

Accounts and Reviews BCSJ 100th Anniversary Collection

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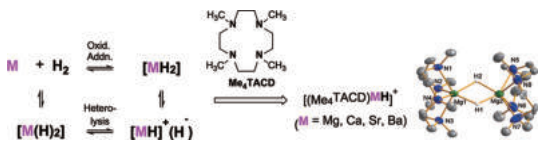
Keywords: alkaline earth metal hydrides | dihydrogen activation | hydrofunctionalization catalysts

Molecular hydrides of alkaline earth metals supported by azamacrocycles

Jun Okuda*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoag004

doi:10.1093/bulcsj/uoag004



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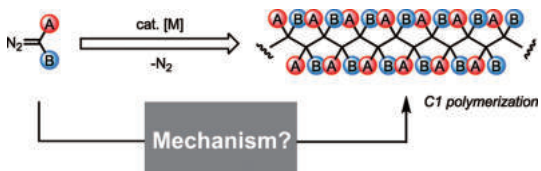
Keywords: C1 polymerization | diazo compounds | mechanism

Mechanistic insights into transition-metal-catalyzed C1 polymerization of diazo compounds

Yunpeng Gao and Jianbo Wang*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf125

doi:10.1093/bulcsj/uoaf125



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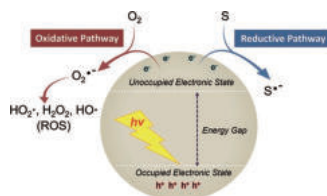
Keywords: carbon photocatalyst | radical | ROS

Carbon-based photocatalysis in organic transformation

Md. Razu Ahmed and Yuta Nishina*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf123

doi:10.1093/bulcsj/uoaf123



BCSJ Award Article Free Access

Keywords: chemical recycling | epoxy resin | Lewis acid

Lewis acid-catalyzed C(sp³)-O cleavage of β-hydroxyalkyl aryl ether and its application to the recovery of bisphenol A from amine-cured epoxy resins

Takaya Kondo, Kohei Takahashi,* Shintaro Nakagawa, Naoko Yoshie, and Kyoko Nozaki*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf122

doi:10.1093/bulcsj/uoaf122



Selected Paper Open Access

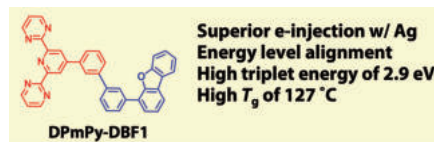
Keywords: electron-injection material | electron-transport material | organic light-emitting device

A multifunctional dipyrimidylypyridine electron-transporter combined with Ag for robust and efficient organic light-emitting diodes

Yuhui Chen, Takeshi Sano,* Naoki Meguro, Taisei Kotaka, Junji Kido, and Hisahiro Sasabe*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoag003

doi:10.1093/bulcsj/uoag003



A new ETL exhibits multifunctionality, serving as the HBL, ETL, and EIL w/ Ag.

Selected Paper

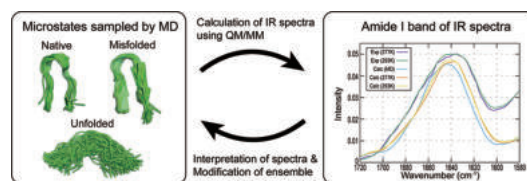
Keywords: IR spectroscopy | molecular dynamics simulations | QM/MM

Molecular dynamics-quantum mechanical/molecular mechanical simulation of amide I infrared spectra to identify protein conformational ensembles: a case study of chignolin

Hiraku Oshima,* Shogo Fukatsu, Wataru Sato, Kiyoshi Yagi,* and Minoru Kubo*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoag001

doi:10.1093/bulcsj/uoag001



Keywords: carbon nanotube | hydrogen annealing | iron-mono-selenide nanomaterial

Formation of crystalline iron-mono-selenide in the restricted one-dimensional space of single-walled carbon nanotubes promoted with H₂ annealing

Yuji Saiki and Shunji Bandow*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf124

doi:10.1093/bulcsj/uoaf124

Keywords: plastic crystal | shielding effect | solid-state NMR
Shielding effects of isopropyl groups on forming ionic plastic crystals of [NEt_xMe_(2-x)(i-Pr)₂][[BEt₃R] (x = 0 to 2; R = Me, Et)

Yuuna Okubo, Katsumi Nagai, and Hisashi Honda*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf118

doi:10.1093/bulcsj/uoaf118

Keywords: nucleophilic aromatic substitution | tetrapyridylmethane | three-dimensional network

Synthesis and hydrogen-bonding network of tetra-3-pyridylmethane

Kouzou Matsumoto,* Koji Onishi, Kazuaki Kawashita, Daisuke Takajo, Hiroyuki Kurata, and Takashi Kubo

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf120

doi:10.1093/bulcsj/uoaf120

Keywords: molecular crowding | osmotic pressure | volume exclusion
Revolutionizing molecular-crowding concepts: investigation of oxine complexation in methanol solutions

Akihisa Miyagawa*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf116

doi:10.1093/bulcsj/uoaf116

Keywords: **carborane** | **circularly polarized luminescence** | **heterohelicene**

Regulation of circularly polarized emission properties of oxabora[6]helicene by inducing dual-emission properties using o-carborane introduction

Kazuhiro Yuhara and Kazuo Tanaka*

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf117

doi:10.1093/bulcsj/uoaf117

Retraction Free Access

Retraction of: Self-Assembly of Discrete Organic Nanotubes

Bull. Chem. Soc. Jpn. 2026, 99, No. 1, uoaf112

doi:10.1093/bulcsj/uoaf112

Chemistry Letters

Highlight Review Free Access

Keywords: **hydroxyperfluoroalkylation** | **photochemistry** | **styrene** Recent advances in metal-free photoinduced hydroxyperfluoroalkylation of styrenes

Airi Yamaguchi and Tomoko Yajima*

Chem. Lett. 2026, 55, No. 1, upaf230

doi:10.1093/chemle/upaf230



Keywords: **photoiniferter** | **RAFT** | **xanthate** Fast, oxygen-tolerant RAFT polymerization of hydrogels

Adrian A Lorenzana, John Klier, and Shelly R Peyton*

Chem. Lett. 2026, 55, No. 1, upaf229

doi:10.1093/chemle/upaf229

Keywords: **bimetallic complex** | **oxidation** | **rhodium** Synthesis, structure, and reactivity of dirhodium(II) complexes bearing a tetramethylcyclopentadienyl-bipyridine ligand

Yuto Morita and Jun Takaya*

Chem. Lett. 2026, 55, No. 1, upaf245

doi:10.1093/chemle/upaf245

Keywords: **device stability** | **Dexter energy transfer** | **hyperfluorescence** Substituent modification to prevent Dexter energy transfer for stable hyperfluorescent organic light-emitting diodes

Chanhee Lee, Youichi Tsuchiya,* Sae Youn Lee,* and Chihaya Adachi*

Chem. Lett. 2026, 55, No. 1, upaf240

doi:10.1093/chemle/upaf240

Open Access

Keywords: **fragment molecular orbital method** | **fragmentation** | **peptide bond carbonyl oxygen** Automatic detection of interacting carbonyl oxygens in peptide bond for the fragment molecular orbital method

Ryohei Yoshine, Hideo Doi, Koji Okuwaki, and Yuji Mochizuki*

Chem. Lett. 2026, 55, No. 1, upaf238

doi:10.1093/chemle/upaf238

Keywords: **cell autofluorescence** | **diffusion** | **fluorescence correlation spectroscopy** Label-free visualization of multimodal diffusion dynamics in live cells via in-cell two-dimensional fluorescence lifetime correlation spectroscopy

Sandeep Yadav, Kenji Okamoto, Yasushi Sako, Kunihiko Ishii,* and Tahei Tahara*

Chem. Lett. 2026, 55, No. 1, upaf244

doi:10.1093/chemle/upaf244

Open Access

Keywords: **diffusion** | **potassium** | **pulsed-field gradient nuclear magnetic resonance** Analyzing potassium-ion diffusion in aqueous solutions through pulsed-field gradient NMR

Hideka Ando,* Kenjiro Hashi, Shinobu Ohki, and Yuuki Mogami

Chem. Lett. 2026, 55, No. 1, upaf243

doi:10.1093/chemle/upaf243

Keywords: **iridium porphyrin** | **photoluminescence** | **supramolecular framework** Synthesis and photophysical properties of an Ir(III)-porphyrin-based supramolecular framework

Akira Yoneda, Jumpei Ueda, Kento Kosugi, Tetsuya Kambe, Mio Kondo,* and Shigeyuki Masaoka*

Chem. Lett. 2026, 55, No. 1, upaf242

doi:10.1093/chemle/upaf242

Keywords: **barium stannate** | **cube-shaped particle** | **one-step hydrothermal synthesis** One-step synthesis of monodisperse cube-shaped BaSnO₃ particles

Yoko Takada* and Koichi Hamamoto

Chem. Lett. 2026, 55, No. 1, upaf241

doi:10.1093/chemle/upaf241

Keywords: **cinnamoyl group** | **grafting-from method** | **photocrosslinkable multibranching polymer** Synthesis of photocrosslinkable multibranching polymers having cinnamoyl groups at chain ends

Kaoru Adachi,* Yuki Kokita, and Takeru Iwamura

Chem. Lett. 2026, 55, No. 1, upaf237

doi:10.1093/chemle/upaf237

Keywords: **alginate** | **cyclodextrin** | **gel** Facile one-step synthesis of β -cyclodextrin-substituted alginate with host-guest recognition ability via aqueous condensation reaction

Hiroimitsu Sogawa,* Yusaku Hirano, Satoko Kanatani, Yoshinori Takashima, and Fumio Sanda*

Chem. Lett. 2026, 55, No. 1, upaf239

doi:10.1093/chemle/upaf239

Keywords: **epoxy** | **thermoset** | **polymer brush** | **methacrylate** Networks from highly crosslinked polymer combs

Adrian A. Lorenzana, John Klier, and Shelly R. Peyton*

Chem. Lett. 2026, 55, No. 1, upaf224

doi:10.1093/chemle/upaf224

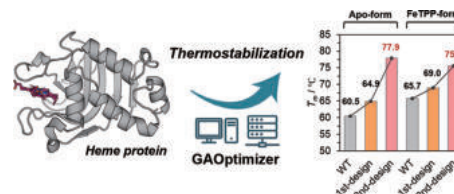
Editor's Choice Open Access

Keywords: **computational redesign** | **heme protein** | **porphyrin** Computational redesign of the heme acquisition protein HasA for enhanced thermostability while retaining its ability to bind synthetic metalloporphyrins

Sukyeong Kim, Aketo Urushibata, Nanako Yamauchi, Hiroshi Sugimoto,* Shogo Nakano,* and Osami Shoji*

Chem. Lett. 2026, 55, No. 1, upaf236

doi:10.1093/chemle/upaf236



Keywords: **dibenzofuran** | **organic light-emitting diodes** | **TADF** Regio-isomeric effect of dibenzofuran-based host materials on photophysics and device performance in organic light-emitting diodes

Yanmei Hu, Yufang Li, Chin-Yiu Chan, Youichi Tsuchiya,* and Chihaya Adachi*

Chem. Lett. 2026, 55, No. 1, upaf235

doi:10.1093/chemle/upaf235

Keywords: cytosolic peptide:N-glycanase |
endo- β -N-acetylglucosaminidase | split intein

Construction of a detection method for endo- β -N-acetylglucosaminidase activity using engineered split inteins and glycopeptides

Midori Aikyo, Satoshi Takahashi, Nozomi Ishii, Ichiro Matsuo, Yukiko Yoshida,
Tadashi Suzuki, and Tsuyoshi Takahashi*

Chem. Lett. 2026, 55, No. 1, upaf233

doi:10.1093/chemle/upaf233

Keywords: isoprene polymerization |
isoprene-styrene copolymerization | nickel complexes

Cis-1,4-specific isoprene polymerization and isoprene-styrene copolymerization using nickel dichloride complexes with mono- or bidentate benzimidazole ligands

Kei Nishii,* Masahito Hasumi, Kohei Uyama, Yusho Takashima,
Kakeru Tsukahara, Shota Miyata, Seira Tanigawa, Takehito Kato, Yasuyuki Ueda,
Tatsunari Murakami, Shun Ohta, and Tomoyuki Toda*

Chem. Lett. 2026, 55, No. 1, upaf231

doi:10.1093/chemle/upaf231



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Trace amounts of Ni influenced in the catalytic
performance.

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