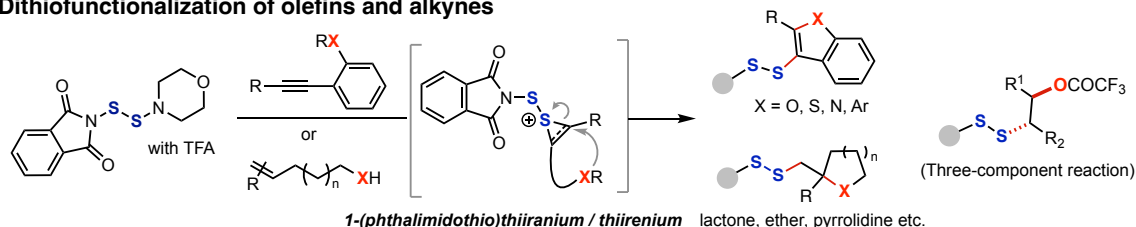


Original Paper (2025. 9/1)

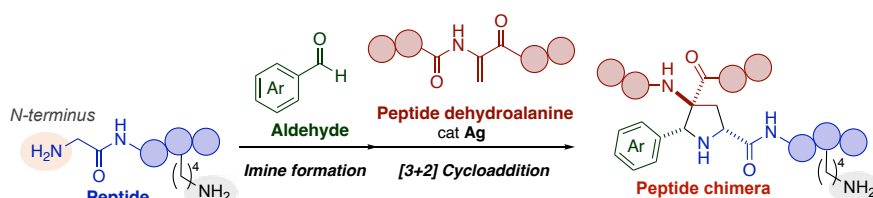
Preprint

- 37 Dithiofunctionalization: A Versatile Approach for Constructing Complex Disulfides from Alkenes and Alkynes, Y. Takami, E. Kwon, **K. Kanemoto**,* ChemRxiv (10.26434/chemrxiv-2025-j73v9).

Dithiofunctionalization of olefins and alkynes



- 36 Precision Synthesis of Chimeric Peptides through Site-Specific Azomethine Ylide-Dehydroalanine Cycloaddition, M. Iwata, N. Yoshikai, **K. Kanemoto**,* ChemRxiv (10.26434/chemrxiv-2024-1917n).

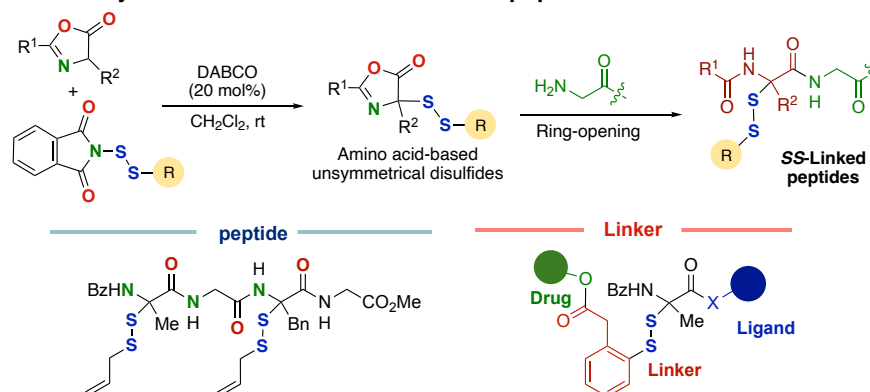


- 35 Formal Cyclopropylation of Imines with Cyclopropanols: Stereocontrolled Access to Conformationally Constrained γ -Amino Alcohols, K. Tsukiji, **K. Kanemoto**, E. Kwon, N. Yoshikai,* *Angew. Chem. Int. Ed.* e202511646 (2025).
- 34 Hexadehydro Diels–Alder/Alkynylidation Cascade: A Highly Regioselective Entry to Polycyclic Aromatics, S. Morohashi, L. Zhou, **K. Kanemoto**,* E. Kwon, N. Yoshikai,* *Org. Lett.* **27**, 4269-4274 (2025).
- 33 Diazomethyl- λ^3 -iodane Meets Aryne: Dipolar Cycloaddition and C-to-N Iodane Shift Leading to Indazolyl- λ^3 -iodanes, S. Otsuki, **K. Kanemoto**,* D. C. Martos, E. Kwon, J. Wencel-Delord, N. Yoshikai, *Chem. Sci.* **16**, 8053-8059 (2025).
- 32 A versatile entry to unnatural, disulfide-linked amino acids and peptides through the disulfuration of azlactones, M. Iwata, Y. Takami, H. Asanuma, K. Hosono, H. Ohno, N. Yoshikai, **K. Kanemoto**,* *Chem. Sci.* **16**, 2777-2784 (2025).

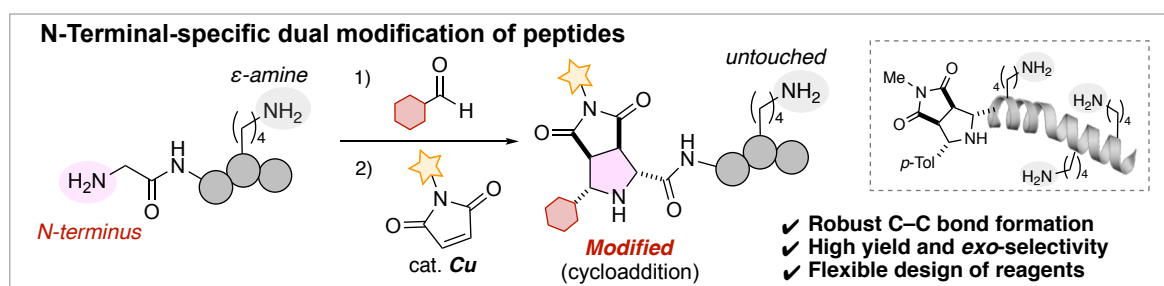
プレスリリース : <https://www.tohoku.ac.jp/japanese/2025/01/press20250128-02-amino.html>

日経新聞電子版に掲載 : https://www.nikkei.com/article/DGXZRSP685963_Y5A120C2000000/

Modular synthesis of SS-linked amino acids/peptides



- 31 Stereoselective Hydroxyallylation of Cyclopropenes with Cyclopropanols via NHC Catalysis of Transient Organozinc Species, K. Tsukiji, A. Matsumoto, **K. Kanemoto**,* N. Yoshikai,* *Angew. Chem. Int. Ed.* **63**, e202412456 (2024).
- 30 N-Terminal-Specific Dual Modification of Peptides through Copper-Catalyzed [3+2] Cycloaddition, H. Machida, **K. Kanemoto**,* *Angew. Chem. Int. Ed.* **63**, e202320012, (2024).



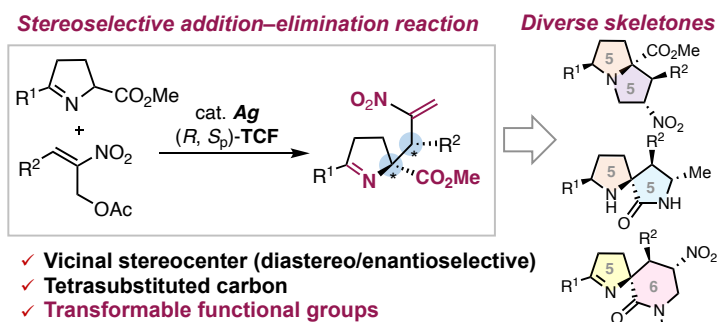
プレスリリース : <https://www.tohoku.ac.jp/japanese/2024/02/press20240213-02-Peptides.html>

日経新聞 : https://www.nikkei.com/article/DGXZRSP668321_T10C24A2000000/

Chem-Station スポットライトリサーチ :

<https://www.chem-station.com/blog/2024/03/peptiden.html>

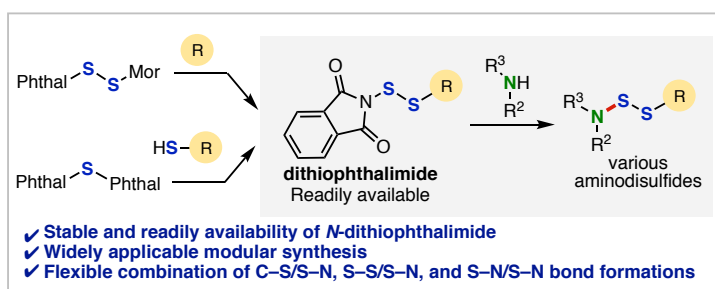
- 29 Carboiodanation of Arynes: Organoiodine(III) Compounds as Nucleophilic Organometalloids, C. Arakawa,* **K. Kanemoto**,* K. Nakai, C. Wang, S. Morohashi, E. Kwon, S. Ito, N. Yoshikai,* *J. Am. Chem. Soc.* **146**, 3910-3919 (2024). *Equal contribution.
- 28 Construction of Diverse Pyrrolidine-Based Skeletons through Ag- Catalyzed Stereoselective Addition-Elimination Reaction of Azomethine Ylides with Nitroallyl Acetates, I. Ohno, **K. Kanemoto***, S. Furuya, Y. Suzuki, S.-i. Fukuzawa,* *Org. Lett.* DOI: 10.1021/acs.orglett.4c00184.



27 Amino- and Alkoxybenziodoxoles: Facile Preparation and Use as Arynophiles, K. Kanemoto, K. Yoshimura, K. Ono, W. Ding, S. Ito, N. Yoshikai* *Chem. Eur J.* (2024).

26 Amination of *N*-(Organodithio)phthalimides for the Modular Synthesis of Aminodisulfides, H. Asanuma, K. Kanemoto*, *Org. Lett.* **26**, 438-443, (2024).

Selected as Front Cover

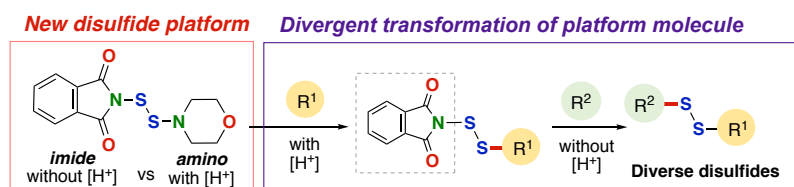


25 Dipolarophile-Steered Formal Stereodivergent Synthesis of 2,5-cis/trans-Pyrrolidines Based on Asymmetric 1,3-Dipolar Cycloaddition of Imino Lactones, S. Furuya, K. Muroi, K. Kanemoto, S.-i. Fukuzawa, *Chem. Eur. J.* e202302609, (2023).

24 Cationic Iridium-Catalyzed Decarboxylation of Aromatic Carboxylic Acids, R. Nonami, Y. Kishino, T. Yamasaki, K. Kanemoto, K. Iwai, N. Nishiwaki, K. Shibatomi, T. Shirai, *Chem. Asian J.* e202300533, (2023).

23 Zinc-Mediated Diastereoselective Annulation of Cyclopropanols with Alkylidenemalononitriles via Enolized Homo enolate, K. Tsukiji, T. Hayakawa, K. Kanemoto, N. Yoshikai*, *Asian J. Org. Chem.* **12**, e202300114, (2023).

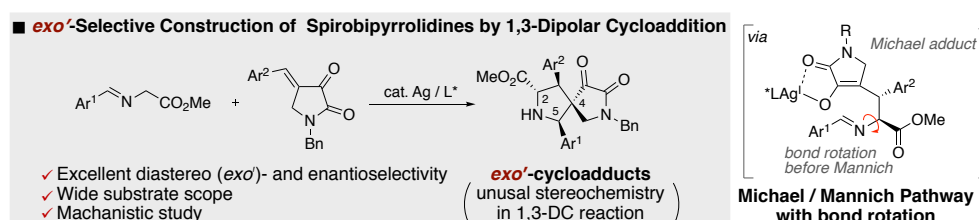
22 N-(Morpholine-4-dithio)phthalimide: A Shelf-Stable, Bilateral Platform Molecule Enabling Access to Diverse Unsymmetrical Disulfides, H. Asanuma, **K. Kanemoto**,* T. Watanabe, S.-i. Fukuzawa, *Angew. Chem., Int. Ed.* **62**, e202219156, (2023). *Angew. Chem.* **135**, e202219156. (2023).



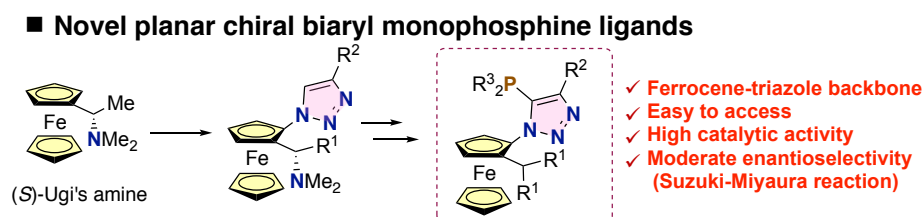
21 Chiral Silver Complex-Catalyzed Asymmetric Conjugate Addition of 1-Pyrroline-5-Carbonitrile to α -Enones, H. Araki, S. Furuya, K. Kanemoto, S.-i. Fukuzawa, *J. org. Chem.* **88**, 924-932, (2023).

20 Diastereoselective Conversion of Cyclopropanols to Cyclopentane-1,3-diols via Aldol
Dimerization of Zinc Homo-enolates, K. Tsukiji, Y. Sekiguchi, **K. Kanemoto**, N. Yoshikai,
Chem. Lett. **51**, 1012-1014, (2022).

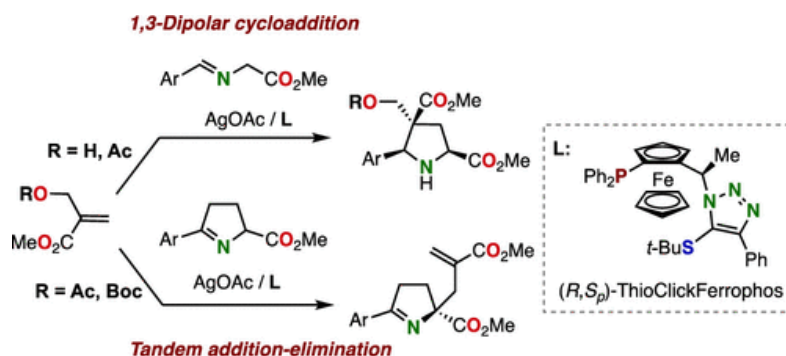
19 *exo'*-Selective Construction of Dispiropyrrolidines by the Silver-catalyzed Asymmetric [3+2] Cycloaddition of Imino Esters with 4-Benzylidene-2,3-dioxypyrrolidines, S. Furuya, **K. Kanemoto**,* S.-i. Fukuzawa,* *Chem. Asian J.* **17**, e202200239, (2022).



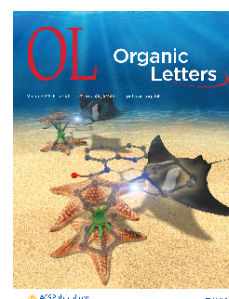
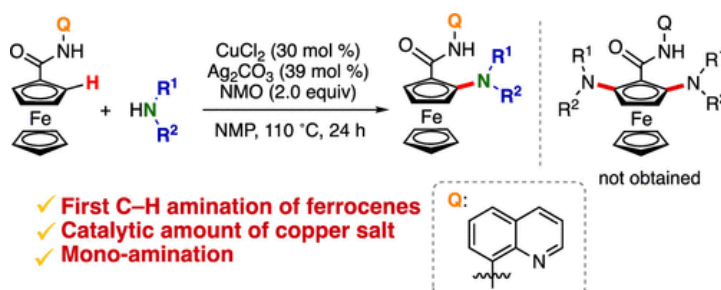
18 Synthesis and Evaluation of Novel Planar-Chiral Monophosphine Ligands Bearing
Ferrocene-Triazole Backbones, S. Sakai, **K. Kanemoto**,* S.-i. Fukuzawa,* *Eur. J.*
Inorg. Chem., **6**, e202100967, (2022).



- 17 Cationic Iridium-Catalyzed Asymmetric Decarbonylative Aryl Addition of Aromatic Aldehydes to Bicyclic Alkenes, R. Nonami, Y. Morimoto, **K. Kanemoto**, Y. Yamamoto, T. Shirai,* *Chem. Eur. J.*, **28**, e202200317, (2022).
【Selected as supplementary cover】 【Selected as hot paper】
- 16 Synthesis and properties of 5,5'-diethynyl indigos and their polymers using Glaser coupling reaction, S. Kenmochi, **K. Kanemoto**, T. Ikeda, S.-i. Fukuzawa, *Fac. Sci. Eng., Chuo Univ.* **27**, 35-46, (2022).
- 15 Trifluoroacetic Acid-Mediated Desulfurilative Sulfonylation of Activated Olefins Using Potassium *p*-Toluenethiosulfonate, T. Watanebe, **K. Kanemoto**,* S.-i. Fukuzawa, *Bull. Fac. Sci. Eng., Chuo Univ.*, **27**, 15-33, (2022).
- 14 Silver/ThioClickFerrophos-Catalyzed 1,3-Dipolar Cycloaddition and Tandem Addition-Elimination Reaction of Morita–Baylis–Hillman Adducts, Y. Suzuki, **K. Kanemoto**,* A. Inoue, K. Imae, S.-i. Fukuzawa,* *J. Org. Chem.*, **86**, 14586-14596, (2021).



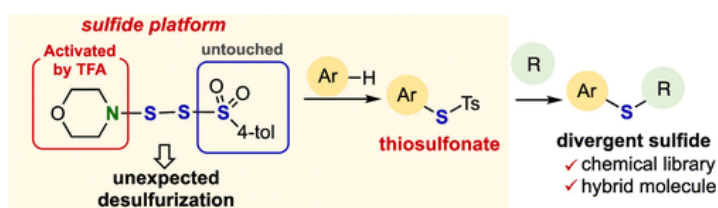
- 13 Copper-Catalyzed Single C–H Amination of 8-Aminoquinoline-Directed Ferrocenes, **K. Kanemoto**,* N. Horikawa, S. Hoshino, Y. Tokoro, S.-i. Fukuzawa,* *Org. Lett.*, **23**, 4966–4970, (2021). **【Selected as supplementary cover】**



- 12 Palladium-Catalyzed Sulfinylation of Aryl- and Alkenylborons with Sulfinate Esters, M. Suzuki, **K. Kanemoto**, Y. Nakamura, T. Hosoya, S. Yoshida,* *Org. Lett.*, **23**, 3793–3797, (2021).
- 11 Acid-Mediated Sulfonylthiolation of Arenes via Selective Activation of *SS*-Morpholino Dithiosulfonate, **K. Kanemoto**,* K. Furuhashi, Y. Morita, T. Komatsu, S.-i. Fukuzawa,* *Org. Lett.*, **23**, 1582–1587, (2021).

【 Highlighted in Organic Chemistry Portal (<https://www.organic-chemistry.org/abstracts/lit7/808.shtml>)】

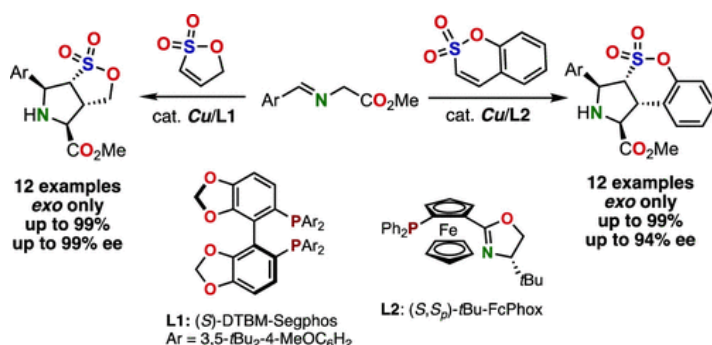
【Selected as supplementary cover】



- 10 Copper-Catalyzed Asymmetric 1,3-Dipolar Cycloaddition of Imino Esters to Unsaturated
Sultones, S. Furuya, K. Kanemoto,* S.-i. Fukuzawa,* *J. Org. Chem.*, **85**, 8142–8148,
(2020).

【Highlighted in Synfacts (H. Yamamoto, T. Hattori, *Synfacts*, **16**, 1118, (2020).)】

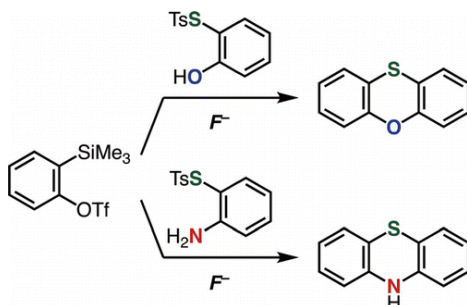
【Selected as supplementary cover】



- 9 Cationic Iridium/Chiral Bisphosphine-Catalyzed Enantioselective Hydroacylation of
Ketones, T. Shirai,* T. Iwasaki, K. Kanemoto, Y. Yamamoto, *Chem. Asian J.* **15**, 1858-
1862, (2020).
- 8 Functionalization of a Single C–F Bond of Trifluoromethylarenes Assisted by an *ortho*-
Silyl Group Using a Trityl-Based All-in-One Reagent with Ytterbium Triflate Catalyst, Y.

Kim, **K. Kanemoto**, K. Shimomori, T. Hosoya, S. Yoshida,* *Chem. Eur. J.* **26**, 6136-6140, (2020).

- 7 Synthesis of Phenoxathiins and Phenothiazines by Aryne Reactions with Thiosulfonates, **K. Kanemoto**, Y. Sakata, T. Hosoya, S. Yoshida,* *Chem. Lett.*, **49**, 593-596, (2020).



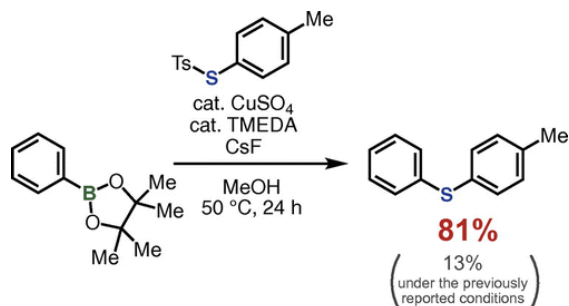
- 6 Synthesis of Alkynyl Sulfides by Copper-Catalyzed Thiolation of Terminal Alkynes Using Thiosulfonates, **K. Kanemoto**, S. Yoshida,* T. Hosoya,* *Org. Lett.*, **21**, 3172-3177, (2019).
 【Press Release (https://www.tmd.ac.jp/archive-tmdu/kouhou/20190423_1.pdf)】
 【Most downloaded article of *Org. Lett.* in April 2019】
 【 Highlighted in Organic Chemistry Portal (<https://www.organic-chemistry.org/abstracts/lit6/827.shtm>)】



- 5 Copper-Catalyzed Regio- and Diastereoselective 1,3-Dipolar Cycloaddition Reactions of Glycine Imino Esters with 1-Propene-1,3-sultone, S. Furuya, S. Kato, **K. Kanemoto**, S.-i. Fukuzawa,* *Eur. J. Org. Chem.* 4561-4565, (2019).
- 4 Facile Synthesis of Diverse α -Iodoaryl Triflates from α -Silylaryl Triflates by Aluminum-mediated Desilyliodination, S. Yoshida,* Y. Hazama, **K. Kanemoto**, Y. Nakamura, T. Hosoya,* *Chem. Lett.*, **48**, 742-745, (2019).
- 3 Modular Synthesis of Unsymmetrical Doubly-ring-fused Benzene Derivatives Based on a Sequential Ring Construction Strategy Using Oxadiazinones as a Platform Molecule,

T. Meguro, S. Chen, **K. Kanemoto**, S. Yoshida,* T. Hosoya,* *Chem. Lett.*, **48**, 582-585, (2019).

- 2 Modified Conditions for Copper-catalyzed *ipso*-Thiolation of Arylboronic Acid Esters with Thiosulfonates, **K. Kanemoto**, S. Yoshida,* T. Hosoya,* *Chem. Lett.*, **47**, 85-88, (2018).



- 1 Rhodium-catalyzed odorless synthesis of diaryl sulfides from borylarenes and *S*-aryl thiosulfonates, **K. Kanemoto**, Y. Sugimura, S. Shimizu, S. Yoshida,* T. Hosoya,* *Chem. Commun.*, **53**, 10640-10643, (2017). **[Selected as inside back cover]**

