit to Molecular Orbitals in $\text{H}_2^+$ , $\text{LiH}$ , $\text{HF}$ , and Hybridization

Shin-ichi Nagaoka, Hiroyuki Teramae, and Umpei Nagashima  
*Chem. Lett.* **2012**, *41*, 9–14.





**The Chemical Society of Japan**

<http://www.journal.csj.jp>

