

Publication List

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Sum of the Times Cited: **7276** h-index: **43** (by Scopus)

Representative publications

1. "Casein kinase 1 family regulates PRR5 and TOC1 in the Arabidopsis circadian clock"
Uehara, T. N.; Mizutani, Y.; Kuwata, K.; Hirota, T.; Sato, A.; Mizoi, J.; Takao, S.; Matsuo, H.; Suzuki, T.; Ito, S.; Saito, A. N.; Nishiwaki Ohkawa, T.; Yamaguchi-Shinozaki, K.; Yoshimura, T.; Kay, S. A.; Itami, K.; Kinoshita, T.; [Yamaguchi, J.*](#); Nakamichi, N.*
Proc Natl Acad Sci USA **2019**, *116*, 11528-11536.
2. "Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents"
Suzuki, S.; Itami, K.*; [Yamaguchi, J.*](#)
Angew. Chem., Int. Ed. **2017**, *56*, 15010-15013.
3. "Cross-coupling of Aromatic Esters and Amides"
Takise, R.; Muto, K.; [Yamaguchi, J.*](#)
Chem. Soc. Rev. **2017**, *46*, 5864-5888 (Review).
4. "Rh-catalyzed Regiodivergent Hydrosilylation of Acyl Aminocyclopropanes Controlled by Monophosphine Ligands"
Kondo, H.; Itami, K.; [Yamaguchi, J.*](#)
Chem. Sci. **2017**, *8*, 3799-3803.
5. "Decarbonylative Diaryl Ether Synthesis by Pd and Ni Catalysis"
Takise, R.; Isshiki, R.; Muto, K.; Itami, K.*; [Yamaguchi, J.*](#)
J. Am. Chem. Soc. **2017**, *139*, 3340-3343.
6. "C-H Arylation and Alkenylation of Imidazoles by Nickel Catalysis: Solvent-accelerated Imidazole C-H Activation"
Muto, K.; Hatakeyama, T.; [Yamaguchi, J.*](#); Itami, K.*
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8. "C-H Activation Generates Period-Shortening Molecules That Target Cryptochrome in the Mammalian Circadian Clock"
Oshima, T.; Yamanaka, I.; Kumar, A.; [Yamaguchi, J.](#); Nishiwaki Ohkawa, T.; Muto, K.; Kawamura, R.; Hirota, T.; Yagita, K.; Irle, S.; Kay, S. A.; Yoshimura, T.*; Itami, K.*
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9. "Synthesis and Characterization of Hexaarylbenzenes with Five or Six Different Substituents Enabled by Programmed Synthesis"
Suzuki, S.; Segawa, Y.; Itami, K.*; [Yamaguchi, J.*](#)
Nature Chem. **2015**, *7*, 227-233.
10. "Concise Syntheses of Dictyodendrins A and F by a Sequential C-H Functionalization Strategy"
Yamaguchi, A. D.; Chepiga, K. M.; [Yamaguchi, J.*](#); Itami, K.*; Davies, H. M. L.
J. Am. Chem. Soc. **2015**, *137*, 644-647.
11. "Stereodivergent Synthesis of Arylcyclopropylamines by Sequential C-H Borylation and Suzuki-Miyaura Coupling"
Miyamura, S.; Araki, M.; Suzuki, T.; [Yamaguchi, J.*](#); Itami, K.*
Angew. Chem., Int. Ed. **2015**, *54*, 846-851.
12. "Key Mechanistic Features of the Ni-catalyzed C-H/C-O Biaryl Coupling with Azoles and NaphthalenylPivalates"

- Xu, H. Muto, K.; [Yamaguchi, J.](#); Itami, K.*; Musaev, D.G.*
J. Am. Chem. Soc. **2014**, *136*, 14834–14844.
13. “ β -Selective C–H Arylation of Pyrroles: Leading to Concise Syntheses of Lamellarins C and I”
Ueda, K.; Amaike, K.; Maceiczky, R. M.; Itami, K.*; [Yamaguchi, J.](#)*
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 14. “Ni-Catalyzed α -Arylation of Ketones with Phenol Derivatives”
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 15. “Aromatic C–H Coupling with Hindered Arylboronic Acids by Pd/Fe Dual Catalysts”
Yamaguchi, K.; Kondo, H.; [Yamaguchi, J.](#)*; Itami, K.*
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 16. “Isolation, Structure, and Reactivity of an Arylnickel(II) Pivalate Complex in Catalytic C–H/C–O Biaryl Coupling”
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 17. “C–H Alkenylation of Azoles with Enols and Esters by Nickel Catalysis”
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 19. “C–H Bond Functionalization: Emerging Synthetic Tools for the Synthesis of Natural Products and Pharmaceuticals”
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1. “TBA: C–C Bond Activation”
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2. “TBA: C–S bond transformation”
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2019, to be submitted.
3. “TBA: C–O bond activation”
Matsushita, K.; Takise, R.; Okita, T.; Muto, K.; [Yamaguchi, J.](#)*
2019, to be submitted.
4. “TBA: Dearomative transformation”
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2019, submitted.
5. “TBA: Essay”
Narayama, K.; [Yamaguchi, J.](#)*
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6. “TBA: Deoxyganative coupling”

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8. "TBA: Dearomative transformation"

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1. "Pd-Catalyzed Denitrative Intramolecular C-H Arylation"
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2. "Generation of strong casein kinase 1 inhibitor of Arabidopsis thaliana"
Saito, A. N.; Matsuo, H.; Kuwata, K.; Ono, A.; Kinoshita, T.; [Yamaguchi, J.*](#); Nakamichi, N.*
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3. "Casein kinase 1 family regulates PRR5 and TOC1 in the Arabidopsis circadian clock"
Uehara, T. N.; Mizutani, Y.; Kuwata, K.; Hirota, T.; Sato, A.; Mizoi, J.; Takao, S.; Matsuo, H.; Suzuki, T.; Ito, S.; Saito, A. N.; Nishiwaki Ohkawa, T.; Yamaguchi-Shinozaki, K.; Yoshimura, T.; Kay, S. A.; Itami, K.; Kinoshita, T.; [Yamaguchi, J.*](#); Nakamichi, N.*
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6. "Pd-Catalyzed Dearomative Allylation of Benzyl Phosphates"
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Org. Lett. **2018**, *20*, 4354-4357.
7. "Synthesis of A Heptaarylisquinoline: Unusual Disconnection for Constructing Isoquinoline Frameworks"
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8. "Dibenzofuran Synthesis: Decarbonylative Intramolecular C-H Arylation of Aromatic Esters"
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9. "Decarbonylative Methylation of Aromatic Esters by a Nickel Catalyst"
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10. "Modular Synthesis of Heptaaryllindole"
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11. "Pd-Catalyzed Decarbonylative C-H Coupling of Azoles and Aromatic Esters"
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13. "Decarbonylative Aryl Thioether Synthesis by Ni Catalysis"
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15. "Design, Synthesis and Evaluation of γ -Turn Mimetics as LSD1-Selective Inhibitors"
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Takise, R.; Muto, K.; [Yamaguchi, J.*](#)
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Highlighted as an Inside Backcover
20. "Thiazole-based sigma-1 receptor ligands: Diversity by late-stage C–H arylation of thiazoles, structure affinity and selectivity relationships and molecular interactions"
Kokornaczyk, A.; Schepmann, D.; [Yamaguchi, J.](#); Itami, K.; Laurini, E.; Fermeglia, M.; Prich, S.; Wunsch, B*
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21. "Theoretical Elucidation of Potential Enantioselectivity in a Pd-Catalyzed Aromatic C–H Coupling Reaction"
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22. "Synthesis of Multiply Arylated Pyridines"
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23. "Rh-catalyzed regiodivergent hydrosilylation of acyl aminocyclopropanes controlled by monophosphine ligands"
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26. "Structure-Activity Relation of AMOR Sugar Molecule that Activates Pollen-Tubes for Ovular Guidance"
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28. "Palladium-Catalyzed Decarbonylative Alkynylation of Aromatic Esters"

- Okita, T.; Kumazawa, K.; Takise, R.; Muto, K.; Itami, K.*; [Yamaguchi, J.*](#)
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29. “Syntheses of Biologically Active 2-Arylcyclopropylamines”
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38. “C–H Arylation and Alkenylation of Imidazoles by Nickel Catalysis: Solvent-accelerated Imidazole C–H Activation”
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[Highlighted in Science Daily, Phys. Org, Nature Communications Highlights Article](#)
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 Oshima, T.; Yamanaka, I.; Kumar, A.; [Yamaguchi, J.](#); Nishiwaki Ohkawa, T.; Muto, K.; Kawamura, R.; Hirota, T.; Yagita, K.; Irle, S.; Kay, S. A.; Yoshimura, T.*; Itami, K.*
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47. " β -Selective C–H Arylation of Pyrroles Leading to Concise Syntheses of Lamellarins C and I"
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