

Publication List

Researcher ID: D-4198-2009 (<http://www.researcherid.com/rid/D-4198-2009>)

Sum of the Times Cited: **5359** h-index: **37**

A. 学術雑誌に発表した論文（査読有）

下線：山口潤一郎 *：責任著者(corresponding author)

1. "TBA"
Issiki R.; Muto, K.; Yamaguchi, J.*
2018, to be submitted.
2. "TBA"
Okita, T.; Muto, K.; Yamaguchi, J.*
2018, to be submitted.
3. "TBA"
Kondo, H.; Miyamura, S.; Kobayashi, C.; Arifin; Irle, S.; Itami, K. Yokogawa, D.* Yamaguchi, J.*
2018, to be submitted.
4. "TBA"
Ota, Y.; Miyamura, S.; Araki, M; Itoh, Y.; Yasuda, S.; Masada, M.; Taniguchi, T.; Sowa, Y.; Sakai, T.; ; Itami, K.; Yamaguchi, J.*; Suzuki, T.*
2018, to be submitted.
5. "TBA"
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.*
2017, submitted.
6. "TBA"
Asako, T.; Muto, K.; Yamaguchi, J.*
2017, accepted (Review).
7. "TBA"
Issiki, R.; Okita, T; Muto, K.; Yamaguchi, J.*
2017, accepted (Review).
8. "TBA"
Suzuki, S.; Itami, K.*; Yamaguchi, J.*
2017, submitted.
9. "Catalytic α -Arylation of Ketones with Heteroaromatic Esters"
Issiki, R.; Takise, R.; Itami, K.; Muto, K.; Yamaguchi, J.*
***Synlett* 2017**, 28, 2599–2603.
10. "Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents"
Suzuki, S.; Itami, K.*; Yamaguchi, J.*
***Angew. Chem., Int. Ed.* 2017**, 56, 15010-15013.
11. "Cross-coupling of Aromatic Esters and Amides"
Takise, R.; Muto, K.; Yamaguchi, J.*
***Chem. Soc. Rev.* 2017**, 46, 5864-5888 (Review).
[Highlighted as an Inside Backcover](#)
12. "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.; Pricl, S.; Wünsch, B*
***ChemMedChem* 2017**, 12, 1070–1080.
13. "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*
***J. Org. Chem.* 2017**, 82, 4900-4906.
14. "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).
15. "Rh-catalyzed regiodivergent hydrosilylation of acyl aminocyclopropanes controlled by monophosphine ligands"
Kondo, H.; Itami, K.; [Yamaguchi, J.*](#)
Chem. Sci. **2017**, *8*, 3799-3803.
16. "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.
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Highlighted in Chemical Daily, Nikkei-sangyo Shinbun, Phys.org, c2W, Science Daily, Chem-Station
17. "Synthesis of Fully Arylated (Hetero)arenes"
Suzuki, S.; [Yamaguchi, J.*](#)
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18. "Structure-Activity Relation of AMOR Sugar Molecule that Activates Pollen-Tubes for Ovular Guidance"
Jiao J.; Mizukami, A.G.; Sankaranarayanan, S.; [Yamaguchi, J.](#); Itami, K.; Higashiyama, T.*
Plant Physiol. **2017**, *173*, 354-363.
19. "Toward an Ideal Synthesis of (Bio)molecules through Direct Arene Assembling Reactions"
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Bull. Chem. Soc. Jpn. **2017**, *90*, 367-383 (Award accounts).
Most Read Article (December, 2016)
20. "Palladium-Catalyzed Decarbonylative Alkynylation of Aromatic Esters"
Okita, T.; Kumazawa, K.; Takise, R.; Muto, K.; Itami, K.*; [Yamaguchi, J.*](#)
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Most Read Article (November-December, 2016)
21. "Syntheses of Biologically Active 2-Arylcyclopropylamines"
Miyamura, S.; Itami, K.; [Yamaguchi, J.*](#)
Synthesis **2017**, *49*, 1131-1149 (Review).
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22. "Palladium-Catalyzed Decarbonylative Cross-Coupling of Azinecarboxylates with Arylboronic Acids"
Muto, K.; Hatakeyama, T.; Itami, K.*; [Yamaguchi, J.*](#)
Org. Lett. **2016**, *18*, 5106-5109.
23. "C-H Activation Enables Rapid Structure-Activity Relationship Study of Arylcyclopropyl amines for Potent and Selective LSD1 Inhibitors"
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24. "Cyanation of Phenol Derivatives with Aminoacetonitriles by Nickel Catalysis"
Takise, R.; Itami, K.*; [Yamaguchi, J.*](#)
Org. Lett. **2016**, *18*, 4428-4431.
25. "Nickel-Catalyzed Aromatic C-H Functionalization"
[Yamaguchi, J.*](#); Muto, K.; Itami, K.
Top Curr. Chem. **2016**, *374*, 55 (Review).
26. "The AMOR Arabinogalactan Sugar Chain Induces Pollen-Tube Competency to Respond to Ovular Guidance"
Mizukami, A. G.; Inatsugi, R.; Jiao, J.; Kotake, T.; Kuwata, K.; Ootani, K.; Okuda, S.; Sankaranarayanan, S.; Sato, Y.; Maruyama, D.; Iwai, H.; Garénaux, E.; Sato, C.; Kitajima, K.; Tsumuraya, Y.; Mori, H.; [Yamaguchi, J.](#); Itami, K.; Sasaki, N.; Higashiya, T.*
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27. "Development and Elucidation of the Ni-Catalyzed Direct Coupling Reaction"
[Yamaguchi, J.*](#); Muto, K.; Itami, K.

- Chemical Times** 2016, 1–7 (Review).
28. “Synthesis of Triarylpyridines in Thiopeptide Antibiotics by Using a C–H Arylation/Ring-Transformation Strategy”
Amaike, K.; Itami, K.; Yamaguchi, J.*
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29. “Microwave-assisted regioselective direct C–H arylation of thiazole derivatives leading to increased σ_1 receptor affinity”
Kokornaczyk, A.; Schepmann, D.; Yamaguchi, J.; Itami, K.; Wünsch, B.*
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30. “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.
31. “Decarbonylative Organoboron Cross-coupling of Esters by Nickel Catalysis”
Muto, K.; Yamaguchi, J.*; Musaev, D. G.*; Itami, K.*
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Highlighted in [Science Daily](#), [Phys. Org.](#), [Nature Communnications Highlights Article](#)
32. “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.
Highlighted in [Chunichi Shimbun](#), [Yahoo! News](#), [Zaikei Shimbun](#), [Monolist](#), [Alpha Galileo JP](#), [EurekAlert! JP](#), [Kagaku](#), [ResearchSEA](#), [Alpha Galileo](#), [EurekAlert!](#), [Biology News Net](#), [ScienceNewslines](#), [Science Daily](#), [Medical News Today](#), [Press News Org](#), [Deep Stuff](#), [News Medical](#), [Health Medicine Net](#), [Bio Spectrum](#), [Chemisch2Weekblad](#), [Lab Roots](#), [EN-CPhI.CN](#), [Terra Daily](#), [Open Science World](#), [Sleep Review](#), [Asian Scientist](#). Selected as Cover of the journal.
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34. “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.
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35. “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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36. “Ni-Catalyzed α -Arylation of Esters and Amides with Phenol Derivatives”
Koch, E.; Takise, R.; Studer, A.; Yamaguchi, J.*; Itami, K.*
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37. “Stereodivergent Synthesis of Arylcyclopropylamines by Sequential C–H Borylation and Suzuki–Miyaura

Coupling”

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38. “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.*

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39. “b-Selective C–H Arylation of Pyrroles Leading to Concise Syntheses of Lamellarins C and I”

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

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41. “Ni-Catalyzed α -Arylation of Ketones with Phenol Derivatives”

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42. “2,4- and 2,5-Disubstituted Arylthiazoles: Rapid Synthesis by C–H Coupling and Biological Evaluation”

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43. “Manganese-Catalyzed Intermolecular C–H/C–H Coupling of Carbonyls and Heteroarenes”

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44. “Late-Stage C–H Coupling Enables Rapid Identification of HDAC Inhibitors: Synthesis and Evaluation of NCH-31 Analogues”

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45. “Diverse Modification of the 4-Methylphenyl Moiety of TAK-779 by Late-Stage Suzuki-Miyaura Cross-Coupling”

Junker, A.; Schepmann, D.; [Yamaguchi, J.](#); Itami, K. Faust, A.; Kopka, K.; Wagner, S.; Wunsch*, B.

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46. “Programmed Synthesis of Arylthiazoles through Sequential C–H Couplings”

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

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48. “Palladium-Catalyzed C–H and C–N Arylation of Aminothiazoles with Arylboronic Acids”

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49. “C–H Alkenylation of Azoles with Enols and Esters by Nickel Catalysis”
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Yamaguchi, K.; Kondo, H.; Yamaguchi, J.*; Itami, K.*
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51. “Synthesis of Thiophene-Based TAK-779 Analogues by C–H Arylation”
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J. Org. Chem. **2013**, 78, 5579–5586.
52. “Nickel-Catalyzed Direct Coupling of Heteroarenes”
Yamaguchi, J.*; Muto, K.; Amaike, K.; Yamamoto, T.; Itami, K.*
J. Synth. Org. Chem. Jpn. **2013**, 71, 576–587 (Accounts).
53. “Decarbonylative C–H Biaryl Coupling”
Yamaguchi, J.*; Itami, K.*
Kagaku **2013**, 35–39 (Accounts).
54. “Recent Progress in Nickel-Catalyzed Biaryl Coupling”
Yamaguchi, J.*; Muto, K.; Itami, K.*
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Meyer, C.; Neue, B.; Schepmann, D.; Yanagisawa, S.; Yamaguchi, J.; Würthwein, E.-U.; Itami, K.*; Wunsch, B.*
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56. “Pd-catalyzed direct C–H bond functionalization of spirocyclic sigma-1 ligands: generation of a pharmacophore model and analysis of reverse binding mode by docking into a 3D homology model of the sigma-1 receptor”
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J. Med. Chem. **2012**, 55, 8047–8065.
57. “Decarbonylative C–H Coupling of Azoles and Aryl Esters: Unprecedented Nickel Catalysis and Application to the Synthesis of Muscoride A”
Amaike, K.; Muto, K.; Yamaguchi, J.*; Itami, K.*
J. Am. Chem. Soc. **2012**, 134, 13573–13576.
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58. “Late-Stage C–H Bond Arylation of Spirocyclic sigma-1 Ligands for Analysis of Complementary sigma-1 Receptor Surface”
Meyer, C.; Schepmann, D.; Yanagisawa, S.; Yamaguchi, J.; Wunsch, B.; Itami, K.*
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59. “Synthesis of Bioactive Compounds through C–H Bond Functionalization”
Yamaguchi, J.*; Itami, K.*
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60. “Pd- and Cu-catalyzed C–H Arylation of Indazoles”
Hattori, K.; Yamaguchi, K.; Yamaguchi, J.*; Itami, K.*
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61. “Hindered Biaryls by C–H Coupling: Bisoxazoline-Pd Catalysis Leading to Enantioselective C–H Coupling”
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63. “Nickel-Catalyzed C–H/C–O Coupling of Azoles with Phenol Derivatives”

Muto, K.; [Yamaguchi, J.](#); Itami, K. *

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64. “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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65. “Synthesis of Dragmacidin D via Direct C–H Couplings”

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67. “Enantioselective Total Syntheses of (–)-Palau’amine, (–)-Axinellamines, and (–)-Massadines”

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69. “Synthesis of Bioactive Compounds through C–H Bond Functionalization”

[Yamaguchi, J.](#)*; Itami, K.*

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70. “Oxidative C–H/C–H Coupling of Azine and Indole/Pyrrole Nuclei: Palladium Catalysis and Synthesis of Eudistomin U”

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Kirchberg, S.; Tani, S.; Ueda, K.; [Yamaguchi, J.](#); Studer, A.*; Itami, K.*

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74. "Syntheses of Fumagillin and Ovalicin"
Yamaguchi, J.; Hayashi, Y.*
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75. "Asymmetric Total Synthesis of a Natural Product Using Catalytic Enantioselective Stereoablative Reactions"
Yamaguchi, J.*
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Ohta, M.; Quick, M. P.; Yamaguchi, J.; Wunsch, B.*; Itami, K.*
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