Analytical Chemistry

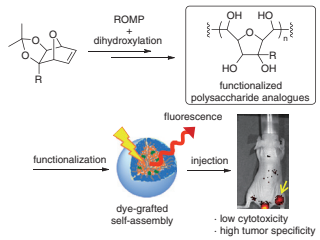
In Vivo Imaging; Polysaccharide Analogues | *Selected Paper* | doi:10.1246/bcsj.20150038

K. Ohe

Synthesis of Biocompatible Polysaccharide Analogues and Their Application to In Vivo Optical Tumor Imaging

Koji Miki,* Akinori Kimura, Tatsuhiro Inoue, Hideki Matsuoka, Hiroshi Harada, Masahiro Hiraoka, and Kouichi Ohe*

Bull. Chem. Soc. Jpn. **2015**, *88*, 792-803



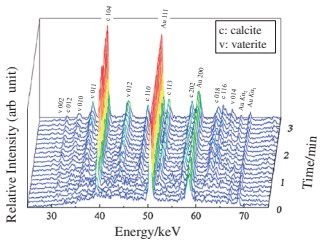
In Situ XRD; Amorphous Calcium Carbonate | OPEN *Editor's Choice* | doi:10.1246/cl.141062

K. Maruyama

In Situ Observation of Pressure-induced Crystallization from Amorphous Calcium Carbonate by Time-resolved X-ray Diffraction

Koji Maruyama,* Hiroyuki Kagi, Toru Inoue, Hiroaki Ohfuji, and Toru Yoshino

Chem. Lett. **2015**, *44*, 434-436



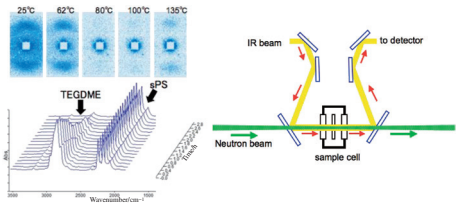
SANS/FTIR; Simultaneous Measurement | OPEN *Editor's Choice* | doi:10.1246/cl.141179

F. Kaneko

Development of a Simultaneous SANS/FTIR Measuring System

Fumitoshi Kaneko,* Naoki Seto, Shuma Sato, Aurel Radulescu, Maria Maddalena Schiavone, Jürgen Allgaier, and Koichi Ute

Chem. Lett. **2015**, *44*, 497-499



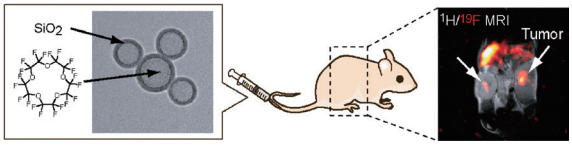
^{19}F MRI Nanoprobes; Core–Shell Nanoparticles | OPEN *Award Accounts* | doi:10.1246/bcsj.20140392

K. Kikuchi

^{19}F MRI Probes with Tunable Switches and Highly Sensitive ^{19}F MRI Nanoprobes

Kazuya Kikuchi

Bull. Chem. Soc. Jpn. **2015**, *88*, 518-521



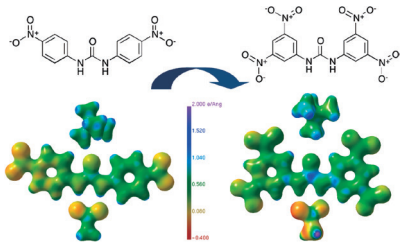
Charge Density Analysis; Electron Density Distribution | OPEN *Highlight Review* | doi:10.1246/cl.140929

P. A. Gale

Systematic Experimental Charge Density: Linking Structural Modifications to Electron Density Distributions

Isabelle L. Kirby, Mateusz B. Pitak, Simon J. Coles, and Philip A. Gale*

Chem. Lett. **2015**, *44*, 2-9



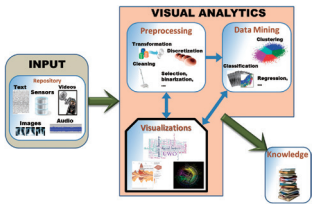
Chemical Sensors; Clinical Diagnosis | OPEN Highlight Review | doi:10.1246/cl.140762


O. N. Oliveira, Jr.

Where Chemical Sensors May Assist in Clinical Diagnosis Exploring "Big Data"

Osvaldo N. Oliveira, Jr.,* Tácito T. A. T. Neves, Fernando V. Paulovich, and Maria Cristina F. de Oliveira

Chem. Lett. **2014**, *43*, 1672-1679



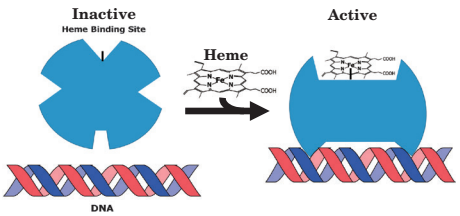
Heme-regulated Proteins; Signaling Cascades | OPEN Highlight Review | doi:10.1246/cl.140787


K. Ishimori

Unique Heme Environmental Structures in Heme-regulated Proteins Using Heme as the Signaling Molecule

Koichiro Ishimori* and Yuta Watanabe

Chem. Lett. **2014**, *43*, 1680-1689



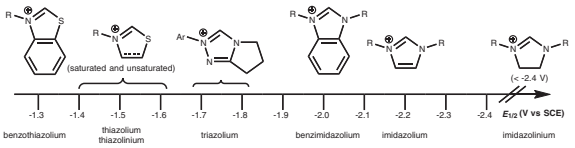
Azolium Salts; Redox Properties | OPEN Editor's Choice | doi:10.1246/cl.140162


A. J. Boydston

Electrochemical Characterization of Azolium Salts

Kelli A. Ogawa and Andrew J. Boydston*

Chem. Lett. **2014**, *43*, 907-909



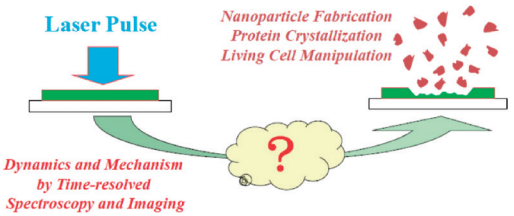
Molecular Laser Ablation; Nanoparticle Fabrication | OPEN Award Accounts | doi:10.1246/bcsj.20130066


H. Masuhara

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

Hiroshi Masuhara

Bull. Chem. Soc. Jpn. **2013**, *86*, 755-783



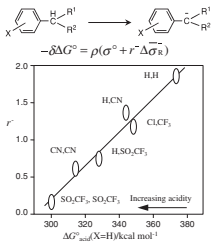
Gas-phase Acidities; SO_2CF_3-substituted Toluenes | OPEN Selected Paper | doi:10.1246/bcsj.20130052


M. Mishima

Gas-Phase Acidities of α- and α,α-SO_2CF_3-Substituted Toluenes. Varying Resonance Demand in the Electron-Rich System

Min Zhang, Md. Mizanur Rahman Badal, Ilmar A. Koppel, and Masaaki Mishima*

Bull. Chem. Soc. Jpn. **2013**, *86*, 813-820

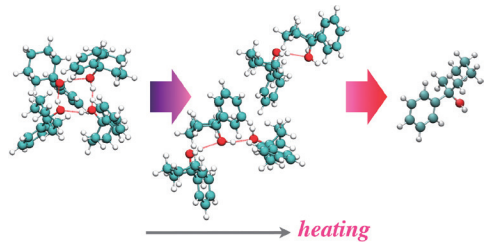


doi:10.1246/bcsj.20120322


K. Saito

Identification of Hydrogen-Bonded Oligomers in Associating Liquid by ^{1}H NMR: 1-Phenyl-1-cyclohexanol

Shigenori Nagatomo, Megumi Nobuhira, Yasuhisa Yamamura, Masato Sumita, and Kazuya Saito*
Bull. Chem. Soc. Jpn. **2013**, *86*, 569-576

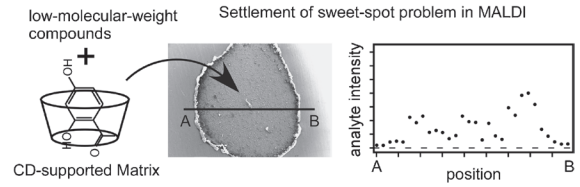


doi:10.1246/cl.121232


T. Fujino

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

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

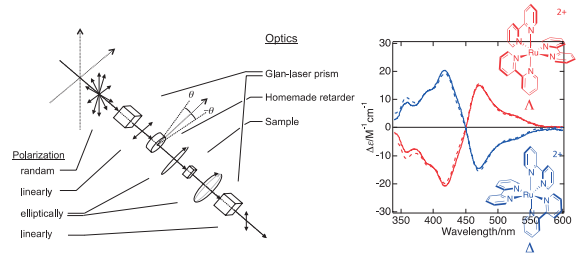


doi:10.1246/cl.2013.261


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



doi:10.1246/bcsj.20120235


A. Hafuka

BODIPY-Based Ratiometric Fluoroionophores with Bidirectional Spectral Shifts for the Selective Recognition of Heavy Metal Ions

Akira Hafuka, Hiroki Taniyama, Sang-Hyun Son, Koji Yamada, Masahiro Takahashi, Satoshi Okabe, and Hisashi Satoh*
Bull. Chem. Soc. Jpn. **2013**, *86*, 37-44