

## Publications (as of November 11, 2024)

### Original Papers

- (378) “Aryl Silyl Ethers Enable Preferential Ar–O bond Cleavage in Reductive Generation of Aryllithium Species” Daiki Asai, Ziwei Zhang, Fumiya Takahashi, Hayate Saito, Jun Shimokawa, and Hideki Yorimitsu, *JACS Au* **2024**, *4*, 3118–3124 (DOI: 10.1021/jacsau.4c00448).
- (377) “Sodium-mediated Reductive *anti*-Dimagnesiation of Diarylacetylenes with Magnesium Bromide” Haruka Yamaguchi, Fumiya Takahashi, Takashi Kurogi, and Hideki Yorimitsu, *Synthesis* **2024**, *56*, 3307–3313 (DOI: 10.1055/a-2326-6416).
- (376) “Synthesis of unsymmetrical dialkoxydiarylsilanes and diarylsilane diols from tetraalkoxysilane having a dioxasilane unit” Kenshiro Hitoshio, Hiroki Maeda, Kento Teranishi, Jun Shimokawa, and Hideki Yorimitsu, *Chem. Commun.* **2024**, *60*, 7339–7342 (DOI: 10.1039/D4CC02051K).
- (375) “Arylation of benzazoles at the 4 positions by activation of their 2-methylsulfinyl groups” Ryota Wakabayashi, Shuo Wang, Takashi Kurogi, and Hideki Yorimitsu, *Chem. Commun.* **2024**, *60*, 6166–6169 (DOI: 10.1039/D4CC01918K).
- (374) “Reductive *anti*-Dizincation of Arylacetylenes” Haruka Yamaguchi, Fumiya Takahashi, Takashi Kurogi, and Hideki Yorimitsu, *Chem. Asian J.* **2024**, *19*, e202400384 (DOI: 10.1002/asia.202400384).
- (373) “[1,2]-Retro-Brook Rearrangement Induced by Electrochemical Reduction of Silyl Enolates” Ban Kinoshita, Saki Maejima, Yuta Niki, Koichi Mitsudo, Seiji Suga, and Hideki Yorimitsu, *Bull. Chem. Soc. Jpn.* **2024**, *97*, uoae038 (DOI: 10.1093/bulcsj/uoae038).
- (372) “Sodium-Mediated Reductive C–C Bond Cleavage Assisted by Boryl Groups” Mizuki Fukazawa, Fumiya Takahashi, Takashi Kurogi, and Hideki Yorimitsu, *Chem. Asian J.* **2024**, *19*, e202400100 (DOI: 10.1002/asia.202400100).
- (371) “Regioselectivity in the Sulfonium-mediated Arylation Reactions of 2-Substituted Phenols with Benzothienyl Sulfoxide” Ryota Wakabayashi, Mizuki Fukazawa, Takashi Kurogi, and Hideki Yorimitsu, *Bull. Chem. Soc. Jpn.* **2024**, *97*, uoae002 (DOI: 10.1093/bulcsj/uoae002).
- (370) “Reductive stereo- and regiocontrolled boryllithiation and borylsodiation of arylacetylenes using flow microreactors” Yiyuan Jiang, Takashi Kurogi, and Hideki

- Yorimitsu, *Nat. Synth.* **2024**, *3*, 192–201 (DOI: 10.1038/s44160-023-00439-8); Research Square (DOI: 10.21203/rs.3.rs-2687146/v1).
- (369) “Regioselective Anti-Silyllithiation of Propargylic Amines” Tomohiko Sato, Somnath Narayan Karad, Jun Shimokawa, and Hideki Yorimitsu, *Synlett* **2024**, *35*, 419–422 (DOI: 10.1055/a-2047-8456).
- (368) “Regioselective *anti*-Silyllithiation of Propargylic Alcohols” Somnath N. Karad, Hayate Saito, Jun Shimokawa, and Hideki Yorimitsu, *J. Org. Chem.* **2024**, *89*, 3677–3683 (DOI: 10.1021/acs.joc.2c01795); *ChemRxiv* (DOI: 10.26434/chemrxiv-2022-7frsl).
- (367) “Aromatic metamorphosis of an indole into 2-quinolone, dihydrobenzazasiline, and dihydrobenzazagermine” Kazuki Nishihara, Takashi Kurogi, and Hideki Yorimitsu, *Arkivoc* **2023**, (ii) 202312017 (DOI: 10.24820/ark.5550190.p012.017).
- (366) “Multiply *exo*-Methylated Corannulenes” Kazuhira Miwa, Shinobu Aoyagi, Toru Amaya, Takahiro Sasamori, Shogo Morisako, Takashi Kurogi, and Hideki Yorimitsu, *Chem. Eur. J.* **2023**, *29*, e202301557 (DOI: 10.1002/chem.202301557).
- (365) “Unique solvent effect of water in radical cyclization reaction” Sara Suzuki, Soni Aman Govind, Kosuke Imamura, Hideki Yorimitsu, Hiroshi Shinokubo, Masahiro Higashi, and Hirofumi Sato, *Chem. Phys. Lett.* **2023**, *826*, 140641 (DOI: 10.1016/j.cplett.2023.140641).
- (364) “Preparation of Vinylic Lithium Reagents from Silyl Enolates of Alkyl Aryl Ketones Using Lithium Arenide” Ziwei Zhang, Fumiya Takahashi, Takashi Kurogi, and Hideki Yorimitsu, *Asian J. Org. Chem.* **2023**, *12*, e202300242 (DOI: 10.1002/ajoc.202300242).
- (363) “Selective Synthesis of Tetraarylethylenes Enabled by Reductive *anti*-1,2-Dimetallation of Alkynes” Fumiya Takahashi and Hideki Yorimitsu, *Chem. Eur. J.* **2023**, *29*, e202203988 (DOI: 10.1002/chem.202203988).
- (362) “Carboxylic Acid Salts as Dual-Function Reagents for Carboxylation and Carbon Isotope Labeling” Shuo Wang, Igor Larrosa, Hideki Yorimitsu, and Gregory J. P. Perry, *Angew. Chem. Int. Ed.* **2023**, *62*, e202218371 (DOI: 10.1002/anie.202218371); *Angew. Chem.* **2023**, *135*, e202218371 (DOI: 10.1002/ange.202218371).
- (361) “Synthesis of a Dibenzo-1,6,2,5-dioxadisilocene and Its Unexpected Reductive Coupling with Phenanthrene” Narumi Itoh, Koh Sugamata, Shogo Morisako,

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- (360) “Borylation of Alkenyl Carbamates by Means of Sodium Metal” Shunsuke Koyama, Fumiya Takahashi, Hayate Saito, and Hideki Yorimitsu, *Synthesis* **2023**, *55*, 1744–1751 (DOI: 10.1055/a-1970-4584).
- (359) “Synthesis of *trans*-1,2-dimetalloalkenes through reductive *anti*-dimagnesiumation and dialumination of alkynes” Fumiya Takahashi, Takashi Kurogi, and Hideki Yorimitsu, *Nat. Synth.* **2023**, *2*, 162–171 (DOI: 10.1038/s44160-022-00189-z), *ChemRxiv* (DOI: 10.26434/chemrxiv-2022-h72gz).
- (358) “Diphenylsilylsilanolates Enable the Transfer of a Wide Range of Silyl Groups” Hiroki Yamagishi, Fuyuki Harata, Jun Shimokawa, and Hideki Yorimitsu, *Org. Lett.* **2023**, *25*, 11–15 (DOI: 10.1021/acs.orglett.2c03558).
- (357) “Taming Highly Unstable Radical Anions and 1,4-Organodilithiums by Flow Microreactors: Controlled Reductive Dimerization of Styrenes” Yiyuan Jiang and Hideki Yorimitsu, *JACS Au* **2022**, *2*, 2514–2521 (DOI: 10.1021/jacsau.2c00375); *ChemRxiv* (DOI: 10.26434/chemrxiv-2022-6h317).
- (356) “Zincation of Styrylsulfonium Salts” Kodai Yamada, Mika Kintzel, Gregory J. P. Perry, Hayate Saito, and Hideki Yorimitsu, *Org. Lett.* **2022**, *24*, 7446–7449 (DOI: 10.1021/acs.orglett.2c03013).
- (355) “Synthesis of meso-Free Decaphyrin(1.1.1.1.1.1.1.1.1) by a Hydrodebromination Protocol; Aromaticity and Solvent-Polarity Dependent Conformational Change” Akito Nakai, Hayate Saito, Hideki Yorimitsu, Takayuki Tanaka, and Atsuhiko Osuka, *Chem. Eur. J.* **2022**, *28*, e202202682 (DOI: 10.1002/chem.202202682).
- (354) “Improvement of Cycle Life in Organic Lithium-Ion Batteries by In-Cell Polymerization of Tetrathiafulvalene-Based Electrode Materials” Aya Yoshimura, Keisuke Hemmi, Hayato Moriwaki, Ryo Sakakibara, Hitoshi Kimura, Naoya Kinoshita, Rie Suizu, Takashi Shirahata, Masaru Yao, Hideki Yorimitsu, Kunio Awaga, and Yohji Misaki, *ACS Appl. Mater. Interfaces* **2022**, *14*, 35978–35984 (DOI: 10.1021/acsami.2c09302).
- (353) “Late-stage sulfonic acid/sulfonate formation from sulfonamides via sulfonyl pyrroles” Tomoya Ozaki, Hideki Yorimitsu, and Gregory J. P. Perry, *Tetrahedron* **2022**, *117-118*, 132830 (DOI: 10.1016/j.tet.2022.132830).
- (352) “Protonation-Induced Antiaromaticity in Octaaza[8]circulenes: Cyclooctatetraene Scaffolds Constrained with Four Amidine Moieties” Shuhei Akahori, Atsushi Kaga,

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- (351) “Sodium silylsilanolate as a precursor of silylcopper species” Hiroki Yamagishi, Kenshiro Hitoshio, Jun Shimokawa, and Hideki Yorimitsu, *Chem. Sci.* **2022**, *13*, 4334–4340 (DOI: 10.1039/d2sc00227b).
- (350) “Reductive Ring-opening of Arylcyclopropanecarboxamides Accompanied by Borylation and Enolate Formation” Shuo Wang, Atsushi Kaga, Takashi Kurogi, and Hideki Yorimitsu, *Org. Lett.* **2022**, *24*, 1105–1109 (DOI: 10.1021/acs.orglett.2c00084).
- (349) “AgF-Mediated Electrophilic Amination of Alkoxyarylsilanes with Azodicarboxylates” Qian Zhang, Shijun Deng, Dong Li, Jun Shimokawa, and Hideki Yorimitsu, *Chem. Asian J.* **2022**, *17*, e202101345 (DOI: 10.1002/asia.202101345).
- (348) “Facile Multiple Alkylations of C<sub>60</sub> Fullerene” Kazuhira Miwa, Shinobu Aoyagi, Takahiro Sasamori, Shogo Morisako, Hiroshi Ueno, Yutaka Matsuo, and Hideki Yorimitsu, *Molecules* **2022**, *27*, 450 (DOI: 10.3390/molecules27020450).
- (347) “Five-fold Symmetric Pentaindolo- and Pentakis(benzoindolo)Corannulenes: Unique Structural Dynamics Derived from the Combination of Helical and Bowl Inversions” Koki Kise, Shota Ooi, Hayate Saito, Hideki Yorimitsu, Atsuhiko Osuka, and Takayuki Tanaka, *Angew. Chem. Int. Ed.* **2022**, *61*, e202112589 (DOI: 10.1002/anie.202112589); *Angew. Chem.* **2022**, *134*, e202112589 (DOI: 10.1002/ange.202112589).
- (346) “Construction of 5*H*-Dibenzo[*c,e*]azepine Framework from Dibenzothiophene Dioxides and *N*-benzylimines via S<sub>N</sub>Ar Reactions” Tomoki Furukawa, Tomoyuki Yanagi, Atsushi Kaga, Hayate Saito, and Hideki Yorimitsu, *Helv. Chim. Acta* **2021**, *104*, e202100195 (DOI: 10.1002/hlca.202100195).
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- (344) “Primary Sulfonamide Functionalization via Sulfonyl Pyrroles: Seeing the N–Ts Bond in a Different Light” Tomoya Ozaki, Hideki Yorimitsu, and Gregory J. P. Perry, *Chem. Eur. J.* **2021**, *27*, 15387–15391 (DOI: 10.1002/chem.202102748).

- (343) “Mechanistic Investigation of a Synthetic Route to Biaryls by the Sigmatropic Rearrangement of Arylsulfonium Species” Tomoyuki Yanagi and Hideki Yorimitsu, *Chem. Eur. J.* **2021**, *27*, 13450–13456 (DOI: 10.1002/chem.202101735).
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- (341) “Design, Synthesis, and Implementation of Sodium Silylsilanolates as Silyl Transfer Reagent” Hiroki Yamagishi, Hayate Saito, Jun Shimokawa, and Hideki Yorimitsu, *ACS Catal.* **2021**, *11*, 10095–10103 (DOI: 10.1021/acscatal.1c02733); *ChemRxiv* (DOI: 10.26434/chemrxiv.14515725.v2).
- (340) “Nickel-Catalyzed Negishi-type Arylation of Trialkylsulfonium Salts” Hiroko Minami, Keisuke Nogi, and Hideki Yorimitsu, *Synlett* **2021**, *32*, 1542–1546 (DOI: 10.1055/s-0040-1707817).
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- (338) “Dioxasilepanyl group as a versatile organometallic unit: studies in stability, reactivity, and utility” Hayate Saito, Jun Shimokawa, and Hideki Yorimitsu, *Chem. Sci.* **2021**, *12*, 9546–9555 (DOI: 10.1039/d1sc02083h).
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- (334) “Asymmetric Systematic Synthesis, Structures, and (Chir)optical Properties of a Series of Dihetero[8]helicenes” Tomoyuki Yanagi, Takayuki Tanaka, and Hideki Yorimitsu, *Chem. Sci.* **2021**, *12*, 2784–2793 (DOI: 10.1039/d1sc00044f).
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- (331) “Synthesis of Peripherally Arylated Tetrathiafulvalenes Extended with an Anthraquinoid Spacer via Pd-Catalyzed C–H Arylation and Construction of a Double-Helical Cobalt-Based Metal–Organic Framework” Aya Yoshimura, Keisuke Henmi, Hitoshi Kimura, Ryo Sakakibara, Rika Ochi, Takashi Shirahata, Hideki Yorimitsu, and Yohji Misaki, *Synthesis* **2021**, *53*, 326–331 (DOI: 10.1055/s-0040-1707177).
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