

Takuji Hatakeyama

List of Publications by Year in descending order

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76
papers

9,488
citations

50170

46
h-index

71532

76
g-index

80
all docs

80
docs citations

80
times ranked

5259
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrapure Blue Thermally Activated Delayed Fluorescence Molecules: Efficient HOMO–LUMO Separation by the Multiple Resonance Effect. <i>Advanced Materials</i> , 2016, 28, 2777-2781.	11.1	1,177
2	Narrowband deep-blue organic light-emitting diode featuring an organoboron-based emitter. <i>Nature Photonics</i> , 2019, 13, 678-682.	15.6	855
3	Stable pure-blue hyperfluorescence organic light-emitting diodes with high-efficiency and narrow emission. <i>Nature Photonics</i> , 2021, 15, 203-207.	15.6	449
4	One-Shot Multiple Borylation toward BN-Doped Nanographenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 1195-1198.	6.6	380
5	One-Step Borylation of 1,3-Diaryloxybenzenes Towards Efficient Materials for Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13581-13585.	7.2	322
6	Highly Selective Biaryl Cross-Coupling Reactions between Aryl Halides and Aryl Grignard Reagents: A New Catalyst Combination of <i>N</i> -Heterocyclic Carbenes and Iron, Cobalt, and Nickel Fluorides. <i>Journal of the American Chemical Society</i> , 2009, 131, 11949-11963.	6.6	298
7	Iron-Catalyzed Suzuki–Miyaura Coupling of Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2010, 132, 10674-10676.	6.6	298
8	Synthesis of BN-Fused Polycyclic Aromatics via Tandem Intramolecular Electrophilic Arene Borylation. <i>Journal of the American Chemical Society</i> , 2011, 133, 18614-18617.	6.6	284
9	Iron-Catalyzed Selective Biaryl Coupling: Remarkable Suppression of Homocoupling by the Fluoride Anion. <i>Journal of the American Chemical Society</i> , 2007, 129, 9844-9845.	6.6	281
10	Solution-Processable Pure Green Thermally Activated Delayed Fluorescence Emitter Based on the Multiple Resonance Effect. <i>Advanced Materials</i> , 2020, 32, e2004072.	11.1	254
11	Azaboradibenzo[6]helicene: Carrier Inversion Induced by Helical Homochirality. <i>Journal of the American Chemical Society</i> , 2012, 134, 19600-19603.	6.6	231
12	Effect of TMEDA on Iron-Catalyzed Coupling Reactions of ArMgX with Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2009, 131, 6078-6079.	6.6	216
13	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.	7.2	184
14	Two-Step Synthesis of Boron-Fused Double Helicenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 5210-5213.	6.6	181
15	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, 2518-2519.	6.6	175
16	Iron-Catalyzed Alkyl–Alkyl Suzuki–Miyaura Coupling. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8834-8837.	7.2	164
17	Multiple Resonance Effect-Induced Sky-Blue Thermally Activated Delayed Fluorescence with a Narrow Emission Band. <i>Organic Letters</i> , 2019, 21, 9311-9314.	2.4	157
18	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17910-17914.	7.2	152

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19	Multiple heteroatom substitution to graphene nanoribbon. <i>Science Advances</i> , 2018, 4, eaar7181.	4.7	151
20	Divergent Synthesis of Heteroatom-Centered 4,8,12-Triazatriangulenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5087-5090.	7.2	142
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, 10973-10976.	7.2	139
22	One-Shot Synthesis of Expanded Heterohelicene Exhibiting Narrowband Thermally Activated Delayed Fluorescence. <i>Journal of the American Chemical Society</i> , 2022, 144, 106-112.	6.6	133
23	Triplet-Energy Control of Polycyclic Aromatic Hydrocarbons by BN Replacement: Development of Ambipolar Host Materials for Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2014, 26, 6265-6271.	3.2	131
24	Cross-Coupling of Non-activated Chloroalkanes with Aryl Grignard Reagents in the Presence of Iron/ <i>N</i> -Heterocyclic Carbene Catalysts. <i>Organic Letters</i> , 2012, 14, 1066-1069.	2.4	124
25	Indium-Catalyzed 2-Alkenylation of 1,3-Dicarbonyl Compounds with Unactivated Alkynes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5264-5271.	6.6	110
26	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.	11.1	109
27	Transition-Metal-Free Electrophilic Amination between Aryl Grignard Reagents and <i>N</i> -Chloroamines. <i>Organic Letters</i> , 2010, 12, 1516-1519.	2.4	108
28	Construction of a Highly Distorted Benzene Ring in a Double Helicene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14074-14076.	7.2	104
29	Four-Step Synthesis of $B_{22}N_{22}$ -Embedded Corannulene. <i>Journal of the American Chemical Society</i> , 2018, 140, 13562-13565.	6.6	104
30	Iron-Catalyzed Diboration and Carboboration of Alkynes. <i>Chemistry - A European Journal</i> , 2015, 21, 4257-4261.	1.7	103
31	Stereospecific Cross-Coupling between Alkenylboronates and Alkyl Halides Catalyzed by Iron-Bisphosphine Complexes. <i>Journal of Organic Chemistry</i> , 2012, 77, 1168-1173.	1.7	102
32	Iron-catalysed fluoroaromatic coupling reactions under catalytic modulation with 1,2-bis(diphenylphosphino)benzene. <i>Chemical Communications</i> , 2009, , 1216.	2.2	94
33	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.	4.0	94
34	Synthesis of Boron-Doped Polycyclic Aromatic Hydrocarbons by Tandem Intramolecular Electrophilic Arene Borylation. <i>Organic Letters</i> , 2015, 17, 6158-6161.	2.4	93
35	Iron-Catalyzed Enyne Cross-Coupling Reaction. <i>Organic Letters</i> , 2008, 10, 5341-5344.	2.4	91
36	Synthesis of Boronate-Based Benzo[<i>fg</i>]tetracene and Benzo[<i>hi</i>]hexacene via Demethylative Direct Borylation. <i>Chemistry - A European Journal</i> , 2016, 22, 11574-11577.	1.7	90

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37	Iron-Catalyzed Negishi Coupling Toward an Effective Olefin Synthesis. <i>Organic Letters</i> , 2009, 11, 4496-4499.	2.4	86
38	Kumada-Tamagaki-Corriu Coupling of Alkyl Halides Catalyzed by an Iron-Bisphosphine Complex. <i>Chemistry Letters</i> , 2011, 40, 1030-1032.	0.7	86
39	Light Amplification in Molecules Exhibiting Thermally Activated Delayed Fluorescence. <i>Advanced Optical Materials</i> , 2017, 5, 1700051.	3.6	84
40	Tandem Phospho-Friedel-Crafts Reaction toward Curved π -Conjugated Frameworks with a Phosphorus Ring Junction. <i>Organic Letters</i> , 2011, 13, 2130-2133.	2.4	68
41	Iron-Catalyzed Aromatic Amination for Nonsymmetrical Triarylamine Synthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 20262-20265.	6.6	67
42	Development of Pure Green Thermally Activated Delayed Fluorescence Material by Cyano Substitution. <i>Advanced Materials</i> , 2022, 34, .	11.1	62
43	High-efficiency ultrapure green organic light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2018, 2, 704-709.	3.2	60
44	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.	1.6	59
45	Enantioselective Synthesis of β -Substituted Ketones by Asymmetric Addition of Chiral Zinc Enamides to 1-Alkenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 6362-6363.	6.6	56
46	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.	2.6	55
47	β -Alkylation of Ketones by Addition of Zinc Enamides to Unactivated Olefins. <i>Journal of the American Chemical Society</i> , 2004, 126, 11820-11825.	6.6	50
48	Laterally Mobile, Functionalized Self-Assembled Monolayers at the Fluorous-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, 6042-6043.	6.6	50
49	Investigation of Organoiron Catalysis in Kumada-Tamagaki-Corriu-Type Cross-Coupling Reaction Assisted by Solution-Phase X-ray Absorption Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 410-418.	2.0	46
50	Nickel-Catalyzed Alkenylative Cross-Coupling Reaction of Alkyl Sulfides. <i>Journal of the American Chemical Society</i> , 2010, 132, 13117-13119.	6.6	45
51	Alkylation of Magnesium Enamide with Alkyl Chlorides and Fluorides. <i>Journal of the American Chemical Society</i> , 2005, 127, 14192-14193.	6.6	44
52	Divergent Synthesis of Heteroatom-Centered 4,8,12-Triazatriangulenes. <i>Angewandte Chemie</i> , 2017, 129, 5169-5172.	1.6	42
53	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.	7.2	40
54	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. <i>Angewandte Chemie</i> , 2021, 133, 18054-18058.	1.6	39

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55	Iron Fluoride/N-Heterocyclic Carbene Catalyzed Cross Coupling between Deactivated Aryl Chlorides and Alkyl Grignard Reagents with or without β -Hydrogens. <i>Synthesis</i> , 2015, 47, 1733-1740.	1.2	35
56	Regioselective Allylzincation of Alkenylboronate. <i>Organic Letters</i> , 2001, 3, 3137-3140.	2.4	33
57	Sequential Coupling of Zincated Hydrazone, Alkenylboronate, and Electrophile That Creates Several Contiguous Stereogenic Centers. <i>Journal of the American Chemical Society</i> , 2004, 126, 14344-14345.	6.6	33
58	Iron-catalyzed Suzuki-Miyaura Coupling Reaction of Unactivated Alkyl Halides with Lithium Alkynylborates. <i>Chemistry Letters</i> , 2015, 44, 486-488.	0.7	32
59	Tetracoordinate Boron-Fused Double [5]Helicenes as Cathode Active Materials for Lithium Batteries. <i>Organic Letters</i> , 2019, 21, 1770-1773.	2.4	30
60	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, 15688-15701.	6.6	28
61	Syntheses and Physical Properties of Cationic BN-Embedded Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12835-12840.	7.2	26
62	Multiple Electrophilic C-H Borylation of Arenes Using Boron Triiodide. <i>Organic Letters</i> , 2020, 22, 700-704.	2.4	24
63	Synthesis of 2,7-Disubstituted 5,10-Diaryl-5,10-dihydrophenazines via Iron-Catalyzed Intramolecular Ring-Closing C-H Amination. <i>Heterocycles</i> , 2015, 90, 893.	0.4	16
64	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.	2.0	16
65	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. <i>Chemistry - A European Journal</i> , 2013, 19, 9518-9525.	1.7	15
66	Regioselective α -alkylation of ketones with alkyl chlorides and fluorides via highly nucleophilic magnesium enamides. <i>Tetrahedron</i> , 2007, 63, 8440-8448.	1.0	12
67	Syntheses and Physical Properties of Cationic BN-Embedded Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2021, 133, 12945-12950.	1.6	11
68	5,9-Dioxo-13b-Oxophosphanaphtho[3,2,1-cd]anthracenes Prepared by Tandem Phospha-Friedel-Crafts Reaction as Hole-/Exciton-Blocking Materials for OLEDs. <i>Organometallics</i> , 2017, 36, 2622-2631.	1.1	9
69	π -Stacked Polymer Consisting of a Pseudo- π -meta-[2.2]Paracyclophane Skeleton. <i>Polymers</i> , 2018, 10, 1140.	2.0	9
70	Synthesis of Tetracoordinate Boron-Fused Benzoaceanthrylene Analogs via Tandem Electrophilic C-H Borylation. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1657-1661.	1.7	9
71	Iron promoted conjugate addition: implication of the six-centered mechanism based on the isolation of the iron-enolate intermediate. <i>Chemical Communications</i> , 2012, 48, 12231.	2.2	8
72	Triangulene-based Efficient Exciton Blocking Material for Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2018, 47, 920-922.	0.7	7

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73	Solventâ€Vaporâ€Induced Reversible Singleâ€Crystalâ€toâ€Singleâ€Crystal Transformation of a Triphosphaazatrianguleneâ€Based Metalâ€Organic Framework. <i>Angewandte Chemie</i> , 2020, 132, 1451-1455.	1.6	5
74	Efficient HOMO-LUMO separation by multiple resonance effect toward ultrapure blue thermally activated delayed fluorescence. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
75	RÃ¼cktitelbild: Divergent Synthesis of Heteroatomâ€Centered 4,8,12â€Triazatriangulenes (<i>Angew. Chem.</i>) Tj ETQg1 1 0.784314 rgB	1.6	0
76	RÃ¼cktitelbild: Solventâ€Vaporâ€Induced Reversible Singleâ€Crystalâ€toâ€Singleâ€Crystal Transformation of a Triphosphaazatrianguleneâ€Based Metalâ€Organic Framework (<i>Angew. Chem.</i> 4/2020). <i>Angewandte Chemie</i> , 2020, 132, 1760-1760.	1.6	0