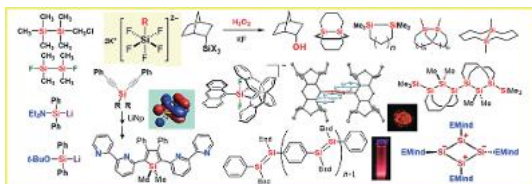


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Keywords: chemistry | synthesis | measurement  
Over half a century with organosilicon chemistry

Kohei Tamao\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag040 doi:10.1093/bulcsj/uoag040

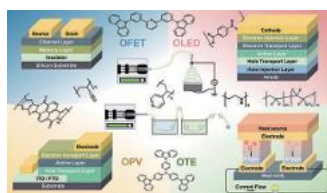


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Keywords: organic optoelectronics | organic thermoelectric generators | polymer fibers  
Recent advances of electrospun, wet-spun nanofibers, and fiber fabrics for organic optoelectronic and thermoelectric devices

Shin-Hao Shi, Chih-Wei Hsu, Ya-Shuan Wu, Cheng-Liang Liu,\* Yan-Cheng Lin,\* and Wen-Chang Chen\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag037 doi:10.1093/bulcsj/uoag037



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Keywords: metal-free | multicomponent reaction | visible-light-mediated  
Illuminating green routes: multi-component, metal-free and visible-light-assisted reactions

Pranjal K. Baruah\* and Aditi Boruah  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag033 doi:10.1093/bulcsj/uoag033

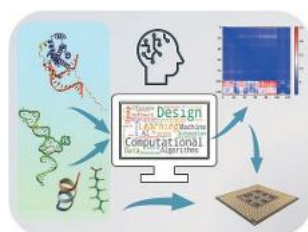


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Keywords: AI-guided molecular recognition | recognition elements | small molecule biosensor  
Small-molecule biosensing: from bio-inspired recognition elements and sensor devices to AI-guided design

Jin Wang\* and Toshihiko Kiwa  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag031 doi:10.1093/bulcsj/uoag031

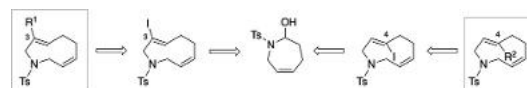


BCSJ Award Article Free Access

Keywords: dynamic chirality | planar chirality | stereochemical stability

Efficient synthesis of planar chiral diallylic 9-membered amides having a variety of substituents and stereochemical analysis thereof

Kazuhiro Uehara, Masaki Suzuki, Jun-ichi Hayashi, Kazunobu Igawa, Yuuya Kawasaki, and Katsuhiko Tomooka\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoaf121 doi:10.1093/bulcsj/uoaf121



Keywords: continuous-flow system | machine learning | polymer-supported Pd catalyst

Machine-learning-driven exploration of Suzuki–Miyaura cross-coupling with a polymer-supported Pd in continuous-flow system

Xincheng Zhou, Hikaru Matsumoto, Masanori Nagao, and Yoshiko Miura\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag038 doi:10.1093/bulcsj/uoag038

Keywords: approximate spin-projection | band calculation | stable organic radicals

A theoretical study of singly occupied molecular bands and their magnetic character in one-dimensional trioxotriangulene chains

Yukichika Kitano, Kohei Tada,\* Rikuya Hirota, Takashi Kawakami, Ryohei Kishi, and Yasutaka Kitagawa  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag036 doi:10.1093/bulcsj/uoag036

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Keywords: NHC | pseudohalides | silver(I)  
Silver(I)–NHC complexes with chalcogenocyanate ligands: synthesis and transfer reactivity

Christopher A. Dodds,\* Gavin Bain, Craig Irving, Alan R. Kennedy, and Ross Thompson  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag035 doi:10.1093/bulcsj/uoag035

Keywords: Lewis acid | rearrangement | regioselectivity  
Lewis-acid-mediated regioselectivity switching by aromatization-driven rearrangement of 5-amino-1,4-epoxy-1,4-dihydronaphthalenes

Tomoka Okada and Suguru Yoshida\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag039 doi:10.1093/bulcsj/uoag039

Keywords: intermolecular interaction | moment theory | thermodynamic characteristics

Moment analysis method using affinity capillary electrophoresis for thermodynamic study of intermolecular interactions

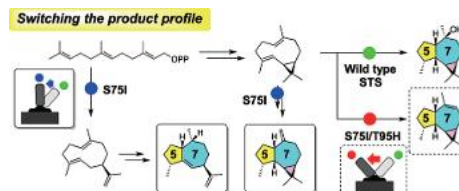
Kanji Miyabe,\* Mio Oya, and Mayu Morita  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag030 doi:10.1093/bulcsj/uoag030

Selected Paper

Keywords: functional modulation | mutational studies | sesquiterpene synthase

Structure-guided switching of carbocation quenching in sesquiterpene synthases for accessing aromadendrane and guaiane frameworks

Atsushi Suwa, Shusuke Sato, and Atsushi Minami\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag032 doi:10.1093/bulcsj/uoag032



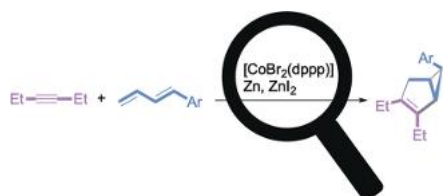
**Keywords:** graphene oxide | oxidative cleavage | porphyrin  
**Aerobic oxidative cleavage of isoeugenol to vanillin over a Co(II)-porphyrin covalently grafted on hydroxyl-rich graphene oxide**

Kaiprathu Anjali\* and Shun Nishimura\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag028 doi:10.1093/bulcsj/uoag028

**Selected Paper**

**Keywords:** bicycloaddition | cobalt(0) | reduction  
**Mechanistic insights on the bicycloaddition of conjugated dienes with internal alkynes catalyzed by the [CoBr<sub>2</sub>(dppp)]/Zn/ZnI<sub>2</sub> system**

Yusuke Tomita, Nobuyuki Komine, and Masafumi Hirano\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag027 doi:10.1093/bulcsj/uoag027



**Keywords:** Ataxin-3 | Machado-Joseph disease | protein aggregation  
**Molecular mechanism of metal-ion-induced protofibril formation of Ataxin-3**

Ippei Suzuki, Shinya Tahara, Nozomi Goso, Takahiro Morito, Dai Kato, Yusuke Hatakawa, Seon Hwa Lee, Tomoyuki Oe, Kunisato Kuroi, and Takakazu Nakabayashi\*  
*Bull. Chem. Soc. Jpn.* 2026, 99, No. 3, uoag009 doi:10.1093/bulcsj/uoag009

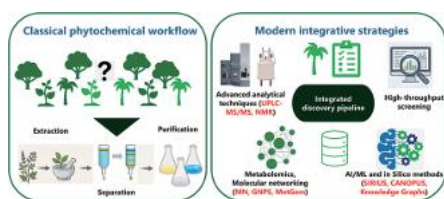
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**Highlight Review** **Free Access**

**Keywords:** metabolomics and data-driven approaches | natural products chemistry | trends in natural product discovery

**From ethnomedicine to molecular networking and beyond: strategy evolution in medicinal plant-based natural-product discovery**

Thi Hoang Yen Kieu and Emiko Yanase\*  
*Chem. Lett.* 2026, 55, No. 3, upag039 doi:10.1093/chemle/upag039

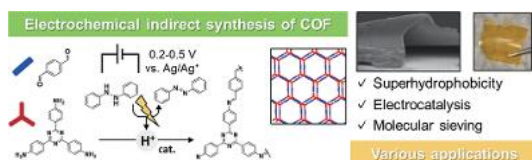


**Highlight Review** **Free Access**

**Keywords:** covalent organic frameworks | electrochemical synthesis | electrogenerated acid

**Electrochemically controlled interface synthesis and applications of imine-bonded covalent organic framework films**

Kosuke Sato,\* Kento Imamura, and Shinsuke Inagi\*  
*Chem. Lett.* 2026, 55, No. 3, upag037 doi:10.1093/chemle/upag037



**Keywords:** CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> | oxygen vacancy | photocatalysis  
**Influence of oxygen vacancy in CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> materials on photocatalytic degradation of methylene blue dye pollutants**

Cuncun Kong, Pengfei Cheng,\* Xueyan Su, Xinrui Qin, Xin Liu, Jiale Wang, and Yin Wang  
*Chem. Lett.* 2026, 55, No. 3, upag038 doi:10.1093/chemle/upag038

**Open Access**

**Keywords:** benzil | photoreaction | trialkyltin chloride  
**Photo-induced alkylation of benzil with trialkyltin chlorides**

Yutaka Nishigaichi,\* Yoshiki Goto, and Seiki Ikeda  
*Chem. Lett.* 2026, 55, No. 3, upag033 doi:10.1093/chemle/upag033

**Keywords:** nanoparticles | soap-free emulsion polymerization | thermal annealing

**Formation of polystyrene nanoparticles with a core-shell contrast by surfactant-free emulsion polymerization and thermal annealing**

Taketo Tokuda, Rei Kakitani, Chisato Kizaki, Thi Ngan Vu, Hideto Minami, Rintaro Takahashi, and Shin-ichi Yusa\*  
*Chem. Lett.* 2026, 55, No. 3, upag036 doi:10.1093/chemle/upag036

**Keywords:** chirality-dependent photoluminescence | redox-responsive biosensing | single-walled carbon nanotubes

**Potential for differentiating enzymes based on time-dependence of photoluminescence recovery rate of oxidized DNA-sWNTs**

Taiyo Hirose,\* Masahiro Ito, and Kazuo Umemura  
*Chem. Lett.* 2026, 55, No. 3, upag035 doi:10.1093/chemle/upag035

**Keywords:** gas pressure dependence | overall water splitting | reactor scale

**Increasing hydrogen and oxygen evolution rates using a directly connected composite photocatalyst, zinc rhodium oxide and silver vanadium oxide, by changing water-splitting reaction conditions**

Jingjing Zhang, Masaomi Yoda, Toshihiro Takashima, and Hiroshi Irie\*  
*Chem. Lett.* 2026, 55, No. 3, upag034 doi:10.1093/chemle/upag034

**Open Access**

**Keywords:** laser-induced microbubbles | LiCl | non-aqueous solvent  
**Concentration and crystallization of lithium chloride in tetrahydrofuran using laser-local heating and laser-induced microbubbles**

Takuro Moriyama, Kanta Iwamoto, Hayato Sasaki, Hiroshi Sakiyama, Katsuhiko Kanaizuka, and Sho Fujii\*  
*Chem. Lett.* 2026, 55, No. 3, upag032 doi:10.1093/chemle/upag032

**Keywords:** constrained-geometry catalysts | functional theory | polyolefin elastomer

### Insight into the dynamic catalytic process of constrained-geometry catalysts for ethylene/1-octene copolymerization: a density functional theory study

Ying Liu, Long Lin, Junyu Lei, Shangtao Chen,\* Xiaoliang Yu, Tao Jiang, and Bing Yan\*

*Chem. Lett.* 2026, 55, No. 3, upag019 doi:10.1093/chemle/upag019

**Keywords:** 3D cancer–stromal tissue | collagen microfiber (CMF) | monocyte differentiation

### Evaluation of cancer cell membrane-disruption property of poly(vinyl alcohol)–ursodeoxycholic acid using 3D cancer–stromal models with macrophages

Kazuki Moroishi, Tova Hermodsson, Lennart Greiff, Malin Lindstedt, and Michiya Matsusaki\*

*Chem. Lett.* 2026, 55, No. 3, upag029 doi:10.1093/chemle/upag029

**Keywords:** cross-linking | erythrocyte band 3 | hydrostatic pressure  
Hydrostatic pressure of 100 MPa facilitates the cross-linking between lysine-539 and lysine-851 by anion transport inhibitor in band 3

Takeo Yamaguchi,\* Chinami Uchimura, Akiko Sonoda, and Mayumi Obo

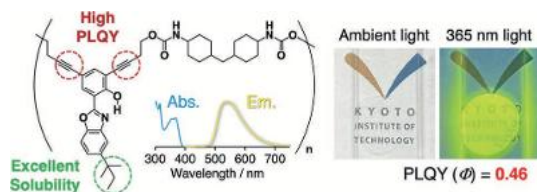
*Chem. Lett.* 2026, 55, No. 3, upag026 doi:10.1093/chemle/upag026

**Editor's Choice** **Open Access**

**Keywords:** colorless | transparent | ESIPT | polyurethane  
An amorphous polyurethane exhibiting colorless transparency and efficient yellow emission

Tsuneaki Sakurai,\* Tsukasa Kawamura, and Masaki Shimizu

*Chem. Lett.* 2026, 55, No. 3, upag031 doi:10.1093/chemle/upag031



**Open Access**

**Keywords:** graphene | perovskite solar cell | tandem solar cell  
Face-to-face all-perovskite tandem solar cells using organic recombination layers

Kei Ito, Keishi Tada, Fumiyasu Awai, Ryousuke Ishikawa, Satoshi Uchida,\* and Hiroshi Segawa\*

*Chem. Lett.* 2026, 55, No. 3, upag030 doi:10.1093/chemle/upag030

**Keywords:** chiral molecular glass | chiral photomechanical behavior | photochromic molecular glass

### Chiral photomechanical behavior of the hybrid fibers of photochromic and chiral molecular glasses

Daiki Arata, Yen-Fu Teoh, and Hideyuki Nakano\*

*Chem. Lett.* 2026, 55, No. 3, upag028 doi:10.1093/chemle/upag028

**Keywords:** Au catalyst | DFT | propylene epoxidation  
Theoretical study on propylene epoxidation over ZrO<sub>2</sub>-supported Au catalyst: understanding support dependency of catalytic activity based on stability of the active species

Yasutaka Hamada,\* Ayaka Sonoura, Tomohisa Yonemori, Yuhki Ishimaru, Takashi Kawakami, Shusuke Yamanaka, Caixia Qi, and Mitsutaka Okumura

*Chem. Lett.* 2026, 55, No. 3, upag027 doi:10.1093/chemle/upag027