

Publication List

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

Sum of the Times Cited: **5554** h-index: **38**

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.*; 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.*
J. Am. Chem. Soc. **2013**, 135, 16384–16387.
 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.*
Chem. Sci. **2013**, 3753–3757.
 18. “C–H Bond Functionalization: Emerging Synthetic Tools for the Synthesis of Natural Products and Pharmaceuticals”
Yamaguchi, J.*; Yamaguchi, A. D.; Itami, K.*
Angew. Chem., Int. Ed. **2012**, 51, 8960–9009 (Review).
 19. “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.
 20. “Nickel-Catalyzed C–H/C–O Coupling of Azoles with Phenol Derivatives”
Muto, K.; Yamaguchi, J.; Itami, K.*
J. Am. Chem. Soc. **2012**, 134, 169–172.
 21. “Synthesis of Dragmacidin D via Direct C–H Couplings”
Mandal, D.; Yamaguchi, A. D.; Yamaguchi, J.*; Itami, K.*
J. Am. Chem. Soc. **2011**, 133, 19660–19663.

Under revision, submitted and to be Submitted

1. “TBA: Decarbonylative Transformation”
Many students with Muto, K.; Yamaguchi, J.*
2018, to be submitted.
2. “TBA: Fully Arylated Molecules”
Asako, T.; Suzuki, S.; Itami, K.; Muto, K.; Yamaguchi, J.*
2018, to be submitted.
3. “TBA: Decarbonylative Transformation”
Matsushita, K.; Takise, R.; Suzuki, S.; Hisada, T.; Muto, K.; Itami, K.; Yamaguchi, J.*
2018, to be submitted.
4. “TBA: Decarbonylative Transformation”
Ishitobi, K.; Isshiki, R.; Asahara, K. K.; Lim, C.; Muto, K.; Yamaguchi, J.*
2018, to be submitted.
5. “TBA: Decarbonylative Transformation”
Okita, T.; Muto, K.; Yamaguchi, J.*
2018, to be submitted.
6. “TBA: C–C Bond Activation”
Kondo, H.; Miyamura, S.; Kobayashi, C.; Arifin; Irle, S.; Itami, K. Yokogawa, D.* Yamaguchi, J.*
2018, to be submitted.
7. “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.*
2018, submitted.
8. “TBA: Fully Arylated Molecules”
Suzuki, S.; Asako, T.; Itami, K.*; Yamaguchi, J.*
2018, submitted.

Full publications

1. "Decarbonylative C–P Bond Formation using Aromatic Esters and Organophosphorus Compounds"
Issiki R.; Muto, K.; [Yamaguchi, J.*](#)
Org. Lett. **2018**, ASAP DOI: 10.1021/acs.orglett.8b00080
2. "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.*
Bioorg. Med. Chem. **2018**, *26*, 775–785.
3. "Decarbonylative Coupling Reaction of Aromatic Esters"
Issiki, R.; Okita, T; Muto, K.; [Yamaguchi, J.*](#)
J. Synth. Org. Chem. Jpn. **2018**, accepted (Review).
4. "Synthesis of fully arylated (hetero)arenes by Coupling Reaction"
Asako, T.; Muto, K.; [Yamaguchi, J.*](#)
J. Synth. Org. Chem. Jpn. **2018**, accepted (Review).
5. "Catalytic α -Arylation of Ketones with Heteroaromatic Esters"
Issiki, R.; Takise, R.; Itami, K.; Muto, K.; [Yamaguchi, J.*](#)
Synlett **2017**, *28*, 2599–2603 (Invited contribution).
6. "Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents"
Suzuki, S.; Itami, K.*; [Yamaguchi, J.*](#)
Angew. Chem., Int. Ed. **2017**, *56*, 15010-15013.
7. "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](#)
8. "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.; Wunsch, B*
ChemMedChem **2017**, *12*, 1070–1080.
9. "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.
10. "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).
11. "Rh-catalyzed regiodivergent hydrosilylation of acyl aminocyclopropanes controlled by monophosphine ligands"
Kondo, H.; Itami, K.; [Yamaguchi, J.*](#)
Chem. Sci. **2017**, *8*, 3799-3803.
12. "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.
[Most Read Article \(March, 2017\)](#)
[Highlighted in Chemical Daily, Nikkei-sangyo Shinbun, Phys.org, c2W, Science Daily, Chem-Station](#)
13. "Synthesis of Fully Arylated (Hetero)arenes"
Suzuki, S.; [Yamaguchi, J.*](#)
Chem. Commun. **2017**, *53*, 1568–1582 ((Invited contribution, Review).
14. "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 (Invited contribution).
15. "Toward an Ideal Synthesis of (Bio)molecules through Direct Arene Assembling Reactions"
[Yamaguchi, J.*](#); Itami, K*
Bull. Chem. Soc. Jpn. **2017**, *90*, 367–383 ((Invited contribution, Award accounts).
[Most Read Article \(December, 2016\)](#)

16. "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.
[Most Read Article \(November–December, 2016\)](#)
17. "Syntheses of Biologically Active 2-Arylcyclopropylamines"
Miyamura, S.; Itami, K.; [Yamaguchi, J.*](#)
Synthesis **2017**, *49*, 1131–1149 (Review).
[Highlighted as a Front Cover](#)
18. "Palladium-Catalyzed Decarbonylative Cross-Coupling of Azinecarboxylates with Arylboronic Acids"
Muto, K.; Hatakeyama, T.; Itami, K.*; [Yamaguchi, J.*](#)
Org. Lett. **2016**, *18*, 5106–5109.
19. "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.*](#)
Org. Biomol. Chem. **2016**, *14*, 8576–8585.
[Editors Choice \(December, 2016\)](#).
20. "Cyanation of Phenol Derivatives with Aminoacetonitriles by Nickel Catalysis"
Takise, R.; Itami, K.*; [Yamaguchi, J.*](#)
Org. Lett. **2016**, *18*, 4428–4431.
21. "Nickel-Catalyzed Aromatic C–H Functionalization"
[Yamaguchi, J.*](#); Muto, K.; Itami, K.
Top Curr. Chem. **2016**, *374*, 55 (Invited contribution, Review).
22. "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.*
Current Biology **2016**, *26*, 1091–1097.
[Highlighted in Chunichi Shimbun, Asahi Shinbun, Nikkei Shinbun, Saga Shinbun, EurekAlert!, Kyodo Tsushin, goo News, Gunosy, Chem-Station](#)
23. "Development and Elucidation of the Ni-Catalyzed Direct Coupling Reaction"
[Yamaguchi, J.*](#); Muto, K.; Itami, K.
Chemical Times **2016**, 1–7 (Invited contribution, Review).
24. "Synthesis of Triarylpyridines in Thiopeptide Antibiotics by Using a C–H Arylation/Ring-Transformation Strategy"
Amaike, K.; Itami, K.; [Yamaguchi, J.*](#)
Chem. Eur. J. **2016**, *22*, 4384–4388.
25. "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.*
Med. Chem. Commun. **2016**, *7*, 327–331.
26. "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.
27. "Decarbonylative Organoboron Cross-coupling of Esters by Nickel Catalysis"
Muto, K.; [Yamaguchi, J.*](#); Musaev, D. G.*; Itami, K.*
Nature Commun **2015**, *6*, 7508.
[Highlighted in Science Daily, Phys. Org, Nature Communications Highlights Article](#)
28. "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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Highlighted in Chunichi Shimbun, Yahoo! News, Zaikei Shimbun, Monolist, Alpha Galileo JP, EurekAlert! JP, Kagaku, ResearchSEA, Alpha Galileo, EurekAlert!, Biology News Net, ScienceNewline, 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.

29. “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.
Highlighted in Toyo Keizai, Yahoo! Japan News, Chunichi Shimbun, Asahi Shimbun, Nikkei Shimbun, Nifty News, Nokoniko News, Infoseek News, Nikkei Press News, Science Portal, Japanese Research, JPubb, Mynabi News, Zaikei Shimbun, The Huffington Post, Livedoor News, Bioimpact, Nikkei Biotech, Biglobe News, Ascii, EurekAlert!, ResearchSEA, Science Newline, Phys.Org, Chemicals Technology, Chemistry News, Health Medicine Network, Science Daily, Technobahn, Innovation Reports, Chemistry 2011, RevoScience, Asian Scientist, Kagaku Shimbun, Alpha Galileo, Chemical & Engineering News, Synfacts.
30. “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.
Highlighted in EurekAlerts!, Phys.Org., ResearchSEA, Science Newline, Science Daily, Breaking New, Health Medicine Network, Bright Surf, Sci Casts, Medical News Today, Emory News Center, Society for Neuroscience.
31. “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*
Org. Biomol. Chem. **2015**, *13*, 2407–2422.
32. “Ni-Catalyzed α -Arylation of Esters and Amides with Phenol Derivatives”
Koch, E.; Takise, R.; Studer, A.; Yamaguchi, J.*; Itami, K.*
Chem. Commun. **2015**, *51*, 855–857.
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33. “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.
34. “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.
Highlighted in EurekAlerts!, Phys.Org., Science Codex, Science Newline, Science Daily, Emory University eScience Commons, Bright Surf, Laboratory Equipment, Web Newswire, Medical News Today, Emory News Center, Jersey Tribune, Science Seeker, News Locker, USA News, News Nom, Bio Portfolio, Toronto Telegraph, Technobahn, The Daily Purrs, Chemistry2011.
35. “ 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.
Most Read Article (September–October, 2014)
36. “Regioselective Allylic C–H Oxidation of Terminal Alkenes with Pd/sulfoxide-oxazoline Catalyst”
Kondo, H.; Yu, F.; Yamaguchi, J.; Liu, G.*; Itami, K.*
Org. Lett. **2014**, *16*, 4212–4215.
37. “Ni-Catalyzed α -Arylation of Ketones with Phenol Derivatives”
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Highlighted in BBC News, Chemistry Views, Phys.Org., Science Daily, Science Newline, R&D Magazine, The Chemical Daily, Kagaku Shimbun, Gendai Kagaku, Chemical Processing, Optronics Online, Wiley Science Café, EurekAlert!, Science Codex, Breaking News, Medindia, ResearchSEA, Innovations Report, Crazy Chucks, News nom, News Locker, USA News, Bio-Medicine, e! Science News, Technobahn, Brunch News, Interesting Tech, Press News, Chemistry 2011.org, Health Medicine Network, BioPortfolio, News Dump, Regator, Coyne Chemical, topix, Business News, Interceder, Nets247, 14U News, Jersey Tribune, Health News, Red Orbit, Medicininfos, Medic finder, Locker Dome, Chemistry Times.

38. "2,4- and 2,5-Disubstituted Arylthiazoles: Rapid Synthesis by C–H Coupling and Biological Evaluation" Lohrey, L.; Uehara, T. N.; Tani, S.; [Yamaguchi, J.](#)*; Humpf, H.-U.*; Itami, K*
Eur. J. Org. Chem. **2014**, 3387–3394.
39. "Manganese-Catalyzed Intermolecular C–H/C–H Coupling of Carbonyls and Heteroarenes" Hattori, K.; Ziadi, A.; Itami, K.; [Yamaguchi, J.](#)*
Chem. Comm. **2014**, 50, 4105–4107.
Most Read Article (March, 2014)
40. "Late-Stage C–H Coupling Enables Rapid Identification of HDAC Inhibitors: Synthesis and Evaluation of NCH-31 Analogues" Sekizawa, H.; Amaike, K.; Itoh, Y.; Suzuki, T.*; Itami, K.*; [Yamaguchi, J.](#)*
ACS. Med. Chem. Lett. **2014**, 582–586.
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41. "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.
Org. Biomol. Chem. **2014**, 12, 177–186.
42. "Programmed Synthesis of Arylthiazoles through Sequential C-H Couplings" Tani, S.; Uehara, T. N.; [Yamaguchi, J.](#); Itami, K.*
Chem. Sci. **2014**, 5, 123–135.
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43. "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.*
J. Am. Chem. Soc. **2013**, 135, 16384–16387.
44. "Palladium-Catalyzed C–H and C–N Arylation of Aminothiazoles with Arylboronic Acids" Uehara, T. N.; [Yamaguchi, J.](#)*; Itami, K.*
Asian J. Org. Chem. **2013**, 2, 1973–2013 (Invited contribution).
Mukaiyama Aldol Issue. Highlighted in Chemistry Views. Most Accessed Paper (No.1 in November 2013).
45. "C–H Alkenylation of Azoles with Enols and Esters by Nickel Catalysis" Linghui, M.; Kamada, Y.; Muto, K.; [Yamaguchi, J.](#)*; Itami, K.*
Angew. Chem., Int. Ed. **2013**, 52, 38, 10048–10051.
Highlighted in Newspapers (Chunichi, The Chemical Daily, Yahoo! News)
46. "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.
Most Accessed Articles (June 2013)
47. "Synthesis of Thiophene-Based TAK-779 Analogues by C–H Arylation" Junker, A.; [Yamaguchi, J.](#); Itami, K.*; Wunsch, B.*
J. Org. Chem. **2013**, 78, 5579–5586.
48. "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).
49. "Decarbonylative C–H Biaryl Coupling" [Yamaguchi, J.](#)*; Itami, K.*
Kagaku **2013**, 35–39 (Accounts).
50. "Recent Progress in Nickel-Catalyzed Biaryl Coupling"

Yamaguchi, J.*; Muto, K.; Itami, K.*

Eur. J. Org. Chem. **2013**, 19–30 (Review).

Most Accessed Articles (January 2013)

51. “Improvement of σ_1 receptor affinity by late-stage C–H bond arylation of spiro cyclic lactones”
Meyer, C.; Neue, B.; Schepmann, D.; Yanagisawa, S.; Yamaguchi, J.; Würthwein, E.-U.; Itami, K.*; Wunsch, B.*
Bioorg. Med. Chem. **2013**, *21*, 1844–1856.
52. “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”
Meyer, C.; Schepmann, D.; Yanagisawa, S.; Yamaguchi, J.; Dal Col, V.; Laurini, E.; Itami, K.*; Pricl, S.; Wunsch, B.*
J. Med. Chem. **2012**, *55*, 8047–8065.
53. “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.*
J. Am. Chem. Soc. **2012**, *134*, 13573–13576.
Highlighted in Newspapers (Chu-nichi, Asahi, The Chemical Daily, Yahoo!News, Mynavi-News, Nikkan kogyo, Kagaku Shinbun), Most Read Articles in August 2012
54. “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.*
Eur. J. Org. Chem. **2012**, 5972–5979.
55. “Synthesis of Bioactive Compounds through C–H Bond Functionalization”
Yamaguchi, J.*; Itami, K.*
Fine Chemicals **2012**, *41*, 38–44 (Review).
56. “Pd- and Cu-catalyzed C–H Arylation of Indazoles”
Hattori, K.; Yamaguchi, K.; Yamaguchi, J.*; Itami, K.*
Tetrahedron **2012**, *68*, 7605–7612 (Invited contribution).
57. “Hindered Biaryls by C–H Coupling: Bisoxazoline-Pd Catalysis Leading to Enantioselective C–H Coupling”
Yamaguchi, K.; Yamaguchi, J.*; Studer, A.; Itami, K.*
Chem. Sci. **2012**, *7*, 2165–2169.
Highlighted RSC Chemical Science blog, Most Read Articles in March and April 2012
58. “Mechanistic Studies on the Pd-catalyzed Direct C–H Arylation of 2-Substituted Thiophene Derivatives with Arylpalladium Bipyridyl Complexes”
Steinmetz, M.; Ueda, K.; Grimme, S.; Yamaguchi, J.; Kirchberg, S.; Itami, K.*; Studer, A.*
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