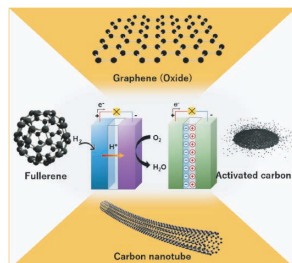


CSJ Account Open Access

Keywords: Carbon allotropes | Fuel cells | Super-capacitors
Energy Conversion and Storage in Fuel Cells and Super-Capacitors from Chemical Modifications of Carbon Allotropes: State-of-Art and Prospect

Md. Saidul Islam,* Yuta Shudo, and Shinya Hayami*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 1-25 doi:10.1246/bcsj.20210297

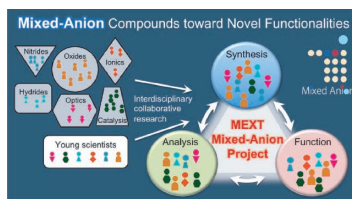


Account/Review for Masterpiece Materials with Functional Excellence

Open Access

Keywords: Photocatalyst | Phosphor | Battery electrode
Recent Progress on Mixed-Anion Materials for Energy Applications

Kazuhiro Maeda,* Fumitaka Takeiri, Genki Kobayashi, Satoru Matsuishi, Hiraku Ogino, Shintaro Ida, Takao Mori, Yoshiharu Uchimoto, Setsuhisa Tanabe, Tetsuya Hasegawa, Nobuhito Imanaka, and Hiroshi Kageyama*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 26-37 doi:10.1246/bcsj.20210351



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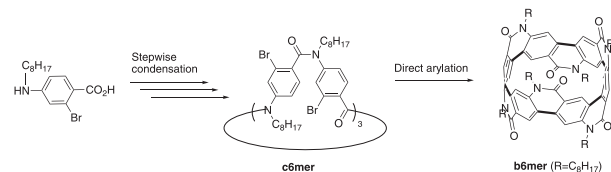
Keywords: Overcrowded ethylenes | Isomerization | Artificial force induced reaction
Antraquinodimethane Ring-Flip in Sterically Congested Alkenes: Isolation of Isomer and Elucidation of Intermediate through Experimental and Theoretical Approach

Yusuke Ishigaki,* Tomoki Tadokoro, Yu Harabuchi, Yuki Hayashi, Satoshi Maeda,* and Takanori Suzuki*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 38-46 doi:10.1246/bcsj.20210355

BCSJ Award Article Open Access

Keywords: Belt-shaped molecule | Amide bond | Direct arylation
Toward the Synthesis of a Belt-Shaped Cyclic π -Conjugated System Comprising *para*-Phenylene Framework and Amide Bridging Unit

Koji Takagi,* Daiki Miyamoto, Hinako Yamaguchi, and Isao Azumaya
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 47-51 doi:10.1246/bcsj.20210340



Keywords: Kinetic resolution | Carboxylic acids | Organocatalysis
Non-Enzymatic Kinetic Resolution and Desymmetrization of α -Quaternary Carboxylic Acids via Chiral Bifunctional Sulfide-Catalyzed Bromolactonization

Ken Okuno, Mana Hiraki, Bun Chan, and Seiji Shirakawa*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 52-58 doi:10.1246/bcsj.20210347

Keywords: Intersystem crossing pathway | Electron paramagnetic resonance (EPR) | Complete active space self-consistent field (CASSCF)

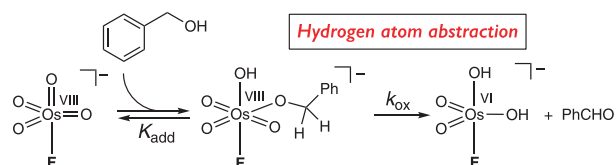
Time-Resolved EPR and Theoretical Investigations of Naphthalene Diimide Spin Dynamics in the Excited State

Hideto Matsuoka,* Yuki Shibano, Ikuko Akimoto, and Yuki Kanzaki
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 59-63 doi:10.1246/bcsj.20210307

Selected Paper

Keywords: Osmium complex | Halide adduct | Alcohol oxidation
Halide-Adducts of OsO₄. Structure and Reactivity in Alcohol-Oxidation

Tomohiro Fujimoto, Yuka Hirata, Hideki Sugimoto,* Mayuko Miyanishi, Yoshihito Shiota, Kazunari Yoshizawa,* and Shinobu Itoh*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 64-72 doi:10.1246/bcsj.20210377

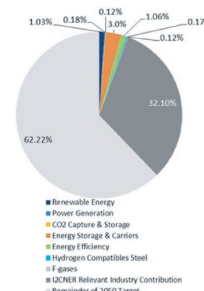


Account/Review for Masterpiece Materials with Functional Excellence

Open Access

Keywords: Carbon neutral | Materials | Energy
Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies

Andrew Chapman, Elif Ertekin, Masanobu Kubota, Akihide Nagao, Kaila Bertsch, Arnaud Macadre, Toshihiro Tsuchiyama, Takuro Masamura, Setsuo Takaki, Ryosuke Komoda, Mohsen Dadfarnia, Brian Somerday, Alexander Tsekov Staykov, Joichi Sugimura, Yoshinori Sawae, Takehiro Morita, Hiroyoshi Tanaka, Kazuyuki Yagi, Vlad Niste, Prabakaran Saravanan, Shugo Onitsuka, Ki-Seok Yoon, Seiji Ogo, Toshinori Matsushima, Ganbaatar Tumen-Ulzii, Dino Klotz, Dinh Hoa Nguyen, George Harrington, Chihaya Adachi, Hiroshige Matsumoto, Leonard Kwati, Yukina Takahashi, Nuttavut Kosem, Tatsumi Ishihara, Miho Yamauchi, Bidyut Baran Saha, Md. Amirul Islam, Jin Miyawaki, Harish Sivasankaran, Masamichi Kohno, Shigenori Fujikawa, Roman Selyanchyn, Takeshi Tsuji, Yukihiko Higashi, Reiner Kirchheim, and Petros Sofronis*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 73-103 doi:10.1246/bcsj.20210322



Keywords: Reductive coupling | Low-valent titanium | Isatins
Reductive Coupling of Isatins with α,β -Unsaturated Carbonyl Compounds by Low-Valent Titanium

Naoki Kise,* Yuki Mitsui, and Toshihiko Sakurai
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 104-109 doi:10.1246/bcsj.20210357

Keywords: Circularly polarized luminescence | Cyclophane | Planar chirality

Synthesis and Chiroptical Properties of One-Handed Helical Oligo-*o*-phenylene-ethynylenes Using Planar Chiral [2.2]Paracyclophane

Nanami Miki, Ryo Inoue, and Yasuhiro Morisaki*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 110-115 doi:10.1246/bcsj.20210368

Keywords: Pyridine pillar[5]arene (PyP5) | 2-Naphthol | Anion
Construction of Supramolecular Fluorescent Probe by a Water-Soluble Pillar[5]arene and Its Recognition of Carbonate Ion

Xin Yi Zhu, Xi Nan Yang, Heng Wu, Zhu Tao, and Xin Xiao*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 116-120 doi:10.1246/bcsj.20210332

Keywords: Highly reducible CuO | High-temperature calcination | Furfural-hydrogenation

Creation of Highly Reducible CuO Species by High-Temperature Calcination of a Cu-Al Layered Double Hydroxide: Selective Hydrogenation of Furfural into Furfuryl Alcohol with Formic Acid

Enggah Kurniawan, Takayoshi Hara,* Yessi Permana, Takashi Kojima, Nobuyuki Ichikuni, and Shogo Shimazu
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 121-128 doi:10.1246/bcsj.20210379

Keywords: Alumina | Metal ion adsorption | Adsorption mechanisms
Mechanisms Responsible for Adsorption of Molybdate Ions on Alumina for the Production of Medical Radioisotopes

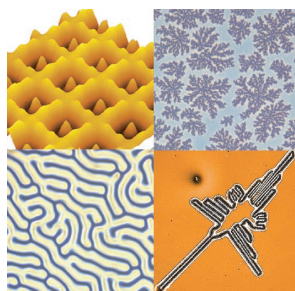
Yoshitaka Fujita,* Tomotake Niizeki, Nobuyoshi Fukumitsu, Katsuhiko Ariga, Yusuke Yamauchi, Victor Malgras, Yusuf Valentino Kaneti, Chia-Hung Liu, Kentaro Hatano, Hisayuki Suematsu, Tatsuya Suzuki, and Kunihiko Tsuchiya
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 129-137 doi:10.1246/bcsj.20210249

Account/Review for Masterpiece Materials with Functional Excellence

Open Access

Keywords: Polymer films | Photoreaction | Surface morphing
Unconventional Approaches to Light-Promoted Dynamic Surface Morphing on Polymer Films

Dongyu Zhang, Danqing Liu,* Takashi Ubukata,* and Takahiro Seki*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 138-162 doi:10.1246/bcsj.20210348



Keywords: Solvatofluorochromism | Linked rotaxane structures | Donor-bridge-acceptor systems
Solvatofluorochromic Contrast with Supramolecular Stereoisomers Using Linked Rotaxane Structures to Investigate Local Solvation in Excited Donor-Bridge-Acceptor Systems

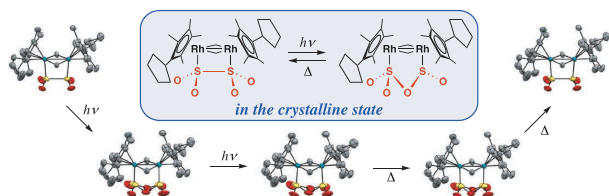
Sotaro Shimada, Hiromichi V. Miyagishi, Hiroshi Masai, Yoichi Masui, and Jun Terao*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 163-168 doi:10.1246/bcsj.20210354

Selected Paper

Keywords: Crystalline-state reaction | Photochromism | Rhodium complex

Crystalline-State Photochromism of a Newly Synthesized Rhodium Dithionite Complex with Inflexible Cyclo-Pentyl Groups

Yuu Kajiwara and Hidetaka Nakai*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 169-174 doi:10.1246/bcsj.20210396



Keywords: Silylene | Kinetic stabilization | Isomerization
A Thermally Robust Cyclic Dialkylsilylene

Takashi Abe, Shintaro Ishida,* and Takeaki Iwamoto*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 175-177 doi:10.1246/bcsj.20210399

Keywords: FeCoNi ternary hydroxides | Grinding method | Oxygen evolution reaction (OER)

2-Methylimidazole-Induced Synthesis of 2D Amorphous FeCoNi Ternary Hydroxides Nanosheets by Mechanochemical Approach for Oxygen Evolution Reaction

Junchao Ma, Wenxiu He, Fanbao Meng,* and Yu Fu*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 178-184 doi:10.1246/bcsj.20210362

Keywords: Hydrazones | Biological activity | TD-DFT

Synthesis and Characterization of Novel 2-Pyridine Mono(thio)carbohydrazones as Promising Antioxidant and Antimicrobial Agents. Experimental and Theoretical Approach

Gorana Mrđan,* Aleksandar Tot, Milan Vraneš, Milena Rašeta, Petar Knežević, Tatjana Verbič, and Borko Matijević
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 185-194 doi:10.1246/bcsj.20210326

Essay for Masterpiece Materials with Functional Excellence

Open Access

Keywords: Lithium-ion battery | Breakthrough | Nobel Prize in Chemistry

The Lithium-ion Battery: Two Breakthroughs in Development and Two Reasons for the Nobel Prize

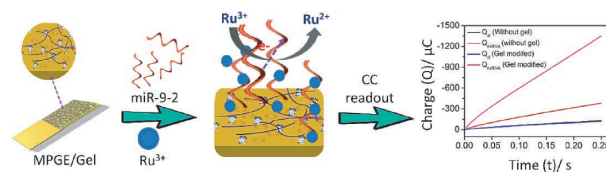
Akira Yoshino
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 195-197 doi:10.1246/bcsj.20210338



Selected Paper

Keywords: Mesoporous metals | Gold electrode | MicroRNA sensor
κ-Carrageenan Gel Modified Mesoporous Gold Chronocoulometric Sensor for Ultrasensitive Detection of MicroRNA

Bidita Salahuddin, Mostafa Kamal Masud,* Shazed Aziz, Chia-Hung Liu, Nasim Amiralian, Aditya Ashok, S. M. Azad Hossain, Hyeongyu Park, Md Abdul Wahab, Mohammed A. Amin, M. Adharvana Chari, Alan E. Rowan, Yusuke Yamauchi, Md. Shahriar A. Hossain,* and Yusuf Valentino Kaneti*
Bull. Chem. Soc. Jpn. 2022, 95, No. 1, pp. 198-207 doi:10.1246/bcsj.20210286



Keywords: Photoalignment | Liquid crystalline polymer | Schiff base
Birefringence Control of Photoalignable Liquid Crystalline Polymers Based on an *In Situ* Exchange of Oriented Mesogenic Side Groups

Ayaka Sakai, Toshiki Noshizono, Mizuho Kondo, Tomoyuki Sasaki, Moritsugu Sakamoto, Hiroshi Ono, and Nobuhiro Kawatsuki*
Chem. Lett. 2022, 51, No. 2, pp. 91-93 doi:10.1246/cl.210617

Open Access

Keywords: Aryne | Azide | Triazole
3-Azidoarynes: Generation and Regioselective Reactions

Jumpei Taguchi, Kota Kimura, Kazunobu Igawa, Katsuhiko Tomooka, and Takamitsu Hosoya*
Chem. Lett. 2022, 51, No. 2, pp. 94-98 doi:10.1246/cl.210632

Keywords: Fe-MOF-235 | Metal-organic framework | OER
Fe-MOF-235 as an Efficient and Stable Electrocatalyst for the Oxygen Evolution Reaction

Jiangtao Liu, Lin Fu, Xuegang Peng, Tong Pei, Zhihua Gao, Wei Huang,* and Zhijun Zuo*
Chem. Lett. 2022, 51, No. 2, pp. 99-102 doi:10.1246/cl.210485

Open Access

Keywords: Choline phosphonate | Electrostatic interaction | Phosphorylcholine
Association Behavior of a Homopolymer Containing Choline Phosphonate Groups in Aqueous Solutions

Thi Lien Nguyen, Masaru Mukai, Daiki Ihara, Atsushi Takahara, and Shin-ichi Yusa*
Chem. Lett. 2022, 51, No. 2, pp. 103-106 doi:10.1246/cl.210601

Keywords: Artificial photosynthesis | Layered materials | Oxygen evolution
Photocatalytic Water Oxidation by Phosphotungstate and Mg-Al Layered Double Hydroxide Hybrid

Akinobu Miyoshi,* Yuto Shimoyama, Hiroto Mogi, Hiroki Ubukata, Naoki Hirayama, Ayu Tanaka, Kenji Arai, Soichiro Morita, Tatsuto Yui, Sayaka Uchida, Teruki Motohashi, Yoshiyuki Inaguma, Hiroshi Kageyama, and Kazuhiko Maeda
Chem. Lett. 2022, 51, No. 2, pp. 107-110 doi:10.1246/cl.210621

Keywords: Ni-based alloys | Acetylene hydrogenation | Planetary ball milling
Mechanochemical Acetylene Hydrogenation on Fragments of Ni-based Alloys Containing Oxophilic Metal Elements

Tomoaki Takayama and Takayuki Komatsu*
Chem. Lett. 2022, 51, No. 2, pp. 111-113 doi:10.1246/cl.210600

Open Access

Keywords: Saccharide | Fuel cell | PEDOT
High Power Sugar Fuel Cells Using PEDOT*PSS, CNT and PtRu Composite Anode

Keiichi Kaneto* and Sadahito Uto
Chem. Lett. 2022, 51, No. 2, pp. 114-117 doi:10.1246/cl.210656

Keywords: Black phosphorus | Quasi-high pressure effect | Carbon nanotube
Direct Evidence of Black Phosphorus Formation in Carbon Nanospaces by Quasi-high Pressure Effect

Yuki Komine, Koki Urita,* Hiroo Notohara, and Isamu Moriguchi*
Chem. Lett. 2022, 51, No. 2, pp. 118-120 doi:10.1246/cl.210644

Keywords: Structure-directing agent | Dual templating | Intergrowth zeolite
Dual Templating for AFX/LEV Intergrowth Zeolite

Nao Tsunoji,* Hermann Gies, Natsumi Funase, Ute Kolb, Toshiyuki Yokoi,* Masahiro Sadakane, and Tsuneji Sano
Chem. Lett. 2022, 51, No. 2, pp. 121-123 doi:10.1246/cl.210605

Keywords: Stille coupling | UV-light irradiation | Singlet oxygen
Irradiation with UV Light Accelerates the Migita-Kosugi-Stille Coupling Reaction in Air

Takumi Ishikawa, Mako Murata, Hiroshi Masai, Tomohiro Iwai, and Jun Terao*
Chem. Lett. 2022, 51, No. 2, pp. 124-126 doi:10.1246/cl.210665

Keywords: ZIF-8 | AgNPs | Antibacterial
Hollow Core-satellite ZIF-8/PDA/AgNPs Nanocomplexes: Fabrication, Structure and Antibacterial Activity

Xiaoyi Xu, Qiqi Liu, Shuhan Hui, and Shan Jiang*
Chem. Lett. 2022, 51, No. 2, pp. 127-130 doi:10.1246/cl.210619

Keywords: Boehmite | Calcination temperature | Liquid-flow reactor
Boehmite-derived Aluminum Oxide Catalyst for a Continuous Intramolecular Aldol Condensation of 2,5-Hexanedione to 3-Methyl-2-cyclopentenone in a Liquid-flow Reactor System

Shun Nishimura,* Son Dinh Le, Yusaku Asai, Natsuki Takahashi, Maho Endo, and Shintaro Ohmatsu
Chem. Lett. 2022, 51, No. 2, pp. 131-134 doi:10.1246/cl.210616

Open Access

Keywords: Nickel oxide film | Anodization | Urea electro-oxidation
Electrochemical Preparation of Highly Oriented Microporous Structure Nickel Oxide Films as Promising Electrodes in Urea Oxidation

Yulia M T A Putri, Jarnuzi Gunlazuardi, and Tribidasari A Ivandini*
Chem. Lett. 2022, 51, No. 2, pp. 135-138 doi:10.1246/cl.210634

Keywords: Zero-mode waveguides | Single-molecule measurements | Aptamer
Single-molecule Fluorescence Kinetic Sandwich Assay Using a DNA Sequencer

Kiyohiko Kawai* and Mamoru Fujitsuka
Chem. Lett. 2022, 51, No. 2, pp. 139-141 doi:10.1246/cl.210726

Keywords: Photoreaction | Isoquinoline alkaloids | Benzyltrifluoroborate
Photochemical Synthesis of Benzylisoquinoline Alkaloids Using Tetra-coordinate Benzylboron Reagents: Application to Berberine Type Alkaloids

Takumi Makiura and Yutaka Nishigaichi*
Chem. Lett. 2022, 51, No. 2, pp. 142-144 doi:10.1246/cl.210689

Keywords: Supramolecules | Composite materials | Thermoresponsive hydrogels
Thermoresponsive Hydrogels Reinforced with Supramolecular Cellulose Filler

Akikihide Sugawara, Taka-Aki Asoh,* Yoshinori Takashima, Akira Harada, and Hiroshi Uyama*
Chem. Lett. 2022, 51, No. 2, pp. 145-148 doi:10.1246/cl.210658

Open Access

Keywords: CO₂ hydrogenation | C-methylation | One-pot synthesis
Catalytic Methylation of Benzene over Pt/MoO_x/TiO₂ and Zeolite Catalyst Using CO₂ and H₂

Kah Wei Ting, Takuto Imbe, Haruka Kamakura, Zen Maeno, S. M. A. Hakim Siddiki, Koichi Matsushita, Ken-ichi Shimizu,* and Takashi Toyao*
Chem. Lett. 2022, 51, No. 2, pp. 149-152 doi:10.1246/cl.210664

Open Access

Keywords: Indole | Photoremovable protecting group | Two-photon excitation
2-(4-Nitrophenyl)-1*H*-indolyl-3-methyl Chromophore: A Versatile Photocage that Responds to Visible-light One-photon and Near-infrared-light Two-photon Excitations

Qianghua Lin, Runzhao Guo, Kozue Hamao, Ryukichi Takagi, and Manabu Abe*
Chem. Lett. 2022, 51, No. 2, pp. 153-156 doi:10.1246/cl.210668

Keywords: CO oxidation | Spinel titanates (Li₄Ti₅O₁₂ and Na₃LiTi₅O₁₂) | Au catalyst

CO Oxidation Activity of Au on Spinel Titanate Supports: Improvement of Catalytic Activity via Alkali Cation Substitution from Li₄Ti₅O₁₂ to Na₃LiTi₅O₁₂

Kohei Tada,* Mitsunori Kitta, and Shingo Tanaka
Chem. Lett. 2022, 51, No. 2, pp. 157-161

doi:10.1246/cl.210594

Keywords: Ionic liquid crystal | Thin film | Electric double layer

Electric Double Layer Action of High-quality Ionic Liquid Crystal Thin Films

Haruka Komatsu, Miyuki Tanaka, Kenichi Kaminaga, Shingo Maruyama,* and Yuji Matsumoto

Chem. Lett. 2022, 51, No. 2, pp. 162-165

doi:10.1246/cl.210692

Keywords: Hydrogen molybdenum bronze | Hydrodeoxygenation | Surface plasmon resonance

Hydrodeoxygenation of Aromatic Ketones under Mild Conditions over Pd-loaded Hydrogen Molybdenum Bronze with Plasmonic Features

Yasutaka Kuwahara,* Masahiro Okada, Hao Ge, and Hiromi Yamashita*

Chem. Lett. 2022, 51, No. 2, pp. 166-169

doi:10.1246/cl.210706

Keywords: Heteroatom exchange | Oxazoline-enols | Dithiooxophosphorane analogues

Heteroatom Exchange Chemistry in (Z)-1-R-2-(4',4'-dimethyl)-2'-oxazolin-2'-yl)-eth-1-en-1-ols: Access to Chelate-stabilized Thioester Analogues of Dithiooxophosphoranes

Matthew C. Hill, Alan J. Lough, and Robert A. Gossage*

Chem. Lett. 2022, 51, No. 2, pp. 170-172

doi:10.1246/cl.210702

Keywords: Density functional theory | Titanium *n*-butoxide derivative | OH bridge

DFT Analysis of the Formation of a Titanium *n*-Butoxide Derivative [Ti(O(CH₂)₃CH₃)₂Cl·OH]₂ through OH Bridge Formation and Molecular Interactions between Butoxy Groups

Katsuhiko Koike

Chem. Lett. 2022, 51, No. 2, pp. 173-176

doi:10.1246/cl.210662

Keywords: Cadmium sulfide | Chemical bath deposition | Adhesion Problems with the Adhesion of Chemical-solution-deposited Films? Solving the Problem of CdS Thin Film Adhesion with a Very Simple and Green Chemical Procedure

Jorge A. García-Valenzuela,* Martha R. Baez-Gaxiola, and Marcos Cota-Leal

Chem. Lett. 2022, 51, No. 2, pp. 177-181

doi:10.1246/cl.210667

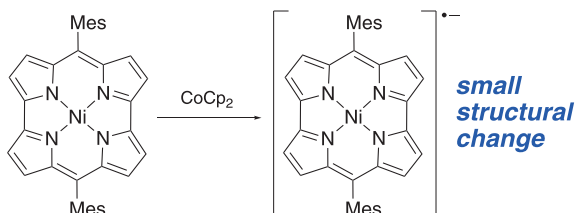
Editor's Choice Open Access

Keywords: Radical anion | Porphyrinoid | Antiaromatic Isolation and Structure Analysis of a Ni(II) Norcorrole Radical Anion

Shusaku Ukai, Norihito Fukui, Takahisa Ikeue, and Hiroshi Shinokubo*

Chem. Lett. 2022, 51, No. 2, pp. 182-184

doi:10.1246/cl.210715



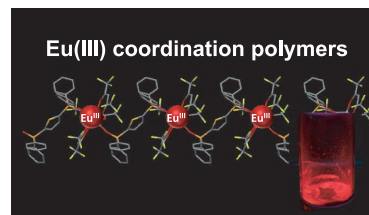
Vol. 50 Commemorative Highlight Review Open Access

Keywords: Lanthanide | Luminescent | Coordination polymer Luminescent Eu(III)-based Coordination Polymers for Photonic Materials

Yasuchika Hasegawa,* Sunao Shoji, and Yuichi Kitagawa

Chem. Lett. 2022, 51, No. 2, pp. 185-196

doi:10.1246/cl.210650



Keywords: SrAl₂O₄:Eu,Dy | Amorphous precursor | Afterglow property

The State of Dy Incorporated in SrAl₂O₄ Crystals by Low-temperature Annealing and Its Photoluminescence and Afterglow Properties

Hitomi Nakamura,* Tomoko Akai, and Kohei Kadono

Chem. Lett. 2022, 51, No. 2, pp. 197-200

doi:10.1246/cl.210654

Keywords: Probe | Sensitive detection | Glu

A Multifunctional Luminescence Metal-Organic Framework Sensor for the Neuropathy Biomarker Glutamic Acid

Yakun Zhang, Lefa Zhao, and Ce Gao*

Chem. Lett. 2022, 51, No. 2, pp. 201-204

doi:10.1246/cl.210624

Keywords: Quantum-cascade laser vibrational circular dichroism | Scanning function | Pharmaceutical quality control

Two-dimensional Imaging of a Model Pharmaceutical Dosage Tablet Using a Scanning Vibrational Circular Dichroism System

Hisako Sato,* Sumio Aisawa, Honoka Ida, Masaru Shimizu, Keisuke Watanabe, Jun Koshoubu, Jun Yoshida, and Izuru Kawamura

Chem. Lett. 2022, 51, No. 2, pp. 205-207

doi:10.1246/cl.210635

Keywords: Bioimaging | IR-1061 | OTN-NIR

Influence of Physiological Media on over-1000 nm NIR Fluorescent DSPE-PEG Micelles for Bio-imaging

Thi Kim Dung Doan,* Masakazu Umezawa,* Hisanori Kobayashi, Atsushi Oshima, Kazuno Ikeda, Kyohei Okubo, Masao Kamimura, and Kohei Soga

Chem. Lett. 2022, 51, No. 2, pp. 208-211

doi:10.1246/cl.210700

Keywords: Droplet microfluidics | Polydimethylsiloxane | Laser micromachining

Rapid Fabrication of a Pumpless PDMS Microfluidic Device Using CO₂ Laser Micromachining for Automated Formation of Monodisperse Water-in-Oil Droplets

Shotaro Okayama, Masaya Nakatani, and Masahiko Hashimoto*

Chem. Lett. 2022, 51, No. 2, pp. 212-216

doi:10.1246/cl.210566