CSJ Journal Report

2011–2013 First Half

Hot Articles

- Nanoclusters
- Nanotubes
- Mesoporous Materials
- Supramolecules
- Metal–Organic Frameworks (MOF)
- Organic FET
- C–H Bond Activation
- Cross Coupling
- Efficient Synthesis
- C–C Bond Activation
- Asymmetric Catalysis

Nanoclusters

Near-Field Nanooptics | Open Access | Award Accounts

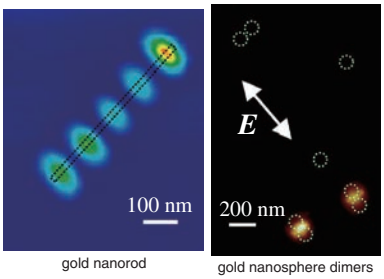
doi: 10.1246/bcsj.20120268

H. Okamoto

Nanooptical Studies on Physical and Chemical Characteristics of Noble Metal Nanostructures

Hiromi Okamoto

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



gold nanorod | gold nanosphere dimers

Composite Clusters | Open Access | Award Accounts

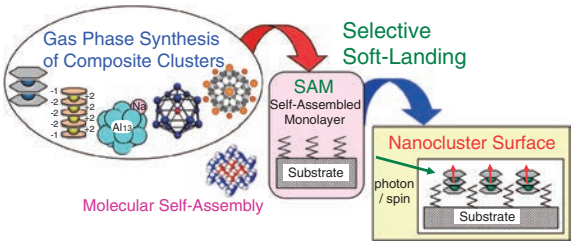
doi: 10.1246/bcsj.20120298

A. Nakajima

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

Atsushi Nakajima

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



Au Nanoparticles | Open Access | Selected Papers

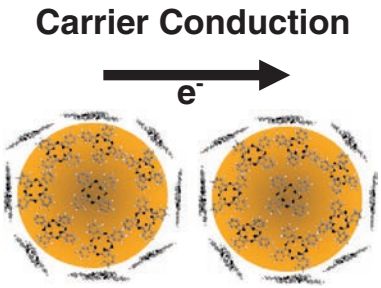
doi: 10.1246/bcsj.20120103

M. Kanehara

Electroconductive π-Junction Au Nanoparticles

Masayuki Kanehara; Jun Takeya; Takafumi Uemura; Hideyuki Murata; Kazuo Takimiya; Hikaru Sekine; Toshiharu Teranishi

Bull. Chem. Soc. Jpn. **2012**, *85*, 957–961.



Size-Controlled Au Clusters | Open Access | Award Accounts

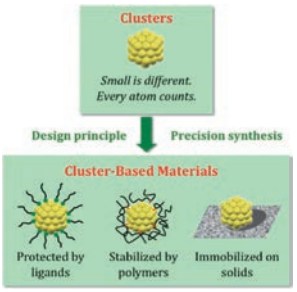
doi: 10.1246/bcsj.20110227

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.



Nanotubes

Solubilized SWNT | Open Access | BCSJ Award Article

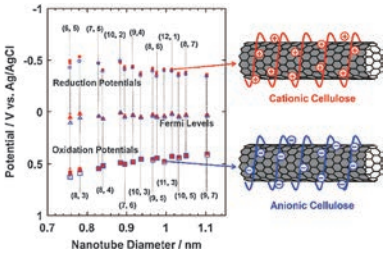
doi: 10.1246/bcsj.20120116

N. Nakashima

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

Yasuhiko Hirana; Yasuro Niidome; **Naotoshi Nakashima**

Bull. Chem. Soc. Jpn. **2012**, *85*, 1262–1267.



Graphitized SWNT | Open Access | Editor's Choice

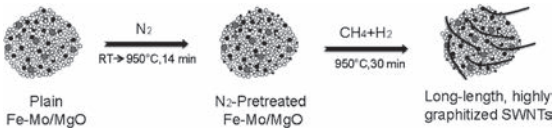
doi: 10.1246/cl.2012.871

S. Gokhale

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

Gaurav Patil; Chetan Sarode; Rahul Patil; **Suresh Gokhale**

Chem. Lett. **2012**, *41*, 871–873.



TiO_2 Nanotube | Letter

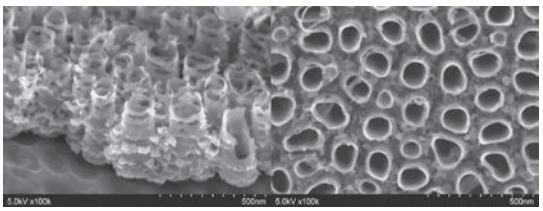
doi: 10.1246/cl.2011.1107

K. Nakata

Fabrication and Photocatalytic Properties of TiO_2 Nanotube Arrays Modified with Phosphate

Kazuya Nakata; Baoshun Liu; Yosuke Ishikawa; Munetoshi Sakai; Hidenori Saito; Tsuyoshi Ochiai; Hideki Sakai; Taketoshi Murakami; Masahiko Abe; Katsuhiko Takagi; **Akira Fujishima**

Chem. Lett. **2011**, *40*, 1107–1109.



Mesoporous Materials

Silica Film | Selected Papers

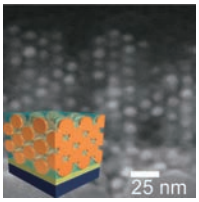
doi: 10.1246/bcsj.20120358

K. Kuroda

Formation of Au Nanostructure by Electrodeposition in a Mesoporous Silica Film with Interconnected Cage-Type Mesopores

Yosuke Kanno; **Kazuyuki Kuroda**

Bull. Chem. Soc. Jpn. **2013**, *86*, 583–585.



Nanoarchitectonics | Open Access | Accounts

doi: 10.1246/bcsj.20110162

K. Ariga

Nanoarchitectonics for Mesoporous Materials

Katsuhiko Ariga; **Ajayan Vinu**; **Yusuke Yamauchi**; Qingmin Ji; Jonathan P. Hill

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

Supramolecules

Nanospace | Highlight Review

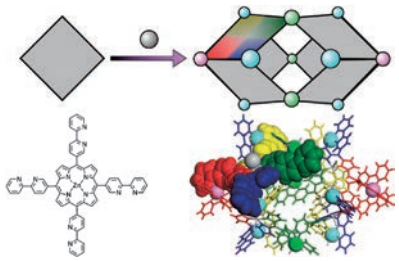
doi: 10.1246/cl.130189

M. Shionoya

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

Takashi Nakamura; Hitoshi Ube; **Mitsuhiko Shionoya**

Chem. Lett. **2013**, *42*, 328–334.



Bioinspired Materials | Open Access | Award Accounts

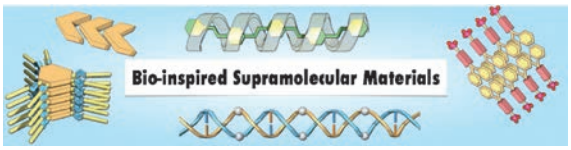
doi: 10.1246/bcsj.20120254

M. Ikeda

Bioinspired Supramolecular Materials

Masato Ikeda

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



Metal–Organic Frameworks (MOF)

Entangled Porous Frameworks | Highlight Review

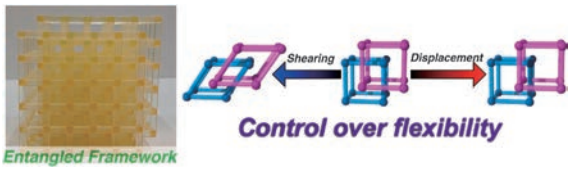
doi: 10.1246/cl.130357

S. Kitagawa

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

Shuhei Furukawa; Yoko Sakata; **Susumu Kitagawa**

Chem. Lett. **2013**, *42*, 570–576.



Organic FET

Single-Crystal Transistors | Open Access | BCSJ Award Article

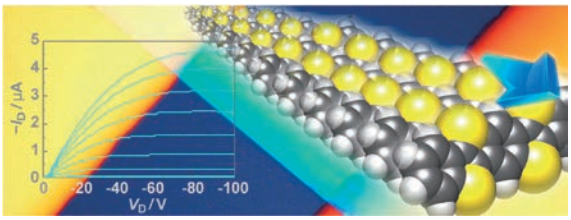
doi: 10.1246/bcsj.20120178

T. Yasuda

Organic Single-Crystal Transistors Based on π-Extended Heteroheptacene Microribbons

Yu Seok Yang; **Takuma Yasuda**; **Chihaya Adachi**

Bull. Chem. Soc. Jpn. **2012**, *85*, 1186–1191.



C–H Bond Activation

Cu–Rh Redox Catalysis | Highlight Review

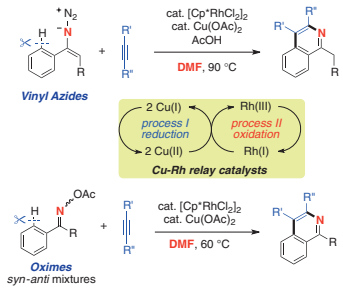
doi: 10.1246/cl.2012.1554

S. Chiba

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

Shunsuke Chiba

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



Ru Catalysis | Letter

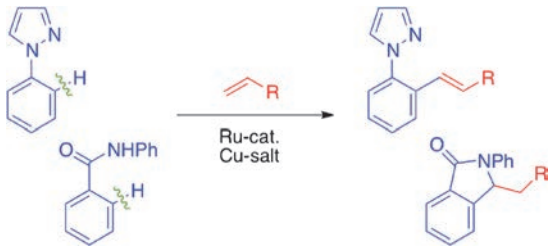
doi: 10.1246/cl.2011.1165

M. Miura

Ruthenium-catalyzed Oxidative Alkenylation of Arenes via Regioselective C–H Bond Cleavage Directed by a Nitrogen-containing Group

Yuto Hashimoto; Takumi Ueyama; Tatsuya Fukutani; Koji Hirano; **Tetsuya Satoh**; **Masahiro Miura**

Chem. Lett. **2011**, *40*, 1165–1166.



Pd Catalysis | Open Access | Editor's Choice

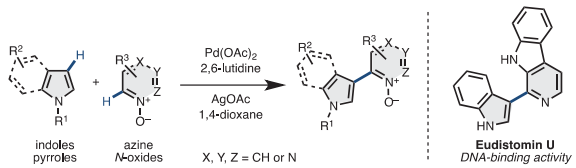
doi: 10.1246/cl.2011.555

K. Itami

Oxidative C–H/C–H Coupling of Azine and Indole/Pyrrole Nuclei: Palladium Catalysis and Synthesis of Eudistomin U

Atsushi D. Yamaguchi; Debashis Mandal; **Junichiro Yamaguchi**; **Kenichiro Itami**

Chem. Lett. **2011**, *40*, 555–557.



Cross Coupling

Suzuki Coupling | Open Access | Highlight Review

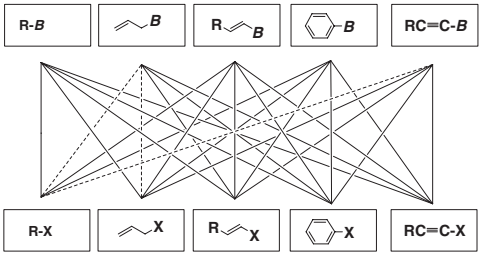
doi: 10.1246/cl.2011.894

A. Suzuki

Cross-coupling Reactions of Organoboranes: An Easy Method for C–C Bonding

Akira Suzuki; **Yasunori Yamamoto**

Chem. Lett. **2011**, *40*, 894–901.



Fe Catalysis | Open Access | Letter

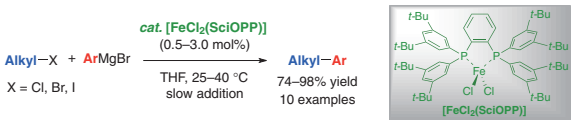
doi: 10.1246/cl.2011.1030

M. Nakamura

Kumada–Tamao–Corriu Coupling of Alkyl Halides Catalyzed by an Iron–Bisphosphine Complex

Takuji Hatakeyama; Yu-ichi Fujiwara; Yoshihiro Okada; Takuma Itoh; Toru Hashimoto; Shintaro Kawamura; Kazuki Ogata; Hikaru Takaya; **Masaharu Nakamura**

Chem. Lett. **2011**, *40*, 1030–1032.



Efficient Synthesis

1,3-Dipolar Cycloaddition | Highlight Review

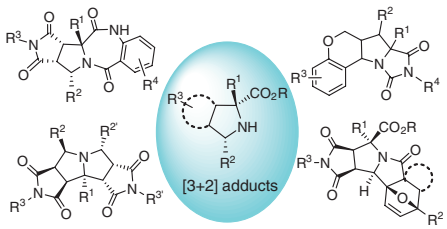
doi: 10.1246/cl.130504

W. Zhang

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

Wei Zhang

Chem. Lett. **2013**, *42*, 676–681.



C–C Bond Activation

Ni/Lewis Acid Catalysis | Open Access | Award Accounts

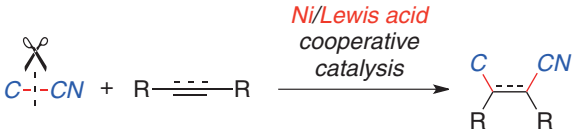
doi: 10.1246/bcsj.20120081

Y. Nakao

Nickel/Lewis Acid-Catalyzed Carbocyanation of Unsaturated Compounds

Yoshiaki Nakao

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



Asymmetric Catalysis

C–C Bond-Forming Reactions | Selected Papers

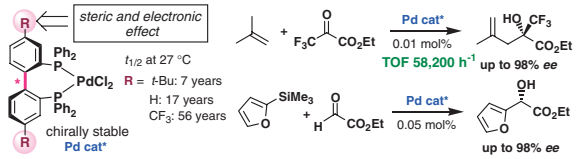
doi: 10.1246/bcsj.20110309

K. Mikami

Stable Axial Chirality in Metal Complexes Bearing 4,4′-Substituted BIPHEPs: Application to Catalytic Asymmetric Carbon–Carbon Bond-Forming Reactions

Kohsuke Aikawa; Yoshitaka Miyazaki; **Koichi Mikami**

Bull. Chem. Soc. Jpn. **2012**, *85*, 201–208.



Asymmetric Autocatalysis | Open Access | Award Accounts

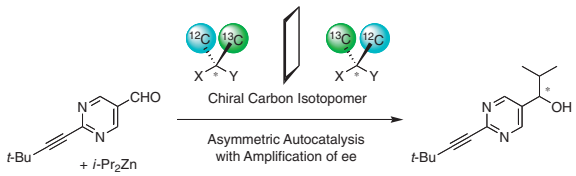
doi: 10.1246/bcsj.20110120

K. Soai

Asymmetric Induction Arising from Enantiomerically Enriched Carbon-13 Isotopomers and Highly Sensitive Chiral Discrimination by Asymmetric Autocatalysis

Tsuneomi Kawasaki; **Kenso Soai**

Bull. Chem. Soc. Jpn. **2011**, *84*, 879–892.



Asymmetric Isomerization | Highlight Review

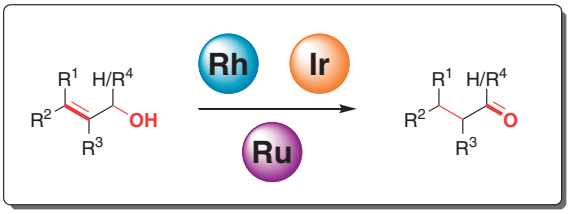
doi: 10.1246/cl.2011.341

C. Mazet

Platinum Metals in the Catalytic Asymmetric Isomerization of Allylic Alcohols

Luca Mantilli; **Clément Mazet**

Chem. Lett. **2011**, *40*, 341–344.



M/NH Bifunctional Catalysis | Open Access | Award Accounts

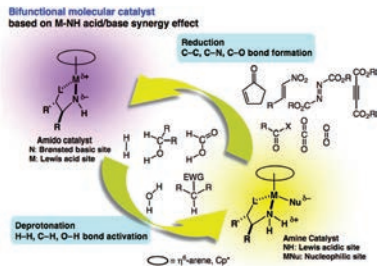
doi: 10.1246/bcsj.20100249

T. Ikariya

Chemistry of *Concerto* Molecular Catalysis Based on the Metal/NH Bifunctionality

Takao Ikariya

Bull. Chem. Soc. Jpn. **2011**, *84*, 1–16.



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