**Highlight Review**

Lanthanide luminescent bioprobes (LLBs) are emerging as essential tools in immunoassays, bioaffinity assays, and cellular microscopy imaging and sensing thanks to their time-resolved capability and multicolor potentiality.

Jean-Claude G. Bünzli  
doi:10.1246/cl.2009.104

**Letter**

Induced-current-generated System Using the Chemomechanical Transduction at a Nitrobenzene/Water Interface

Sachiko Matsushita, Kaori Yoshida, Tetsuya Sato, and Yoshihiro Suga  
doi:10.1246/cl.2009.110  
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112 The First Organic Radical Compounds Exhibiting n-Type FET Properties

Kazunori Aoki, Hiroki Akutsu, Jun-ichi Yamada, Shin’ichi Nakatsuji, Takahiro Kojima, and Yoshiro Yamashita
doi:10.1246/cl.2009.112
Electronic Supporting Information

114 Synthesis of 25-13C-Amphotericin B Methyl Ester: A Molecular Probe for Solid-state NMR Measurements

Naohiro Matsushita, Yukiko Matsuo, Hiroshi Tsuchikawa, Nobuaki Matsumori, Michio Murata, and Tohru Oishi
doi:10.1246/cl.2009.114
Electronic Supporting Information

116 Sequential Introduction of Carbon Nucleophiles onto Silicon Atoms Using Methyl as a Leaving Group

Hiroaki Horie, Yuichi Kajita, and Seijiro Matsubara
doi:10.1246/cl.2009.116
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118 Rhodium-catalyzed and Coordination-assisted Regioselective Alkenylation of Aromatic C–H Bonds with Terminal Silylacetylenes

Takashi Katagiri, Tomoya Mukai, Tetsuya Satoh, Koji Hirano, and Masahiro Miura
doi:10.1246/cl.2009.118
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120 Direct Preparation of Highly Ordered Multi-layer-type Silica Nanocapsules Using Spontaneously Formed Vesicles as Templates

Taku Ogura, Hiroyumi Shibata, Kenichi Sakai, Hideki Sakai, and Masahiko Abe
doi:10.1246/cl.2009.120

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122 Regioselective and Quantitative Modification of Cellulose to Access Cellulose-based Advanced Materials: Cellulose-based Glyco-clusters

Erika Yamashita, Kiyomi Okubo, Kaori Negishi, and Teruaki Hasegawa
doi:10.1246/cl.2009.122

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124 EPR Study of Rotational Diffusion in Viscous Ionic Liquids: Analysis by a Fractional Stokes–Einstein–Debye Law

Yusuke Miyake, Takehiro Hidemori, Nobuyuki Akai, Akio Kawai, Kazuhiko Shibuya, Shinichi Koguchi, and Tomoya Kitazume
doi:10.1246/cl.2009.124

126 Photocurrent Generation by Self-assembled Monolayers of Helical Peptides Carrying Naphthyl Groups and Ferrocene Unit as Hopping Sites

Shinpei Okamoto, Tomoyuki Morita, and Shunsaku Kimura
doi:10.1246/cl.2009.126

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128 Novel 19F MRS/I Nanoprobe Based on pH-Responsive PEGylated Nanogel: pH-Dependent 19F Magnetic Resonance Studies

Motoi Oishi, Shogo Sumitani, Tatiana K. Bronich, Alexander V. Kabakov, Michael D. Boska, and Yukio Nagasaki
doi:10.1246/cl.2009.128

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130 Fine-tuning Cavity Size and Wall Thickness of Silica Hollow Nanoparticles by Templating Polymeric Micelles with Core–Shell–Corona Structure

Dian Liu, Anil Khanal, Kenichi Nakashima, Yuko Inoue, and Mitsunori Yada
doi:10.1246/cl.2009.130

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132  A Facile Fabrication of Superhydrophobic Films by Electrophoretic Deposition of Hydrophobic Particles

Hitoshi Ogihara, Jun Okagaki, and Tetsuo Saji
doi:10.1246/cl.2009.132
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134  Nanoparticles of Hybrid Liposomes for the Inhibition of Breast Tumor Growth along with Apoptosis

Shinya Shimoda, Hideaki Ichihara, Yoko Matsumoto, and Ryuichi Ueoka
doi:10.1246/cl.2009.134

136  Fabrication of Multifunctional Magnetic Nanogold Microspheres as Immunosensing Probe for the Detection of Staphylococcal Enterotoxin B in Food

Dianping Tang, Hang Li, and Jiayao Liao
doi:10.1246/cl.2009.136

138  Preparation and Electrochemical Performance of Ni–Al LDH Doped with Co and La

Jianfeng Yang and Zhentao Zhou

140  Synthesis and Photophysical Properties of Tris-bridged \([3,3.n](3,6,9)\)Carbazolophanes

Keita Tani, Naoki Sakamoto, Koji Kubono, Kazushige Hori, Yasuo Tohda, Hiroaki Benten, Hideo Ohkita, Shinzaburo Ito, and Masahide Yamamoto
doi:10.1246/cl.2009.140
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Visible and Near-infrared Laser Desorption Ionization Mass Spectrometry Using Single Wall Carbon Nanotubes

Daisuke Nanjo, Kohei Shibamoto, and Takashi Korenaga
doi:10.1246/cl.2009.142

Fluorescence Enhancement Due to Gap Mode of Gold Colloids Immobilized on a Hydrophilic Amino-terminated Glass Substrate

Akito Ishida and Keisuke Kumagai
doi:10.1246/cl.2009.144
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Silica Capillary with Thin Metal (Pd and Pt) Inner Wall: Application to Continuous Decomposition of Hydrogen Peroxide

Rahat Javaid, David A. Pacheco Tanaka, Hajime Kawanami, and Toshishige M. Suzuki
doi:10.1246/cl.2009.146

Monolayer Formation of a Pt–Ru Dinuclear Complex on a Gold (111) Surface and Its Conversion to a Pt–Ru Two-dimensional Nanocomposite Having Electrocatalytic Activity

Hiromitsu Uehara, Yukihisa Okawa, Yoichi Sasaki, and Kohei Uosaki
doi:10.1246/cl.2009.148

Application of FITC-labeled Ternatin on Its Cellular Localization in 3T3-L1 Murine Preadipocytes

Kenichiro Shimokawa, Osamu Ohno, Kaoru Yamada, Yuichi Oba, and Daisuke Uemura
doi:10.1246/cl.2009.150
152 Association of Uranyl Ions with Amino Functional Groups

The adsorption of uranyl ions (UO$_2^{2+}$) on amino functional groups was investigated using the amino group-modified silica particles. It was found that 1:2 uranyl amino complexes were formed.

Naofumi Kozai and Toshihiko Ohnuki
doi:10.1246/cl.2009.152

154 The Structure and Absolute Stereochemistry of Briaexcavatin U, a New Chlorinated Briarane from a Cultured Octocoral Briareum excavatum

Cultured Briareum excavatum in the NMMBA
Briaexcavatin U, a chlorinated briarane from Briareum excavatum.

Ping-Jyun Sung, Mei-Ru Lin, and Michael Y. Chiang
doi:10.1246/cl.2009.154

156 A Facile and Expeditious Synthesis of Cryptosanguinolentines

A simple and efficient synthesis of naturally occurring cryptosanguinolentines from the reaction of 1-methyl-1,2,3,4-tetrahydroquinolin-4-ones with arylhydrazines in the presence of p-toluenesulfonic acid is described.

Dalip Kumar, Maruthi Kumar N., and V. S. Rao
doi:10.1246/cl.2009.156
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158 Fluorescence of Rhodamine 6G on Hydrotalcite — Possibility of Alcohol Sensing —

Keiichi Takahashi, Masahiro Tajima, Katsuji Matsunaga, and Hideaki Miura
doi:10.1246/cl.2009.158

160 Parallel Electrosynthesis of N-Acyliminium Ion Equivalents Using Silica Gel-supported Piperidine

Toshiki Tajima and Atsushi Nakajima
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162 Survey of Liquid Coumarin Dyes and Their Fluorescence Properties

So-Yeon Park, Yasuhiro Kubota, Kazumasa Funabiki, and Masaki Matsui
doi:10.1246/cl.2009.162

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164 Electrochemical Investigation of the Behavior of Solid-supported Bases in Aprotic Organic Solvents Using Anodic Oxidation of p-Methoxybenzyl Alcohol as a Model Reaction

Toshiki Tajima, Rieko Oba, and Atsushi Nakajima
doi:10.1246/cl.2009.164

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166 Photoinduced Oxyamination of Enamines and Aldehydes with TEMPO Catalyzed by [Ru(bpy)₃]²⁺

Takashi Koike and Munetaka Akita
doi:10.1246/cl.2009.166

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168 Experimental Investigation of Carbon Oxidation

Shuiliang Yao, Chieko Mine, Satoshi Kodama, Shin Yamamoto, and Yuichi Fujioka
doi:10.1246/cl.2009.168

170 Trichloroisocyanuric Acid (TCCA) as a Mild and Efficient Catalyst for the Synthesis of 2-Arylbenzothiazoles

Hui-Long Xiao, Jiu-Xi Chen, Miao-Chang Liu, Dong-Jian Zhu, Jin-Chang Ding, and Hua-Yue Wu
doi:10.1246/cl.2009.170

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172 Effect of Transition-metal Oxide Additives for Water–Gas-shift Reaction over Supported Copper Catalyst

Kunimasa Sagata, Yusuke Kawanishi, Makiko Asamoto, Hiroyuki Yamaura, and Hidenori Yahiro
doi:10.1246/cl.2009.172

The catalytic activity of the water–gas-shift reaction over Cu/Al2O3 catalyst was improved by the addition of transition-metal oxide. The catalytic activity of Cu/Al2O3 with CoO was highest among those with transition-metal oxide additive at 423 K.

174 Synthesis of 4-Thiopseudoisocytidine and 4-Thiopseudouridine as Components of Triplex-forming Oligonucleotides

Itaru Okamoto, Shiqi Cao, Hiroto Tanaka, Kohji Seio, and Mitsuo Sekine
doi:10.1246/cl.2009.174
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176 Preparation of Ultrathin Palladium Membrane Using Electrophoresis of Metallic Nanoparticles

Aki Tominaga, Osamu Nakagoe, and Shuji Tanabe
doi:10.1246/cl.2009.176
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178 Assembling into Chiral Crystal of Spin Crossover Iron(II) Complex

Tetsuya Sato, Seiichiro Iijima, Masaaki Kojima, and Naohide Matsumoto
doi:10.1246/cl.2009.178

180 Nanocrystalline CaZrTi2O7 Photocatalyst Prepared by a Polymerizable Complex Method in the Presence of Cs2CO3 Flux for Water Splitting

Yugo Miseki, Kenji Saito, and Akihiko Kudo
doi:10.1246/cl.2009.180
182 Clear Evidence Showing the Robustness of a Highly Active Oxygen-evolving Mononuclear Ruthenium Complex with an Aqua Ligand

Shigeyuki Masaoka and Ken Sakai
doi:10.1246/cl.2009.182
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184 Cationic and Anionic Dinuclear Nickel Complexes [Ni(N₂S₂)Ni(dtc)]ⁿ⁻ (n = −1, +1) Modeling the Active Site of Acetyl-CoA Synthase

Yumei Song, Mikinao Ito, Mai Kotera, Tsyuoshi Matsumoto, and Kazuyuki Tatsumi
doi:10.1246/cl.2009.184
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186 Arylation of Allylsilanes through Rhodium Catalysis

Haruka Omachi and Kenichiro Itami
doi:10.1246/cl.2009.186

188 Dehydrative Allylation of Alcohols and Deallylation of Allyl Ethers Catalyzed by [CpRu(CH₃CN)₃]PF₆ and 2-Pyridinecarboxylic Acid Derivatives. Effect of π-Accepting Ability and COOH Acidity of Ligand on Reactivity

Shinji Tanaka, Hajime Saburi, Takuya Hirakawa, Tomoaki Seki, and Masato Kitamura
doi:10.1246/cl.2009.188

190 Synthesis of a Linked [1]–[1]Rotaxane

Susumu Tsuda, Jun Terao, Keisuke Tsurui, and Nobuaki Kambe
doi:10.1246/cl.2009.190
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