

研究業績リスト

(1) 学術雑誌

1. Chiral anthranilic pyrrolidine as custom-made amine catalyst for enantioselective Michael reaction of nitroalkenes with carbonyl compounds
Yukari Oka, Seiji Tsuzuki, Katsuhiko Moriyama
Chemical Communications, **2021**, 57, 11457-11460.
2. Aniline-Type Hypervalent Iodine(III) for Intramolecular Cyclization via C–H Bond Abstraction of Hydrocarbons Containing N- and O-Nucleophiles
Yuna Nishiguchi, Katsuhiko Moriyama
Advanced Synthesis & Catalysis, **2021**, 363, 3354-3358.
3. Preparation of 6-substituted phenanthridines from *o*-biaryl ketoximes via the Beckmann rearrangement
Kohei Nakamura, Eiji Kobayashi, Katsuhiko Moriyama, Hideo Togo
Tetrahedron, **2021**, 91, 132244.
4. Recent Advances in Retained and Dehydrogenative Dual Functionalization Chemistry (YourJOC Talents)
Katsuhiko Moriyama
European Journal of Organic Chemistry, **2021**, 2021, 2077-2090.
5. Nitroxyl Catalysts for Six-Membered Ring Bromolactonization and Intermolecular Bromoesterification of Alkenes with Carboxylic Acids
Katsuhiko Moriyama, Masako Kuramochi, Seiji Tsuzuki, Kozo Fujii, Takeshi Morita
Organic Letters, **2021**, 23, 268-273.
6. Formal Ring Contraction of Cyclic *N*-Sulfonamides via C–N Bond Cleavage and α -Amination by Oxidation of Halides
Yuna Nishiguchi, Akihiko Tomizuka, Katsuhiko Moriyama
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7. C–H Sulfonylation via 1,3-Rearrangement of Sulfonyl Group in *N*-Protected 3-Bis-sulfonimidoindole Derivatives Using Fluorine Reagent
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10. Bromoetherification of Alkenyl Alcohols by Aerobic Oxidation of Bromide: Asymmetric Synthesis of 2-Bromomethyl 5-Substituted Tetrahydrofurans
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11. Copper-Catalyzed Indole-Selective C–N Coupling Reaction of Indolyl(2-alkoxy-phenyl)iodonium Imides: Effect of Substituent on Iodoarene as Dummy Ligand
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13. Preparation of Phenanthridines from *o*-Cyanobiaryls via Addition of Organic Lithiums to Nitriles and Imino Radical Cyclization with Iodine
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15. One-pot preparation of 4-aryl-3-bromocoumarins from 4-aryl-2-propynoic acids with diaryliodonium salts, TBAB, and Na₂S₂O₈
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25. Direct Transformation of Ethylarenes into Primary Aromatic Amides with *N*-Bromosuccinimide and I₂-Aqueous NH₃

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(2) 著書、総説等

1. ニトロキシラジカル触媒の新展開

森山克彦

化学と工業 2017年1月号、p.29

2. ヨウ素を用いる複素環化合物合成

森山克彦

ヨウ素の化学と最新応用技術 (Up-to-date Chemistry & Technological Application for Iodine)、シーエムシー出版、p.114-124

3. 遷移金属を使わなくていいの？～超原子価ヨウ素化合物の新展開～

森山克彦

化学 12月号、化学同人、p.63-p.64

(3) 特許

1. 光学活性 2-置換-5-ブロモメチルテトラヒドロフラン誘導体及びその製造方法

発明者：森山克彦、富塚亮彦、出願人：千葉大学、特願：2019-025092

2. 光学活性ピロリジン触媒及びこれを用いた方法

発明者：森山克彦、東郷秀雄、杉上徹、出願人：千葉大学、特願：2015-169902

3. 3-[(スルホンアミジル)(アリール)- λ^3 -ヨードニル]-1H-インドール化合物

発明者：森山克彦、東郷秀雄、石田一馬、出願人：千葉大学、特願：2013-165636

4. アルカリ金属ハロゲン化物を用いたベンジルアミン類及びベンジルエーテル類の酸化的脱ベンジル化反応

発明者：森山克彦、東郷秀雄、田原寛之、出願人：マナック株式会社、特願：2013-161110

(4) 受賞歴

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平成 19 年 第 92 回 有機合成シンポジウム ポスター賞
平成 20 年 第 39 回 中部化学関係協会支部連合秋季大会 優秀賞
平成 23 年 2010 年度 有機合成化学協会研究企画賞 エーザイ研究企画賞
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平成 25 年 2013 年度 内藤記念科学振興財団研究助成
平成 28 年 2016 年度 ヨウ素学会研究助成
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平成 30 年 2018 年度 住友財団基礎科学研究助成
令和 3 年 第 38 回 松籟科学技術振興財団研究助成
令和 3 年 令和 3 年度 高橋産業経済財団研究助成

(5) 招待講演

平成 22 年 9 月 25 日 若手研究者のためのセミナー（2010）
「キラルピナフチル骨格を基盤とする酸塩基複合型不斉触媒の創製」
千葉大学西千葉キャンパス自然科学研究棟 1F

平成 27 年 12 月 11 日 第 9 回化学系若手研究者講演会
「ハロゲン化合物の酸化を基盤とする環境調和型分子変換法」
千葉大学亥鼻キャンパス医薬系総合研究棟 II

平成 27 年 12 月 12 日 有機合成化学協会東海支部 総合講演会
「ハロゲン化合物を利用した酸化的二重官能基化反応の開発」
名古屋大学ベンチャービジネスラボラトリー VBL ホール 3F

平成 29 年 9 月 13 日 The 8th International Meeting on Halogen Chemistry, Dual Functionalization of Indoles via Amino-halogenation Using N-I Bonding Hypervalent Iodine Compounds, Inuyama, Aichi, Japan.

平成 30 年 3 月 7 日 International Congress on Pure & Applied Chemistry (ICPAC) 2018, Amino-halogenation of Indoles as Dual Functionalization Using N-I Bonding Hypervalent Iodine Compounds, Siem Reap, Cambodia.