

Takuji Hatakeyama

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

6,304
citations

42
h-index

79
g-index

80
ext. papers

7,939
ext. citations

11
avg, IF

6.28
L-index

#	Paper	IF	Citations
74	One-Shot Synthesis of Expanded Heterohelicene Exhibiting Narrowband Thermally Activated Delayed Fluorescence.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	17
73	Investigating HOMO Energy Levels of Terminal Emitters for Realizing High-Brightness and Stable TADF-Assisted Fluorescence Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001090	6.4	19
72	Syntheses and Physical Properties of Cationic BN-Embedded Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2021 , 133, 12945-12950	3.6	5
71	Syntheses and Physical Properties of Cationic BN-Embedded Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12835-12840	16.4	10
70	Carbazole-Based DABNA Analogues as Highly Efficient Thermally Activated Delayed Fluorescence Materials for Narrowband Organic Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2021 , 133, 2918-2922	3.6	21
69	Carbazole-Based DABNA Analogues as Highly Efficient Thermally Activated Delayed Fluorescence Materials for Narrowband Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2882-2886	16.4	63
68	Hot Vibrational States in a High-Performance Multiple Resonance Emitter and the Effect of Excimer Quenching on Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8643-8655	9.5	26
67	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17910-17914	16.4	42
66	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. <i>Angewandte Chemie</i> , 2021 , 133, 18054-18058	3.6	10
65	Stable pure-blue hyperfluorescence organic light-emitting diodes with high-efficiency and narrow emission. <i>Nature Photonics</i> , 2021 , 15, 203-207	33.9	151
64	The Role of Reverse Intersystem Crossing Using a TADF-Type Acceptor Molecule on the Device Stability of Exciplex-Based Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1906614	24	63
63	Multiple Electrophilic C-H Borylation of Arenes Using Boron Triiodide. <i>Organic Letters</i> , 2020 , 22, 700-704	6.2	12
62	Röntgenbild: Solvent-Vapor-Induced Reversible Single-Crystal-to-Single-Crystal Transformation of a Triphosphaazatriangulene-Based Metal-Organic Framework (Angew. Chem. 4/2020). <i>Angewandte Chemie</i> , 2020 , 132, 1760-1760	3.6	
61	Solvent-Vapor-Induced Reversible Single-Crystal-to-Single-Crystal Transformation of a Triphosphaazatriangulene-Based Metal-Organic Framework. <i>Angewandte Chemie</i> , 2020 , 132, 1451-1455	3.6	2
60	Solvent-Vapor-Induced Reversible Single-Crystal-to-Single-Crystal Transformation of a Triphosphaazatriangulene-Based Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1435-1439	16.4	23
59	Solution-Processable Pure Green Thermally Activated Delayed Fluorescence Emitter Based on the Multiple Resonance Effect. <i>Advanced Materials</i> , 2020 , 32, e2004072	24	104
58	Iron-Catalyzed Cross Coupling of Aryl Chlorides with Alkyl Grignard Reagents: Synthetic Scope and FeII/FeIV Mechanism Supported by X-ray Absorption Spectroscopy and Density Functional Theory Calculations. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 381-390	5.1	11

57	Tetracoordinate Boron-Fused Double [5]Helicenes as Cathode Active Materials for Lithium Batteries. <i>Organic Letters</i> , 2019 , 21, 1770-1773	6.2	16
56	Narrowband deep-blue organic light-emitting diode featuring an organoboron-based emitter. <i>Nature Photonics</i> , 2019 , 13, 678-682	33.9	390
55	Multiple Resonance Effect-Induced Sky-Blue Thermally Activated Delayed Fluorescence with a Narrow Emission Band. <i>Organic Letters</i> , 2019 , 21, 9311-9314	6.2	91
54	Synthesis of Tetracoordinate Boron-Fused Benzoaceanthrylene Analogs via Tandem Electrophilic C-H Borylation. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1657-1661	4.5	7
53	Multiple heteroatom substitution to graphene nanoribbon. <i>Science Advances</i> , 2018 , 4, eaar7181	14.3	105
52	High-efficiency ultrapure green organic light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 704-709	7.9	47
51	One-Shot Multiple Borylation toward BN-Doped Nanographenes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1195-1198	16.4	221
50	Stacked Polymer Consisting of a Pseudo[2.2]Paracyclophane Skeleton. <i>Polymers</i> , 2018 , 10,	4.5	3
49	Four-Step Synthesis of BN-Embedded Corannulene. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13562-13565	16.4	70
48	Triangulene-based Efficient Exciton Blocking Material for Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2018 , 47, 920-922	1.7	5
47	5,9-Dioxo-13b-Oxophosphanaphtho[3,2,1-de]anthracenes Prepared by Tandem Phospha-Friedel-Crafts Reaction as Hole-/Exciton-Blocking Materials for OLEDs. <i>Organometallics</i> , 2017 , 36, 2622-2631	3.8	7
46	Light Amplification in Molecules Exhibiting Thermally Activated Delayed Fluorescence. <i>Advanced Optical Materials</i> , 2017 , 5, 1700051	8.1	63
45	Divergent Synthesis of Heteroatom-Centered 4,8,12-Triazatriangulenes. <i>Angewandte Chemie</i> , 2017 , 129, 5169-5172	3.6	26
44	Divergent Synthesis of Heteroatom-Centered 4,8,12-Triazatriangulenes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5087-5090	16.4	93
43	Reaktionsschema: Divergent Synthesis of Heteroatom-Centered 4,8,12-Triazatriangulenes (Angew. Chem. 18/2017). <i>Angewandte Chemie</i> , 2017 , 129, 5214-5214	3.6	
42	Ultrapure Blue Thermally Activated Delayed Fluorescence Molecules: Efficient HOMO-LUMO Separation by the Multiple Resonance Effect. <i>Advanced Materials</i> , 2016 , 28, 2777-81	24	651
41	Synthesis of Boronate-Based Benzo[fg]tetracene and Benzo[hi]hexacene via Demethylative Direct Borylation. <i>Chemistry - A European Journal</i> , 2016 , 22, 11574-7	4.8	71
40	Two-Step Synthesis of Boron-Fused Double Helicenes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5210-3	16.4	141

- 39 Synthesis of 2,7-Disubstituted 5,10-Diaryl-5,10-dihydrophenazines via Iron-Catalyzed Intramolecular Ring-Closing C-H Amination. *Heterocycles*, **2015**, 90, 893 0.8 10
- 38 Iron Fluoride/N-Heterocyclic Carbene Catalyzed Cross Coupling between Deactivated Aryl Chlorides and Alkyl Grignard Reagents with or without β -Hydrogens. *Synthesis*, **2015**, 47, 1733-1740 2.9 27
- 37 Synthesis of Boron-Doped Polycyclic Aromatic Hydrocarbons by Tandem Intramolecular Electrophilic Arene Borylation. *Organic Letters*, **2015**, 17, 6158-61 6.2 68
- 36 Iron-catalyzed Suzuki-Miyaura Coupling Reaction of Unactivated Alkyl Halides with Lithium Alkynylborates. *Chemistry Letters*, **2015**, 44, 486-488 1.7 27
- 35 Investigation of Organoiron Catalysis in Kumada-Tamao-Corriu-Type Cross-Coupling Reaction Assisted by Solution-Phase X-ray Absorption Spectroscopy. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 410-418 5.1 38
- 34 One-Step Borylation of 1,3-Diaryloxybenzenes Towards Efficient Materials for Organic Light-Emitting Diodes. *Angewandte Chemie - International Edition*, **2015**, 54, 13581-5 16.4 204
- 33 Iron-catalyzed diboration and carboboration of alkynes. *Chemistry - A European Journal*, **2015**, 21, 4257-61 86
- 32 Triplet-Energy Control of Polycyclic Aromatic Hydrocarbons by BN Replacement: Development of Ambipolar Host Materials for Phosphorescent Organic Light-Emitting Diodes. *Chemistry of Materials*, **2014**, 26, 6265-6271 9.6 103
- 31 Construction of a highly distorted benzene ring in a double helicene. *Angewandte Chemie - International Edition*, **2014**, 53, 14074-6 16.4 88
- 30 DFT study of a 5-endo-trig-type cyclization of 3-alkenoic acids by using Pd-spiro-bis(isoxazoline) as catalyst: importance of the rigid spiro framework for both selectivity and reactivity. *Chemistry - A European Journal*, **2013**, 19, 9518-25 4.8 14
- 29 Azaboradibenzo[6]helicene: carrier inversion induced by helical homochirality. *Journal of the American Chemical Society*, **2012**, 134, 19600-3 16.4 196
- 28 Iron-catalyzed aromatic amination for nonsymmetrical triarylamine synthesis. *Journal of the American Chemical Society*, **2012**, 134, 20262-5 16.4 56
- 27 Iron promoted conjugate addition: implication of the six-centered mechanism based on the isolation of the iron-enolate intermediate. *Chemical Communications*, **2012**, 48, 12231-3 5.8 8
- 26 Stereospecific cross-coupling between alkenylboronates and alkyl halides catalyzed by iron-bisphosphine complexes. *Journal of Organic Chemistry*, **2012**, 77, 1168-73 4.2 87
- 25 Cross-coupling of non-activated chloroalkanes with aryl Grignard reagents in the presence of iron/N-heterocyclic carbene catalysts. *Organic Letters*, **2012**, 14, 1066-9 6.2 115
- 24 Iron-catalyzed alkyl-alkyl Suzuki-Miyaura coupling. *Angewandte Chemie - International Edition*, **2012**, 51, 8834-7 16.4 143
- 23 Kumada-Tamao-Corriu Coupling of Alkyl Halides Catalyzed by an Iron-Bisphosphine Complex. *Chemistry Letters*, **2011**, 40, 1030-1032 1.7 79
- 22 Tandem phospho-Friedel-Crafts reaction toward curved β -conjugated frameworks with a phosphorus ring junction. *Organic Letters*, **2011**, 13, 2130-3 6.2 61

21	Tuning chemoselectivity in iron-catalyzed Sonogashira-type reactions using a bisphosphine ligand with peripheral steric bulk: selective alkynylation of nonactivated alkyl halides. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10973-6	16.4	131
20	Synthesis of BN-fused polycyclic aromatics via tandem intramolecular electrophilic arene borylation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18614-7	16.4	248
19	Transition-metal-free electrophilic amination between aryl Grignard reagents and N-chloroamines. <i>Organic Letters</i> , 2010 , 12, 1516-9	6.2	99
18	Nickel-catalyzed alkenylative cross-coupling reaction of alkyl sulfides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13117-9	16.4	37
17	Iron-catalyzed Suzuki-Miyaura coupling of alkyl halides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10674-6	16.4	264
16	Highly selective biaryl cross-coupling reactions between aryl halides and aryl Grignard reagents: a new catalyst combination of N-heterocyclic carbenes and iron, cobalt, and nickel fluorides. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11949-63	16.4	278
15	Effect of TMEDA on iron-catalyzed coupling reactions of ArMgX with alkyl halides. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6078-9	16.4	205
14	Laterally mobile, functionalized self-assembled monolayers at the fluoros-aqueous interface in a plug-based microfluidic system: characterization and testing with membrane protein crystallization. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6042-3	16.4	46
13	Iron-catalyzed Negishi coupling toward an effective olefin synthesis. <i>Organic Letters</i> , 2009 , 11, 4496-9	6.2	78
12	Iron-catalysed fluoroaromatic coupling reactions under catalytic modulation with 1,2-bis(diphenylphosphino)benzene. <i>Chemical Communications</i> , 2009 , 1216-8	5.8	87
11	Diastereoselective addition of zincated hydrazones to alkenylboronates and stereospecific trapping of boron/zinc bimetallic intermediates by carbon electrophiles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15688-701	16.4	25
10	Iron-catalyzed enyne cross-coupling reaction. <i>Organic Letters</i> , 2008 , 10, 5341-4	6.2	81
9	Regioselective alkylation of ketones with alkyl chlorides and fluorides via highly nucleophilic magnesium enamides. <i>Tetrahedron</i> , 2007 , 63, 8440-8448	2.4	9
8	Iron-catalyzed selective biaryl coupling: remarkable suppression of homocoupling by the fluoride anion. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9844-5	16.4	267
7	Indium-catalyzed 2-alkenylation of 1,3-dicarbonyl compounds with unactivated alkynes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5264-71	16.4	102
6	Microgram-scale testing of reaction conditions in solution using nanoliter plugs in microfluidics with detection by MALDI-MS. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2518-9	16.4	163
5	Alkylation of magnesium enamide with alkyl chlorides and fluorides. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14192-3	16.4	36
4	Sequential coupling of zincated hydrazone, alkenylboronate, and electrophile that creates several contiguous stereogenic centers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14344-5	16.4	22

- 3 Alpha-alkylation of ketones by addition of zinc enamides to unactivated olefins. *Journal of the American Chemical Society*, **2004**, 126, 11820-5 16.4 40
- 2 Enantioselective synthesis of alpha-substituted ketones by asymmetric addition of chiral zinc enamides to 1-alkenes. *Journal of the American Chemical Society*, **2003**, 125, 6362-3 16.4 49
- 1 Regioselective allylzincation of alkenylboronate. *Organic Letters*, **2001**, 3, 3137-40 6.2 29