

Publication List (Jun Kikuchi)

1. “Chiral Brønsted Acid-Catalyzed Formal α -Vinylolation of Ketones for the Enantioselective Construction of Quaternary Carbon Center”
Stavisha Kayal, Jun Kikuchi, Masahiro Shimizu, Masahiro Terada, *ACS Catal.* **2019**, *9*, 6846–6850.
2. “Enantioselective Addition Reaction of Azlactones with Styrene Derivatives Catalyzed by Strong Chiral Brønsted Acids”
Jun Kikuchi, Masahiro Terada, *Angew. Chem. Int. Ed.* **2019**, *58*, 8458–8462.
3. “Bis-phosphoric Acid Derived from BINOL Dimer as a Chiral Brønsted Acid Catalyst for Enantioselective Transformations”
Masahiro Terada, Yogesh Gupta, Jun Kikuchi, *Chem. Lett.* **2019**, *48*, 260–263.
4. “F₁₀BINOL-derived Chiral Phosphoric Acid-Catalyzed Enantioselective Carbonyl-Ene Reaction: Theoretical Elucidation of Stereochemical Outcomes”
Jun Kikuchi, Hiromu Aramaki, Hiroshi Okamoto, Masahiro Terada, *Chem. Sci.* **2019**, *10*, 1426–1433.
5. “Chiral Brønsted Acid-Catalyzed Intramolecular S_N2' Reaction for Enantioselective Construction of Quaternary Stereogenic Center”
Masahiro Shimizu, Jun Kikuchi, Azusa kondoh, Masahiro Terada, *Chem. Sci.* **2018**, *9*, 5747–5757.
6. “Chiral Phosphoric Acid-Catalyzed Enantioselective Ring Expansion Reaction of 1,3-Dithiane Derivatives: Case Study of the Nature of Ion-Pairing Interaction”
Feng Li, Toshinobu Korenaga, Taishi Nakanishi, Jun Kikuchi, Masahiro Terada, *J. Am. Chem. Soc.* **2018**, *140*, 2629–2642.
7. “A Fischer Indolization Strategy toward the Total Synthesis of (–)-Goniomitine”
Beau P. Pritchett, Jun Kikuchi, Yoshitaka Numajiri, Brian M. Stoltz, *Heterocycles* **2017**, *2*, 1245–1253.
8. “Enantioselective Pd-Catalyzed Allylic Alkylation Reactions of Dihydropyrido[1,2-a]indolone Substrates: Efficient Syntheses of (–)-Goniomitine, (+)-Aspidospermidine, and (–)-Quebrachamine”
Beau P. Pritchett, Jun Kikuchi, Yoshitaka Numajiri, Brian M. Stoltz, *Angew. Chem. Int. Ed.* **2016**, *55*, 13529–13532.

9. “Chiral Phosphoric Acid-Catalyzed Diastereo- and Enantioselective Mannich-type Reaction between Enamides and Thiazolones”
Jun Kikuchi, Norie Momiyama, Masahiro Terada, *Org.Lett.* **2016**, *18*, 2521–2523.
10. “Perfluorinated Aryls in the Design of Chiral Brønsted Acid Catalysts: Catalysis of Enantioselective [4+2] Cycloadditions and Ene-Reactions of Imines with Alkenes by Chiral Mono-Phosphoric Acids with Perfluoroaryls”
Norie Momiyama, Hiroshi Okamoto, Jun Kikuchi, Toshinobu Korenaga, Masahiro Terada, *ACS Catal.* **2016**, *6*, 1198–1204.

総説など

1. “触媒年鑑 触媒技術の動向と展望 2019：第一編 3-1(c)「基質認識型有機酸・塩基触媒の設計開発」”
近藤梓, 菊池隼, 寺田眞浩, 触媒学会 (2019)
2. “不斉有機分子触媒としてのアルデヒド→アルデヒドのさらなる可能性”
菊池隼, 寺田眞浩, 化学, **2019**, *74*, 66–67.
3. “パラジウム触媒を用いた酸クロリドの調製法”
菊池隼, 有機合成化学協会誌, **2018**, *76*, 730–731.
4. “有機分子触媒の開発と工業利用：第二章「キラルブレンステッド酸触媒を用いた不斉変換反応—最近の展開—」”
菊池隼, 寺田眞浩, シーエムシー出版 (2018)