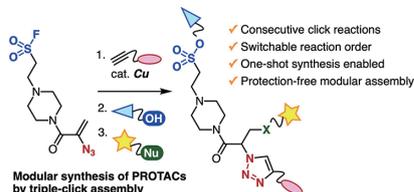


BCSJ Award Article Open Access

Keywords: azides | click chemistry | PROTACS
 Rapid synthesis of proteolysis-targeting chimeras by consecutive click assembly

Yuri Taninaga, Gaku Orimoto, Maho Miyamoto, Kaho Yamada, Hidetomo Yokoo, Yosuke Demizu, and Suguru Yoshida*
Bull. Chem. Soc. Jpn. 2025, 98, No. 12, uoaf115 doi:10.1093/bulcsj/uoaf115



BCSJ 100th Anniversary Collection Selected Paper

Open Access

Keywords: catalytic degradation | cobaltocene | SF₆
 Stoichiometric and catalytic degradation of SF₆ with cobaltocene

Vanessa A Béland, Nils Nöthling, and Josep Cornella*
Bull. Chem. Soc. Jpn. 2025, 98, No. 12, uoaf114 doi:10.1093/bulcsj/uoaf114



Keywords: affinity capillary electrophoresis | intermolecular interaction | moment theory

Moment analysis of intermolecular interactions by using affinity capillary electrophoresis

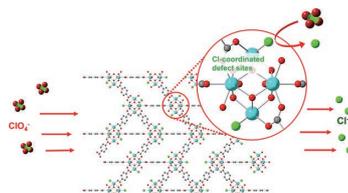
Kanji Miyabe* and Yuka Sugiyama
Bull. Chem. Soc. Jpn. 2025, 98, No. 12, uoaf113 doi:10.1093/bulcsj/uoaf113

Selected Paper

Keywords: defective UiO-66 | metal-organic framework | perchlorate anion

Removal of perchlorate anion from water using an anion-exchangeable Zr metal-organic framework UiO-66 containing chloride-coordinated defect sites

Umme Fariha Tasnim, Aditya Irfan Witono, Xin Zheng, Yuichi Kamiya, and Shin-ichiro Noro*
Bull. Chem. Soc. Jpn. 2025, 98, No. 12, uoaf111 doi:10.1093/bulcsj/uoaf111



Open Access

Keywords: infrared spectroscopy | phase transition | phospholipid bilayer

FTIR study of temperature- and pressure-induced phase transitions and intermolecular interaction changes in DMPC bilayers in H₂O and D₂O

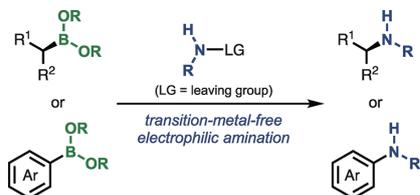
Toshiki Nakao, Hitoshi Matsuki, and Minoru Kato*
Bull. Chem. Soc. Jpn. 2025, 98, No. 12, uoaf105 doi:10.1093/bulcsj/uoaf105

Chemistry Letters

Highlight Review Free Access

Keywords: amination | boronic acid derivatives | transition-metal-free method
 Transition-metal-free electrophilic amination of boronic acid derivatives

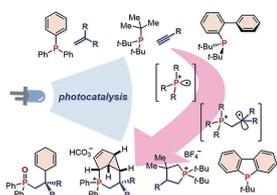
Kensuke Kiyokawa* and Satoshi Minakata*
Chem. Lett. 2025, 54, No. 12, upaf215 doi:10.1093/chemle/upaf215



Highlight Review Free Access

Keywords: photoredox catalysis | radical | tertiary phosphine
 Photocatalytic transformations of tertiary phosphines through precise control of organophosphorus radicals

Yusuke Masuda*
Chem. Lett. 2025, 54, No. 12, upaf214 doi:10.1093/chemle/upaf214



Keywords: bactericide | lysis | nanoparticle
 Antibacterial mechanisms of lipid extraction by MXene nanosheets

One-Sun Lee and Sung Haeng Lee*
Chem. Lett. 2025, 54, No. 12, upaf234 doi:10.1093/chemle/upaf234

Keywords: deep eutectic solvents | lanthanides | solvent extraction
 Hydrophobic natural deep eutectic solvents for lanthanides extraction

Marc Castelló Escuriet,* Maria Boltoeva, Dominique Trébouet, and Masahiko Nakase
Chem. Lett. 2025, 54, No. 12, upaf227 doi:10.1093/chemle/upaf227

Keywords: DNA cross-linking | DNA photoreaction | psoralen
 Influence of DNA topology on the photoreactions of various psoralen derivatives with duplex DNAs

Md Al Amin, Ryusei Senda, Kotono Hisatomi, Kazuhisa Fujimoto,* and Takanori Oyoshi*
Chem. Lett. 2025, 54, No. 12, upaf232 doi:10.1093/chemle/upaf232

Keywords: core-shell structure | patchy particles | photodegradable polymer
 Phototriggered formation of Janus particles from core-shell particles

Kazuya Miyata, Mitsuki Nakamura, Hinano Morimoto, Toyoko Suzuki, Hideto Minami, and Nozomu Suzuki*
Chem. Lett. 2025, 54, No. 12, upaf226 doi:10.1093/chemle/upaf226

Keywords: density functional theory (DFT) | phthalocyanine and porphyrin | polymer electrolyte fuel cell (PEFC) anode

Theoretical investigation on catalytic electrooxidation of CO by Rh^{III} complexes: insight from molecule–surface interaction

Kohei Tada,* Shin-ichi Yamazaki, Shoma Kinugawa, Yasutaka Kitagawa, and Shingo Tanaka
Chem. Lett. 2025, 54, No. 12, upaf223 doi:10.1093/chemle/upaf223

Keywords: stimuli-responsive gel | double-network gel | myosin
Stimuli-responsive myosin-polyacrylamide double-network gel: ionic strength-dependent mechanical properties and volume changes

Ken-Ichi Sano,* Lishuang Xia, Tasuku Nakajima, and Yoshihito Osada
Chem. Lett. 2025, 54, No. 12, upaf225 doi:10.1093/chemle/upaf225

Keywords: copper-mediated [3 + 2] cycloaddition | N-terminal dual modification | protein modification
N-terminal dual functionalization of proteins via copper-mediated [3 + 2] cycloaddition of triazolecarbaldehyde with maleimide

Yan Zhang, Kosuke Odani, and Akira Onoda*
Chem. Lett. 2025, 54, No. 12, upaf221 doi:10.1093/chemle/upaf221

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Keywords: CS₂ gas sulfurization | nanoparticles | yttrium oxysulfide
Facile and scalable synthesis of Y₂O₃S nanoparticles via Y(OH)₃ precursor preparation and CS₂ sulfurization

Yuzuki Kanazawa, Hiroki Nishijima, Kazunobu Ishibashi, Takashi Hisatomi, Kazunari Domen, and Kiyoshi Kanie*
Chem. Lett. 2025, 54, No. 12, upaf222 doi:10.1093/chemle/upaf222

Keywords: dinuclear complex | magnetic properties | N₄O₈ coordination environment
Novel dinuclear Fe^{II} complex with a dithiosquarato bridging ligand

Ryosuke Taniai and Masaya Enomoto*
Chem. Lett. 2025, 54, No. 12, upaf220 doi:10.1093/chemle/upaf220

Keywords: laser writing | plasmon-mediated reaction | silver nanostructures
Plasmon-mediated deposition and electrochemical decomposition of silver nanostructures on a gold-nanoparticle/ITO electrode

Hiroyuki Yoshikawa*
Chem. Lett. 2025, 54, No. 12, upaf219 doi:10.1093/chemle/upaf219

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Keywords: biogas fuel | fuel utilization | solid oxide fuel cell
Performance of solid oxide fuel cells directly using biogas fuel at high fuel utilizations

Jingyi Tan, Aki Miyawaki, Shinya Teranishi, Masahiro Nagao, and Takashi Hibino*
Chem. Lett. 2025, 54, No. 12, upaf218 doi:10.1093/chemle/upaf218

Keywords: ethanol oxidation reaction | ionic liquid/metal sputtering | ternary CuAuPd alloy nanoparticle
Composition-dependent ethanol electrooxidation activity of CuAuPd alloy nanoparticles prepared by an ionic liquid/metal sputtering technique

Yixiong Liu, Kazutaka Akiyoshi,* Tatsuya Kameyama, Susumu Kuwabata, and Tsukasa Torimoto*
Chem. Lett. 2025, 54, No. 12, upaf217 doi:10.1093/chemle/upaf217

Keywords: cellulose nanofiber | chirality inversion | circular dichroism
Drying-induced inversion of circular dichroism spectra of thioflavin T adsorbed on TEMPO-oxidized cellulose nanofibers

Hitoshi Watarai*
Chem. Lett. 2025, 54, No. 12, upaf212 doi:10.1093/chemle/upaf212

Keywords: luminescence | organic radicals | regioisomers
Effects of substitution position on luminescence properties of carbazole-containing monoradicals

Yoshika Takewaki, Asato Mizuno,* Ryohei Kishi, and Tetsuro Kusamoto*
Chem. Lett. 2025, 54, No. 12, upaf213 doi:10.1093/chemle/upaf213

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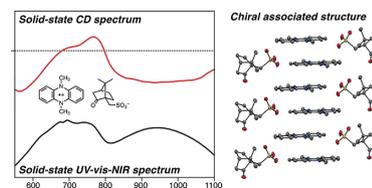
Keywords: co-crystal | molecular recognition | tetraoxa[4]arene
Selective and reversible acetone inclusion in crystals of a π -deficient tetraoxa[4]arene via hydrogen bonding

Hideyuki Takahashi, Hayato Kobayashi, Tadashi Kawasaki, and Akiko Hori*
Chem. Lett. 2025, 54, No. 12, upaf211 doi:10.1093/chemle/upaf211

Editor's Choice **Free Access**

Keywords: chiroptical property | magnetic property | radical cation
Synthesis and properties of dimethyldihydrophenazine radical cation with camphorsulfonate ion

Ritsuki Tanaka, Soichiro Kawamorita, Takeshi Naota, Daisuke Shiomi, Yui Tanaka, Kazunobu Sato, Nobuto Yoshinari, and Shuichi Suzuki*
Chem. Lett. 2025, 54, No. 12, upaf210 doi:10.1093/chemle/upaf210



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Keywords: acylsemicarbazide | coating | oxidative degradation
Oxidative degradation of acylsemicarbazide and its polymers

Tsukushi Shimohiro, Midori Katayama, and Nobuhiro Kihara*
Chem. Lett. 2025, 54, No. 12, upaf209 doi:10.1093/chemle/upaf209

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Keywords: heteroaromatic compound | solubility | π -conjugated macrocycle
Highly soluble cyclic dibenzophenazine heterodimer enabled by a tetra-functionalized building block

Naohiro Namba, Fumiya Ogura, Marc K Etherington, Satoshi Minakata,* and Youhei Takeda*
Chem. Lett. 2025, 54, No. 12, upaf216 doi:10.1093/chemle/upaf216

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Keywords: quinacridone derivative | solvatochromism | stimuli-responsive optical material
Solvent- and silica-triggered chromic behavior of a quinacridone-indandione derivative

Xue-Lin Zheng and Yutaka Matsuo*
Chem. Lett. 2025, 54, No. 12, upaf208 doi:10.1093/chemle/upaf208