

Publication List

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Sum of the Times Cited: **11856** h-index: **53** (by Scopus)

Representative publications

1. "2H-Thiazolo[4,5-d][1,2,3]triazole: Synthesis, Functionalization, and Application in Scaffold-Hopping"
Miyazaki, R.; Takada, F.; Kikuchi, T.; Oguro, Y.; Kamata, M.; Yukawa, T.; Kato, K.; Muto, K. *; [Yamaguchi, J.](#) *
Chem. Sci. **2024**. Advanced article.
2. "Versatile Deacylative Cross-coupling of Aromatic Ketones"
Nakahara, H.; Isshiki, R.; Kubo, M.; Iizumi, K.; Muto, K.; [Yamaguchi, J.](#) *
Chem. **2024**, *12*, 2916–2930.
3. "Cine-Substitution of Enolates: Enolate Dance/Coupling of Cycloalkenyl Pivalates by Nickel Catalysis"
Moriya, E.; Muto, K.; [Yamaguchi, J.](#) *
ACS. Catal. **2024**, *14*, 10412–10417.
4. "Divergent Transformations of Aromatic Esters: Decarbonylative Coupling, Ester Dance, Aryl Exchange, and Deoxygenative Coupling"
Kubo, M.; [Yamaguchi, J.](#) *
Acc. Chem. Res. **2024**, *57*, 1747–1760. (Account)
5. "Repurposing carboxylic acids and alcohols/amines to create α -hydroxy/amino ketones"
Ishihara, Y.; [Yamaguchi, J.](#) *
Chem **2023**, *9*, 1630–1632 (Review).
6. "Unified Synthesis of Multiply Arylated Alkanes by Catalytic Deoxygenative Transformation of Diarylketones"
Kurosawa, M. B.; Kato, K.; Muto, K.; [Yamaguchi, J.](#) *
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7. "Catalytic reductive ring opening of epoxides enabled by zirconocene and photoredox catalysis"
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8. "Ring-Opening Fluorination of Bicyclic Azaarenes"
Komatsuda, M.; Suto, A.; Kondo Jr. H.; Takada, H.; Kato, K.; Saito, M.; [Yamaguchi, J.](#) *
Chem. Sci. **2022**, *13*, 665–670.
9. "Convergent Azaspirocyclization of Bromoarenes with NTosylhydrazones by a Palladium Catalyst"
Yanagimoto, A.; Uwabe, Y.; Wu, Q.; Muto, K. *; [Yamaguchi, J.](#) *
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10. "Ni-Catalyzed Aryl Sulfide Synthesis through an Aryl Exchange Reaction"
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11. "Transition-Metal-Catalyzed Denitrative Coupling of Nitroarenes"
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12. "Catalytic Three-component C–C Bond Forming Dearomatization of Bromoarenes with Malonates and Diazo Compounds"
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13. "Ester Dance Reaction on the Aromatic Ring"
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14. " σ -Bond Hydroboration of Cyclopropanes"

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18. “Pd-Catalyzed Dearomative Three-Component Reaction of Bromoarenes with Diazo Compounds and Allylborates”
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19. “Casein kinase 1 family regulates PRR5 and TOC1 in the Arabidopsis circadian clock”
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33. “Aromatic C–H Coupling with Hindered Arylboronic Acids by Pd/Fe Dual Catalysts”

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34. “Isolation, Structure, and Reactivity of an Arylnickel(II) Pivalate Complex in Catalytic C–H/C–O Biaryl Coupling”

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1. “Pd-catalyzed dearomative functionalization of arenes”

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2. “Pd-Catalyzed Dearomative Functionalizations of Benzyl and Aryl Electrophiles”

Kato, H.; Muto, K.; Yamaguchi, J.*

2024, submitted.

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1. “Reversing the Chemoselectivity in Photocatalytic C–F Bond Cleavage Enabled by Zirconocene and Photoredox Catalysis”
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4. “Catalytic Reductive Homocoupling of Benzyl Chlorides Enabled by Zirconocene and Photoredox Catalysis”
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1. “2H-Thiazolo[4,5-d][1,2,3]triazole: Synthesis, Functionalization, and Application in Scaffold-Hopping”
Miyazaki, R.; Takada, F.; Kikuchi, T.; Oguro, Y.; Kamata, M.; Yukawa, T.; Kato, K.; Muto, K.*; [Yamaguchi, J.*](#)
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2. “Versatile Deacylative Cross-coupling of Aromatic Ketones”
Nakahara, H.; Isshiki, R.; Kubo, M.; Iizumi, K.; Muto, K.; [Yamaguchi, J.*](#)
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3. “Deoxygenative Functionalizations of Aromatic Dicarbonyls and Aldehydes”
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[This article was selected as BCSJ award](#).
4. “Cine-Substitution of Enolates: Enolate Dance/Coupling of Cycloalkenyl Pivalates by Nickel Catalysis”
Moriya, E.; Muto, K.; [Yamaguchi, J.*](#)
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5. “Divergent Transformations of Aromatic Esters: Decarbonylative Coupling, Ester Dance, Aryl Exchange, and Deoxygenative Coupling”
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6. “Harnessing Zirconocene (III) for Photoinduced Carbon Radical Generation”
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7. “Deoxygenative Hetero- and Carbofunctionalizations of Diarylketones”
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9. “Palladium-Catalyzed Denitrative Synthesis of Aryl Nitriles from Nitroarenes and Organocyanides”
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10. “Pd-Catalyzed Cyclization/1,4-Difunctionalization of Bromoarenes with Diazo Compounds Leading to

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11. “Regioselective Ring Opening of Oxetanes Enabled by Zirconocene and Photoredox Catalysis”
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12. “A unique small molecule pair controls the plant circadian clock”
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21. “Structure-Function Study of a Novel Inhibitor of Cyclin-Dependent Kinase C in Arabidopsis”
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22. “Synthesis and Properties of Pyridine-Fused Triazolylidene–Palladium: Catalyst for Cross-Coupling Using Chloroarenes and Nitroarenes”
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- Takada, F.; Kasahara, T.; Otake, K.; Maru, T.; Miwa, M.; Muto, K.; Sasaki, M.; Hirozane, Y.; Yoshikawa, M.*; and Yamaguchi, J.*
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29. “Catalytic reductive ring opening of epoxides enabled by zirconocene and photoredox catalysis”
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30. “Ring-Opening Fluorination of Isoxazoles”
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33. “Phosphorylation of RNA Polymerase II by CDKC2 Maintains the Arabidopsis Circadian Clock Period”
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42. "Catalytic Three-component C–C Bond Forming Dearomatization of Bromoarenes with Malonates and Diazo Compounds"
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