

研究業績リスト

(1) 学術雑誌

1. Preparation of 5-Aryl-2-Alkyltetrazoles with Aromatic Aldehydes, Alkylhydrazine, Di-*tert*-butyl Azodicarboxylate, and [Bis(trifluoroacetoxy)iodo]benzene
Taro Imai, Ryo Harigae, Katsuhiko Moriyama, Hideo Togo
The Journal of Organic Chemistry, **2016**, *81*, 3975-3980.
2. Direct Preparation of 3-iodochromenes from 3-Aryl- and 3-Alkyl-2-propyn-1-ols with Diaryliodonium Salts and NIS
Teppeï Sasaki, Kotaro Miyagi, Katsuhiko Moriyama, Hideo Togo
Organic Letters, **2016**, *18*, 944-947.
3. Direct Transformation of Ethylarenes into Primary Aromatic Amides with *N*-Bromosuccinimide and I₂-Aqueous NH₃
Shohei Shimokawa, Yuhsuke Kawagoe, Katsuhiko Moriyama, Hideo Togo
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4. One-Pot Transformation of Aliphatic Carboxylic Acids into *N*-Alkylsuccinimides with NIS and NCS/NaI
Yuhta Nakai, Katsuhiko Moriyama, Hideo Togo
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5. Transformation of *N,N*-diisopropylarylmethylamines into *N*-isopropylarylmethylamines with molecular iodine
Masatoshi Ezawa, Katsuhiko Moriyama, Hideo Togo
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6. Oxidative Oxygen-Nucleophilic Bromo-Cyclization of Alkenyl Carbonyl Compounds Without Organic Wastes Using Alkali Metal Reagents in Green Solvent
Katsuhiko Moriyama, Chihiro Nishinohara, Toru Sugiue, Hideo Togo
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8. Introduction of Ether Groups onto Electron-Deficient Nitrogen-Containing Heteroaromatics Using Radical Chemistry under Transition-Metal-Free Conditions
Naoki Okugawa, Katsuhiko Moriyama, Hideo Togo

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9. One-pot preparation of 2,5-disubstituted and 2,4,5-trisubstituted oxazoles from aromatic ketones with molecular iodine, oxone, and trifluoromethanesulfonic acid in nitriles
Sho Imai, Hiroki Kikui, Katsuhiko Moriyama, Hideo Togo
Tetrahedron, **2015**, *71*, 5267-5274.
10. 2,6-Bis(amido)benzoic Acid with Internal Hydrogen Bond as Brønsted Acid Catalyst for Friedel–Crafts Reaction of Indoles
Katsuhiko Moriyama, Toru Sugiue, Yuki Saito, Shoichi Katsuta, Hideo Togo
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11. A One-Pot, Transition-Metal-Free Procedure for C–O, C–S, and C–N Bond Formation at the Benzylic Position of Methylarenes
Hiroyuki Shimojo, Katsuhiko Moriyama, Hideo Togo
Synthesis, **2015**, *47*, 1280-1290.
12. Facile One-Pot Transformation of Arenes into Aromatic Nitriles under Metal-Cyanide-Free Conditions
Toshiyuki Tamura, Katsuhiko Moriyama, Hideo Togo
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13. Regioselective C_{sp2}–H dual functionalization of indoles using hypervalent iodine(III): bromo-amination *via* 1,3-migration of imides on indolyl(phenyl)iodonium imides
Katsuhiko Moriyama, Kazuma Ishida, Hideo Togo
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14. Facile One-Pot Transformation of Phenols into *o*-Cyanophenols
Yuhta Nakai, Katsuhiko Moriyama, Hideo Togo
European Journal of Organic Chemistry, **2014**, 6077-6083.
15. One-Pot Preparation of 2-Arylbenzofurans from Oximes with Diaryliodonium Triflate
Kotaro Miyagi, Katsuhiko Moriyama, Hideo Togo
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16. Oxidative Debenzylation of *N*-Benzyl Amides and *O*-Benzyl Ethers Using Alkali Metal Bromide
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19. One-Pot Transformation of Methylarenes into Aromatic Aldehydes under Metal-Free Conditions
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Kotaro Miyagi, Katsuhiko Moriyama, Hideo Togo
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Masataka Inuma, Katsuhiko Moriyama, Hideo Togo
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27. Facile preparation of amides from carboxylic acids and amines with ion-supported Ph₃P
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Masataka Inuma, Katsuhiko Moriyama, Hideo Togo
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Genki Ishii, Ryo Harigae, Katsuhiko Moriyama, Hideo Togo
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Yohji Kakinuma, Katsuhiko Moriyama, Hideo Togo
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Katsuhiko Moriyama, Yuta Izumisawa, Hideo Togo
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33. Simple and Practical Method for Preparation of [(Diacetoxy)iodo]arenes with Iodoarenes and *m*-Chloroperoxybenzoic Acid
Masataka Inuma, Katsuhiko Moriyama, Hideo Togo
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34. Effect of Catalytic Alkali Metal Bromide on Hofmann-type Rearrangement of Imides

Katsuhiko Moriyama, Kazuma Ishida, Hideo Togo

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Daisuke Tsuchiya, Masayuki Tabata, Katsuhiko Moriyama, Hideo Togo

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Souya Dohi, Katsuhiko Moriyama, Hideo Togo

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Sousuke Ushijima, Katsuhiko Moriyama, Hideo Togo

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42. Aza-Morita-Baylis-Hillman reaction with ion-supported Ph₃P

Yumi Imura, Naoya Shimoyuh, Katsuhiko Moriyama, Hideo Togo

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(2) 著書、総説等

1. 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

2. 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

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(3) 特許

1. 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

2. 3-[(スルホンアミジル)(アリアル)- 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

3. 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

平成 18 年 第 23 回 有機合成セミナー ポスター賞
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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
平成 24 年 2012 年度 ヨウ素学会研究助成
平成 24 年 平成 24 年度 AGSST 研究支援事業若手研究支援プログラム助成
平成 25 年 2013 年度 なのはなコンペ受賞
平成 25 年 2013 年度 内藤記念科学振興財団研究助成

(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