

Publication List

Researcher ID: [D-4198-2009](#)

OCRID: [0000-0002-3896-5882](#)

Scopus Author ID: [7103415328](#)

Sum of the Times Cited: **7166** h-index: **42** (by Scopus)

Representative publications

1. "Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents"
Suzuki, S.; Itami, K.*; [Yamaguchi, J.*](#)
Angew. Chem., Int. Ed. **2017**, *56*, 15010-15013.
2. "Cross-coupling of Aromatic Esters and Amides"
Takise, R.; Muto, K.; [Yamaguchi, J.*](#)
Chem. Soc. Rev. **2017**, *46*, 5864-5888 (Review).
3. "Rh-catalyzed Regiodivergent Hydrosilylation of Acyl Aminocyclopropanes Controlled by Monophosphine Ligands"
Kondo, H.; Itami, K.; [Yamaguchi, J.*](#)
Chem. Sci. **2017**, *8*, 3799-3803.
4. "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.
5. "C-H Arylation and Alkenylation of Imidazoles by Nickel Catalysis: Solvent-accelerated Imidazole C-H Activation"
Muto, K.; Hatakeyama, T.; [Yamaguchi, J.*](#); Itami, K.*
Chem. Sci. **2015**, *6*, 6792-6798.
6. "Decarbonylative Organoboron Cross-coupling of Esters by Nickel Catalysis"
Muto, K.; [Yamaguchi, J.*](#); Musaev, D. G.*; Itami, K.*
Nature Commun **2015**, *6*, 7508.
7. "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.*
Angew. Chem., Int. Ed. **2015**, *54*, 7193-7197.
8. "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.
9. "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.
10. "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.
11. "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.
12. "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.*](#)
J. Am. Chem. Soc. **2014**, *136*, 13226-13232.

13. "Ni-Catalyzed α -Arylation of Ketones with Phenol Derivatives"
Takise, R.; Muto, K.; [Yamaguchi, J.](#)*; J. Itami K.*
Angew. Chem., Int. Ed. **2014**, 53, 6791–6794.
14. "Aromatic C–H Coupling with Hindered Arylboronic Acids by Pd/Fe Dual Catalysts"
Yamaguchi, K.; Kondo, H.; [Yamaguchi, J.](#)*; Itami, K.*
Chem. Sci. **2013**, 3753–3757.
15. "Isolation, Structure, and Reactivity of an Arylnickel(II) Pivalate Complex in Catalytic C–H/C–O Biaryl Coupling"
Muto, K.; [Yamaguchi, J.](#)*; Lei, A.*; Itami, K.*
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16. "C–H Alkenylation of Azoles with Enols and Esters by Nickel Catalysis"
Lingkui, M.; Kamada, Y.; Muto, K.; [Yamaguchi, J.](#)*; Itami, K.*
Angew. Chem., Int. Ed. **2013**, 52, 38, 10048–10051.
17. "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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18. "C–H Bond Functionalization: Emerging Synthetic Tools for the Synthesis of Natural Products and Pharmaceuticals"
[Yamaguchi, J.](#)*; Yamaguchi, A. D.; Itami, K.*
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19. "Decarbonylative C–H Coupling of Azoles and Aryl Esters: Unprecedented Nickel Catalysis and Application to the Synthesis of Muscoride A"
Amaiike, K.; Muto, K.; [Yamaguchi, J.](#)*; Itami, K.*
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1. "TBA: C–C Bond Activation"
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2019, to be submitted.
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: Plant CK1 inhibitor"
Saito, A. N.; Nakamichi, N.*; [Yamaguchi, J.](#)*
2019, to be submitted.
5. "TBA: Dearomative transformation"
Komatsuda, M.; Kato, H.; Muto, K.*; [Yamaguchi, J.](#)*
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6. "TBA: C–NO₂ bond transformation"
Asahara, K.; Okita, T.; Saito, A. N.; Kashihara, M.; Muto, K.; Nakao, Y.; [Yamaguchi, J.](#)*
2019, to be submitted.
7. "TBA: Essay"
Narayama, K.; [Yamaguchi, J.](#)*
2019, to be submitted.

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1. "TBA: Plant Circadian Modulator"
Uehara, T. N.; Mizutani, Y.; Kuwata, K.; Hirota, T.; Sato, A.; Takao, S.; Matsuo, H.; Nishiwaki-Ohkawa, T.; Yoshimura, T.; Kay, S.; Itami, K.; Kinoshita, T.; [Yamaguchi, J.*](#); Nakamichi, N.*
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2. "Cell-based screen identifies a new potent and highly selective CK2 inhibitor for modulation of circadian rhythms and cancer cell growth"
Oshima, T.; Niwa, Y.; Kuwata, K.; Srivastava, A.; Hyoda, T.; Tsuchiya, Y.; Kumagai, M.; Tsuyuguchi, M.; Tamaru, T.; Sugiyama, A.; Ono, N.; Zolboot, N.; Aikawa, Y.; Oishi, S.; Nonami, A.; Arai, F.; Hagihara, S.; [Yamaguchi, J.](#); Tama, F.; Kunisaki, Y.; Yagita, K.; Ikeda, M.; Kinoshita, T.; Kay, S. A.; Itami, K.; Hirota, T.
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3. "Studying Abroad Led to New Friendships and New Research Directions"
[Yamaguchi, J.*](#)
Yakugaku zasshi, **2019**, 139, 229–233.
4. "Pd-Catalyzed Dearomative Allylation of Benzyl Phosphates"
Komatsuda, M. Muto, K.*; [Yamaguchi, J.*](#)
Org. Lett. **2018**, 20, 4354–4357.
5. "Synthesis of A Heptaarylisquinoline: Unusual Disconnection for Constructing Isoquinoline Frameworks"
Asako, T.; Suzuki, S.; Itami, K.; Muto, K.; [Yamaguchi, J.*](#)
Chem. Lett. **2018**, 47, 968–970.
Highlighted as an Editor's Choice
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6. "Dibenzofuran Synthesis: Decarbonylative Intramolecular C–H Arylation of Aromatic Esters"
Okita, T.; Komatsuda, M.; Saito, A. N.; Hisada, T.; Takahara, T. T.; Nakayama, K. P.; Isshiki, R.; Takise, R.; Muto, K.; [Yamaguchi, J.*](#)
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7. "Decarbonylative Methylation of Aromatic Esters by a Nickel Catalyst"
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8. "Modular Synthesis of Heptaaryllindole"
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9. "Pd-Catalyzed Decarbonylative C–H Coupling of Azoles and Aromatic Esters"
Matsushita, K.; Takise, R.; Hisada, T.; Suzuki, S.; Isshiki, R.; Itami, K.; Muto, K.; [Yamaguchi, J.*](#)
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10. "Decarbonylative Coupling Reaction of Aromatic Esters"
Isshiki, R.; Okita, T.; Muto, K.; [Yamaguchi, J.*](#)
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11. "Decarbonylative Aryl Thioether Synthesis by Ni Catalysis"
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12. "Decarbonylative C–P Bond Formation using Aromatic Esters and Organophosphorus Compounds"
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13. "Design, Synthesis and Evaluation of γ -Turn Mimetics as LSD1-Selective Inhibitors"
Ota, Y.; Miyamura, S.; Araki, M.; Itoh, Y.; Yasuda, S.; Masada, M.; Taniguchi, T.; Sowa, Y.; Sakai, T.; ; Itami, K.; [Yamaguchi, J.*](#); Suzuki, T.*
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16. "Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents"
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17. "Cross-coupling of Aromatic Esters and Amides"
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Highlighted as an Inside Backcover
18. "Thiazole-based sigma-1 receptor ligands: Diversity by late-stage C-H arylation of thiazoles, structure affinity and selectivity relationships and molecular interactions"
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19. "Theoretical Elucidation of Potential Enantioselectivity in a Pd-Catalyzed Aromatic C-H Coupling Reaction"
Nishimoto, Y.; Kondo, H.; Yamaguchi, K.; Yokogawa, D.; [Yamaguchi, J.](#); Itami, K.; Irle, S*
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20. "Synthesis of Multiply Arylated Pyridines"
Asako, T.; Hayashi, W.; Suzuki, S.; Amaike, K.; Itami, K.; Muto, K.; [Yamaguchi, J.*](#)
Tetrahedron **2017**, 73, 3669-3676 (Invited contribution).
21. "Rh-catalyzed regiodivergent hydrosilylation of acyl aminocyclopropanes controlled by monophosphine ligands"
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Most Read Article (March, 2017)
Highlighted in Chemical Daily, Nikkei-sangyo Shinbun, Phys.org, c2W, Science Daily, Chem-Station
23. "Synthesis of Fully Arylated (Hetero)arenes"
Suzuki, S.; [Yamaguchi, J.*](#)
Chem. Commun. **2017**, 53, 1568-1582 (Invited contribution, Review).
24. "Structure-Activity Relation of AMOR Sugar Molecule that Activates Pollen-Tubes for Ovular Guidance"
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25. "Toward an Ideal Synthesis of (Bio)molecules through Direct Arene Assembling Reactions"
[Yamaguchi, J.*](#); Itami, K.*
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26. "Palladium-Catalyzed Decarbonylative Alkynylation of Aromatic Esters"
Okita, T.; Kumazawa, K.; Takise, R.; Muto, K.; Itami, K.*; [Yamaguchi, J.*](#)
Chem Lett. **2017**, 46, 218-220.
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27. "Syntheses of Biologically Active 2-Arylcyclopropylamines"
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28. "Palladium-Catalyzed Decarbonylative Cross-Coupling of Azinecarboxylates with Arylboronic Acids"
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29. "C-H Activation Enables Rapid Structure-Activity Relationship Study of Arylcyclopropyl amines for Potent and Selective LSD1 Inhibitors"
Miyamura, S.; Araki, M.; Ota, Y.; Itoh, Y.; Yasuda, S.; Masada, M.; Taniguchi, T.; Sowa, Y.; Sakai, T.; Suzuki, T.*; Itami, K.*; and [Yamaguchi, J.*](#)
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32. "The AMOR Arabinogalactan Sugar Chain Induces Pollen-Tube Competency to Respond to Ovular Guidance"
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33. "Development and Elucidation of the Ni-Catalyzed Direct Coupling Reaction"
[Yamaguchi, J.*](#); Muto, K.; Itami, K.
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35. "Microwave-assisted regioselective direct C–H arylation of thiazole derivatives leading to increased σ_1 receptor affinity"
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37. "Decarbonylative Organoboron Cross-coupling of Esters by Nickel Catalysis"
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38. "C-H Activation Generates Period-Shortening Molecules That Target Cryptochrome in the Mammalian Circadian Clock"
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40. “Concise Syntheses of Dictyodendrins A and F by a Sequential C–H Functionalization Strategy”

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41. “Synthesis, Affinity and Structure Activity Relationships of Novel, Selective and Dual Targeting CCR2 and CCR5 Receptor Antagonists”

Junker, A.; Kokornaczyk, A. K.; Frehland, B.; Schepmann, D.; Yamaguchi, J.; Itami, K.; Faust, A.; Hermann, S. Wagner, S.; Kopka, K.; Schäfers, M.; Koch, M.; Weiss, C.; Zweemer, A. J. M. Heitman, L. H.; Wünsch, B*

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42. “Ni-Catalyzed α -Arylation of Esters and Amides with Phenol Derivatives”

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43. “Stereodivergent Synthesis of Arylcyclopropylamines by Sequential C–H Borylation and Suzuki–Miyaura Coupling”

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44. “Key Mechanistic Features of the Ni-catalyzed C–H/C–O Biaryl Coupling with Azoles and NaphthalenylPivalates”

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45. “ β -Selective C–H Arylation of Pyrroles—Leading to Concise Syntheses of Lamellarins C and I”

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46. “Regioselective Allylic C–H Oxidation of Terminal Alkenes with Pd/sulfoxide-oxazoline Catalyst”

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48. “2,4- and 2,5-Disubstituted Arylthiazoles: Rapid Synthesis by C–H Coupling and Biological Evaluation”

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Hattori, K.; Ziadi, A.; Itami, K.; [Yamaguchi, J.*](#)
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52. “Programmed Synthesis of Arylthiazoles through Sequential C-H Couplings”
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53. “Isolation, Structure, and Reactivity of an Arylnickel(II) Pivalate Complex in Catalytic C–H/C–O Biaryl Coupling”
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