

Atsushi Wakamiya

List of Publications by Year in descending order

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208
papers

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23500

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107
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231
all docs

231
docs citations

231
times ranked

12043
citing authors

#	ARTICLE	IF	CITATIONS
1	Purely organic electroluminescent material realizing 100% conversion from electricity to light. Nature Communications, 2015, 6, 8476.	5.8	799
2	Photocarrier Recombination Dynamics in Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ for Solar Cell Applications. Journal of the American Chemical Society, 2014, 136, 11610-11613.	6.6	701
3	Boron as a key component for new π -electron materials. Pure and Applied Chemistry, 2006, 78, 1413-1424.	0.9	386
4	3-Boryl-2,2'-bithiophene as a Versatile Core Skeleton for Full-Color Highly Emissive Organic Solids. Angewandte Chemie - International Edition, 2007, 46, 4273-4276.	7.2	355
5	Dynamic Optical Properties of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Single Crystals As Revealed by One- and Two-Photon Excited Photoluminescence Measurements. Journal of the American Chemical Society, 2015, 137, 10456-10459.	6.6	335
6	Highly Emissive Organic Solids Containing 2,5-Diboryl-1,4-phenylene Unit. Journal of the American Chemical Society, 2006, 128, 15934-15935.	6.6	306
7	Triarylboron-Based Fluorescent Organic Light-Emitting Diodes with External Quantum Efficiencies Exceeding 20%. Angewandte Chemie - International Edition, 2015, 54, 15231-15235.	7.2	285
8	Reproducible Fabrication of Efficient Perovskite-based Solar Cells: X-ray Crystallographic Studies on the Formation of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Layers. Chemistry Letters, 2014, 43, 711-713.	0.7	284
9	Planarized Triarylboranes: Stabilization by Structural Constraint and Their Plane-to-Bowl Conversion. Journal of the American Chemical Society, 2012, 134, 4529-4532.	6.6	283
10	Intramolecular B-N Coordination as a Scaffold for Electron-Transporting Materials: Synthesis and Properties of Boryl-Substituted Thienylthiazoles. Angewandte Chemie - International Edition, 2006, 45, 3170-3173.	7.2	282
11	Hole-Transporting Materials with a Two-Dimensionally Expanded π -System around an Azulene Core for Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 15656-15659.	6.6	271
12	Near-band-edge optical responses of solution-processed organic-inorganic hybrid perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ on mesoporous TiO_2 electrodes. Applied Physics Express, 2014, 7, 032302.	1.1	267
13	Designs of Functional π -Electron Materials based on the Characteristic Features of Boron. Bulletin of the Chemical Society of Japan, 2015, 88, 1357-1377.	2.0	224
14	Sn(IV)-free tin perovskite films realized by in situ Sn(0) nanoparticle treatment of the precursor solution. Nature Communications, 2020, 11, 3008.	5.8	196
15	Pentaindenocorannulene and Tetraindenocorannulene: A New Aromatic Hydrocarbon π -Systems with Curvatures Surpassing That of C_{60} . Journal of the American Chemical Society, 2007, 129, 484-485.	6.6	195
16	Optimized carrier extraction at interfaces for 23.6% efficient tin-lead perovskite solar cells. Energy and Environmental Science, 2022, 15, 2096-2107.	15.6	172
17	Photoelectronic Responses in Solution-Processed Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ Solar Cells Studied by Photoluminescence and Photoabsorption Spectroscopy. IEEE Journal of Photovoltaics, 2015, 5, 401-405.	1.5	170
18	Aromatic π -Systems More Curved Than C_{60} . The Complete Family of All Indenocorannulenes Synthesized by Iterative Microwave-Assisted Intramolecular Arylations. Journal of the American Chemical Society, 2009, 131, 10537-10545.	6.6	167

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19	Highly Efficient and Stable Perovskite Solar Cells by Interfacial Engineering Using Solution-Processed Polymer Layer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1562-1568.	1.5	166
20	General Synthesis of Thiophene and Selenophene-Based Heteroacenes. <i>Organic Letters</i> , 2005, 7, 5301-5304.	2.4	163
21	Kinetically stabilized dibenzoborole as an electron-accepting building unit. <i>Chemical Communications</i> , 2008, , 579-581.	2.2	157
22	Synthesis and Structural Characterization of Pentaarylbaboroles and Their Dianions. <i>Organometallics</i> , 2008, 27, 3496-3501.	1.1	133
23	Benzene-fused BODIPY and fully-fused BODIPY dimer: impacts of the ring-fusing at the b bond in the BODIPY skeleton. <i>Chemical Science</i> , 2013, 4, 1002-1007.	3.7	132
24	Ladder Oligo(p-phenylenevinylene)s with Silicon and Carbon Bridges. <i>Journal of the American Chemical Society</i> , 2005, 127, 1638-1639.	6.6	122
25	Photon Emission and Reabsorption Processes in $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Single Crystals Revealed by Time-Resolved Two-Photon-Excitation Spectroscopy. <i>Physical Review Applied</i> , 2017, 7, .	1.5	116
26	Synthesis of a distinct water dimer inside fullerene C70. <i>Nature Chemistry</i> , 2016, 8, 435-441.	6.6	114
27	High Fidelity Self-Sorting Assembling of meso-Cinchomeronimide Appended meso-meso Linked Zn(II) Diporphyrins. <i>Journal of the American Chemical Society</i> , 2006, 128, 7670-7678.	6.6	111
28	Fast Free Carrier Diffusion in $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Single Crystals Revealed by Time-Resolved One- and Two-Photon Excitation Photoluminescence Spectroscopy. <i>Advanced Electronic Materials</i> , 2016, 2, 1500290.	2.6	111
29	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13221-13225.	7.2	111
30	Highly Emissive Poly(aryleneethynylene)s Containing 2,5-Diboryl-1,4-phenylene as a Building Unit. <i>Macromolecules</i> , 2007, 40, 3898-3900.	2.2	108
31	Highly stable perovskite solar cells with an all-carbon hole transport layer. <i>Nanoscale</i> , 2016, 8, 11882-11888.	2.8	107
32	General Synthesis of Extended Fused Oligothiophenes Consisting of an Even Number of Thiophene Rings. <i>Chemistry - A European Journal</i> , 2007, 13, 548-556.	1.7	105
33	A Crystalline Porous Coordination Polymer Decorated with Nitroxyl Radicals Catalyzes Aerobic Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , 2014, 136, 7543-7546.	6.6	105
34	In Situ Solid State Generation of BN_2 -Pyrenes and Electroluminescent Devices. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15074-15078.	7.2	105
35	Highly Emissive Diborylphenylene-Containing Bis(phenylethynyl)benzenes: Structure-Photophysical Property Correlations and Fluoride Ion Sensing. <i>Chemistry - A European Journal</i> , 2009, 15, 10603-10612.	1.7	91
36	Charge Injection Mechanism at Heterointerfaces in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Solar Cells Revealed by Simultaneous Time-Resolved Photoluminescence and Photocurrent Measurements. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 954-960.	2.1	91

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37	Crystal Structures and Spectroscopic Characterization of Radical Cations and Dications of Oligothiophenes Stabilized by Annelation with Bicyclo[2.2.2]octene Units: a Sterically Segregated Cationic Oligothiophenes. <i>Journal of the American Chemical Society</i> , 2004, 126, 3163-3174.	6.6	90
38	Free Excitons and Exciton-Phonon Coupling in CH ₃ NH ₃ Pb ₃ Single Crystals Revealed by Photocurrent and Photoluminescence Measurements at Low Temperatures. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4905-4910.	2.1	88
39	On-Top π -Stacking of Quasiplanar Molecules in Hole-Transporting Materials: Inducing Anisotropic Carrier Mobility in Amorphous Films. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5800-5804.	7.2	87
40	Solvent-Coordinated Tin Halide Complexes as Purified Precursors for Tin-Based Perovskites. <i>ACS Omega</i> , 2017, 2, 7016-7021.	1.6	85
41	Spontaneous Defect Annihilation in CH ₃ NH ₃ Pb ₃ Thin Films at Room Temperature Revealed by Time-Resolved Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 482-486.	2.1	83
42	Single-crystal field-effect transistors of benzoannulated fused oligothiophenes and oligoselenophenes. <i>Applied Physics Letters</i> , 2007, 90, 072102.	1.5	82
43	Intramolecular Reductive Double Cyclization of <i>o</i> -Bis(arylcarbonyl)diphenylacetylenes: Synthesis of Ladder π -Conjugated Skeletons. <i>Organic Letters</i> , 2009, 11, 3076-3079.	2.4	82
44	Ladder Distyrylbenzenes with Silicon and Chalcogen Bridges: A Synthesis, Structures, and Properties. <i>Organic Letters</i> , 2007, 9, 93-96.	2.4	80
45	Free Carriers versus Excitons in CH ₃ NH ₃ Pb ₃ Perovskite Thin Films at Low Temperatures: Charge Transfer from the Orthorhombic Phase to the Tetragonal Phase. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2316-2321.	2.1	79
46	Regioselective Unsymmetrical Tetraallylation of C ₆₀ through Palladium Catalysis. <i>Journal of the American Chemical Society</i> , 2009, 131, 15112-15113.	6.6	77
47	Toward π -Conjugated Molecule Bundles: A Synthesis of a Series of B ₃ , B ₄ , B ₅ -Trianthryl-N, N'-triarylborazines and the Bundle Effects on Their Properties. <i>Journal of the American Chemical Society</i> , 2005, 127, 14859-14866.	6.6	74
48	Synthesis of a Library of Fluorescent 2-Aryl-3-trifluoromethylnaphthofurans from Naphthols by Using a Sequential Pummerer-Annulation/Cross-Coupling Strategy and their Photophysical Properties. <i>Chemistry - A European Journal</i> , 2012, 18, 12690-12697.	1.7	72
49	Synthesis and Properties of Endohedral Aza[60]fullerenes: H ₂ O@C ₅₉ N and H ₂ @C ₅₉ N as Their Dimers and Monomers. <i>Journal of the American Chemical Society</i> , 2016, 138, 4096-4104.	6.6	72
50	Doping Polycyclic Arenes with Nitrogen-Boron-Nitrogen (NBN) Units. <i>Organic Letters</i> , 2018, 20, 6741-6745.	2.4	72
51	Electronic Tuning of Thiazolyl-Capped π -Conjugated Compounds via a Coordination/Cyclization Protocol with B(C ₆ F ₅) ₃ . <i>Organic Letters</i> , 2010, 12, 5470-5473.	2.4	70
52	A B-B Bond-Containing Polycyclic π -Electron System: Dithieno-1,2-dihydro-1,2-diborin and Its Dianion. <i>Journal of the American Chemical Society</i> , 2009, 131, 10850-10851.	6.6	66
53	Ladder Bis-Silicon-Bridged Stilbenes as a New Building Unit for Fluorescent π -Conjugated Polymers. <i>Macromolecules</i> , 2004, 37, 8978-8983.	2.2	63
54	Photo-excitation intensity dependent electron and hole injections from lead iodide perovskite to nanocrystalline TiO ₂ and spiro-OMeTAD. <i>Chemical Communications</i> , 2016, 52, 673-676.	2.2	63

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55	Palladium-Catalyzed Cyclization: Regioselectivity and Structure of Arene-Fused C60 Derivatives. <i>Journal of the American Chemical Society</i> , 2017, 139, 16350-16358.	6.6	63
56	Synthesis, properties, and crystal structures of π -extended double [6]helicenes: contorted multi-dimensional stacking lattice. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4697-4703.	1.5	61
57	Oxygen-Bridged Diphenylnaphthylamine as a Scaffold for Full-Color Circularly Polarized Luminescent Materials. <i>Journal of Organic Chemistry</i> , 2017, 82, 5242-5249.	1.7	60
58	Roles of Polymer Layer in Enhanced Photovoltaic Performance of Perovskite Solar Cells via Interface Engineering. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701256.	1.9	60
59	Synthesis, structures, and photophysical properties of silicon and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π -electron systems. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5365-5377.	0.8	58
60	Interfacial Charge-Carrier Trapping in CH ₃ NH ₃ PbI ₃ -Based Heterolayered Structures Revealed by Time-Resolved Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1972-1977.	2.1	58
61	Synthesis and Properties of Novel Oligothiophenes Surrounded by Bicyclo[2.2.2]octene Frameworks. <i>Journal of Organic Chemistry</i> , 2003, 68, 8305-8314.	1.7	57
62	General Silaindene Synthesis Based on Intramolecular Reductive Cyclization toward New Fluorescent Silicon-Containing π -Electron Materials. <i>Organic Letters</i> , 2004, 6, 3707-3710.	2.4	57
63	4,7-Bis[3-(dimethylboryl)thien-2-yl]benzothiadiazole: Solvato-, Thermo-, and Mechanochromism Based on the Reversible Formation of an Intramolecular B \cdots N Bond. <i>Chemistry - A European Journal</i> , 2017, 23, 3784-3791.	1.7	57
64	Electron-Deficient Tetrabenzo-Fused Pyracylene and Conversions into Curved and Planar π -Systems Having Distinct Emission Behaviors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9308-9312.	7.2	56
65	X-ray observation of a helium atom and placing a nitrogen atom inside He@C60 and He@C70. <i>Nature Communications</i> , 2013, 4, 1554.	5.8	55
66	Constraint-induced structural deformation of planarized triphenylboranes in the excited state. <i>Chemical Science</i> , 2014, 5, 1296-1304.	3.7	54
67	Quantifying Hole Transfer Yield from Perovskite to Polymer Layer: Statistical Correlation of Solar Cell Outputs with Kinetic and Energetic Properties. <i>ACS Photonics</i> , 2016, 3, 1678-1688.	3.2	54
68	Elucidating Mechanisms behind Ambient Storage-Induced Efficiency Improvements in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 925-933.	8.8	52
69	Electronic Modulation of Fused Oligothiophenes by Chemical Oxidation. <i>Organic Letters</i> , 2008, 10, 3393-3396.	2.4	51
70	Expansion of Orifices of Open C ₆₀ Derivatives and Formation of an Open C ₅₉ S Derivative by Reaction with Sulfur. <i>Organic Letters</i> , 2013, 15, 2750-2753.	2.4	50
71	High-order harmonic generation from hybrid organic-inorganic perovskite thin films. <i>APL Materials</i> , 2019, 7, .	2.2	49
72	Excimer emission based on the control of molecular structure and intermolecular interactions. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2784-2792.	2.7	47

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73	Red-emissive Polyphenylated BODIPY Derivatives: Effect of Peripheral Phenyl Groups on the Photophysical and Electrochemical Properties. <i>Chemistry Letters</i> , 2008, 37, 1094-1095.	0.7	46
74	A Purified, Solvent-Intercalated Precursor Complex for Wide-Process-Window Fabrication of Efficient Perovskite Solar Cells and Modules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9389-9393.	7.2	46
75	1,2-Dithiin Annulated with Bicyclo[2.2.2]octene Frameworks. One-Electron and Two-Electron Oxidations and Formation of a Novel 2,3,5,6-Tetrathiabicyclo[2.2.2]oct-7-ene Radical Cation with Remarkable Stability Owing to a Strong Transannular Interaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 15038-15050.	6.6	45
76	Unsymmetric Twofold Scholl Cyclization of a 5,11-Dinaphthyltetracene: Selective Formation of Pentagonal and Hexagonal Rings via Dicationic Intermediates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5082-5086.	7.2	45
77	Minute-Scale Degradation and Shift of Valence-Band Maxima of $(\text{CH}_3)_3\text{NH}_3\text{Sn}_3$ and $(\text{HC}(\text{NH}_2)_2)_2\text{Sn}_3$ Perovskites upon Air Exposure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19650-19656.	1.5	44
78	Planarized B-phenylborataanthracene anions: structural and electronic impacts of coplanar constraint. <i>Chemical Communications</i> , 2012, 48, 10715.	2.2	43
79	Excimer formation in organic emitter films associated with a molecular orientation promoted by steric hindrance. <i>Chemical Communications</i> , 2014, 50, 14145-14148.	2.2	43
80	Design, Synthesis, and Characterization of Functionalized Silepins: High Quantum Yield Blue Emitters. <i>Organometallics</i> , 2011, 30, 1719-1729.	1.1	41
81	Trapping N_2 and CO_2 on the Sub-Nano Scale in the Confined Internal Spaces of Open-Cage C_{60} Derivatives: Isolation and Structural Characterization of the Host-Guest Complexes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14791-14794.	7.2	40
82	A Stable, Soluble, and Crystalline Supramolecular System with a Triplet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4261-4265.	7.2	40
83	Molecular Orientation Change in Naphthalene Diimide Thin Films Induced by Removal of Thermally Cleavable Substituents. <i>Chemistry of Materials</i> , 2019, 31, 1729-1737.	3.2	40
84	Radiative recombination and electron-phonon coupling in lead-free $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3186-3191.	0.9	40
85	Isolation of the simplest hydrated acid. <i>Science Advances</i> , 2017, 3, e1602833.	4.7	39
86	Synthesis of 1-Phospho-2-boraacenaphthenes: Reductive 1,2-Aryl Migration of 1-Diarylboryl-2-dichlorophosphinonaphthalenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10940-10943.	7.2	38
87	Synthesis of Open-Cage Ketolactam Derivatives of Fullerene C_{60} Encapsulating a Hydrogen Molecule. <i>Organic Letters</i> , 2014, 16, 2970-2973.	2.4	38
88	Charge Injection at the Heterointerface in Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ Solar Cells Studied by Simultaneous Microscopic Photoluminescence and Photocurrent Imaging Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3186-3191.	2.1	38
89	Photorefractive Effect in Organic-Inorganic Hybrid Perovskites and Its Application to Optical Phase Shifter. <i>Advanced Optical Materials</i> , 2018, 6, 1701366.	3.6	38
90	Identifying an Optimum Perovskite Solar Cell Structure by Kinetic Analysis: Planar, Mesoporous Based, or Extremely Thin Absorber Structure. <i>ACS Applied Energy Materials</i> , 2018, 1, 3722-3732.	2.5	36

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91	NIR-Absorbing Dye Based on BF ₂ -Bridged Azafulvene Dimer as a Strong Electron-Accepting Unit. <i>Organic Letters</i> , 2018, 20, 5135-5138.	2.4	36
92	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. <i>Angewandte Chemie</i> , 2018, 130, 13405-13409.	1.6	36
93	Materials Chemistry Approach for Efficient Lead-Free Tin Halide Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3794-3804.	2.0	36
94	Mixed lead-tin perovskite films with $>7 \mu\text{s}$ charge carrier lifetimes realized by maltol post-treatment. <i>Chemical Science</i> , 2021, 12, 13513-13519.	3.7	36
95	Enhancing the Hot-Phonon Bottleneck Effect in a Metal Halide Perovskite by Terahertz Phonon Excitation. <i>Physical Review Letters</i> , 2021, 126, 077401.	2.9	34
96	Highly Electron-Donating 3,3'-Diaryl-1,1'-bi(isobenzofuran)s Synthesized by Photochemical Exocyclic [2 + 2] Cycloaddition. <i>Organic Letters</i> , 2008, 10, 3591-3594.	2.4	33
97	Site-selective sequential coupling reactions controlled by Electrochemical Reaction Site Switching: a straightforward approach to 1,4-bis(diaryl)buta-1,3-diyne. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9562.	1.5	33
98	Palladium-catalyzed tetraallylation of C ₆₀ with allyl chloride and allylstannane: mechanism, regioselectivity, and enantioselectivity. <i>Chemical Science</i> , 2012, 3, 3474.	3.7	33
99	Experimental Evidence of Localized Shallow States in Orthorhombic Phase of CH ₃ NH ₃ Pb ₃ Perovskite Thin Films Revealed by Photocurrent Beat Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5347-5352.	1.5	33
100	Water Entrapped inside Fullerene Cages: A Potential Probe for Evaluation of Bond Polarization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13109-13113.	7.2	32
101	Photophysics of lead-free tin halide perovskite films and solar cells. <i>APL Materials</i> , 2019, 7, .	2.2	32
102	Iodine-rich mixed composition perovskites optimised for tin (iv) oxide transport layers: the influence of halide ion ratio, annealing time, and ambient air aging on solar cell performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16947-16953.	5.2	32
103	Degradation mechanism of perovskite CH ₃ NH ₃ Pb ₃ diode devices studied by electroluminescence and photoluminescence imaging spectroscopy. <i>Applied Physics Express</i> , 2015, 8, 102302.	1.1	31
104	Highly efficient pyrene blue emitters for OLEDs based on substitution position effect. <i>Dyes and Pigments</i> , 2018, 158, 42-49.	2.0	31
105	Dithieno-Fused Polycyclic Aromatic Hydrocarbon with a Pyracylene Moiety: Strong Antiaromatic Contribution to the Electronic Structure. <i>Organic Letters</i> , 2017, 19, 826-829.	2.4	30
106	Origin of Open-Circuit Voltage Loss in Polymer Solar Cells and Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19988-19997.	4.0	30
107	Synthesis and Structure of an Open-Cage Thiafullerene C ₆₉ S: Reactivity Differences of an Open-Cage C ₇₀ Tetraketone Relative to Its C ₆₀ Analogue. <i>Journal of the American Chemical Society</i> , 2014, 136, 8193-8196.	6.6	29
108	Synthesis and Properties of Dithieno-Fused 1,4-Azaborine Derivatives. <i>Organic Letters</i> , 2018, 20, 7336-7340.	2.4	29

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109	Rh-Catalyzed Dehydrogenative Cyclization Leading to Benzosilolothiophene Derivatives via Siâ€“H/Câ€“H Bond Cleavage. <i>Organic Letters</i> , 2017, 19, 2564-2567.	2.4	28
110	High Bending Durability of Efficient Flexible Perovskite Solar Cells Using Metal Oxide Electron Transport Layer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17088-17095.	1.5	28
111	The first isolation of the hexafluoroantimonate salt of a 1,4-dithiin radical cation stabilized by bicyclo[2.2.2]octene annelation. <i>Tetrahedron Letters</i> , 1999, 40, 4375-4378.	0.7	26
112	Optical characterization of voltage-accelerated degradation in CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Optics Express</i> , 2016, 24, A917.	1.7	26
113	Recycled Utilization of a Nanoporous Au Electrode for Reduced Fabrication Cost of Perovskite Solar Cells. <i>Advanced Science</i> , 2020, 7, 1902474.	5.6	26
114	The stable radical cation of thiophene annelated with bicyclo[2.2.2]octene and its reaction with triplet oxygen to give a protonated cation of 2-butene-1,4-dione derivative. <i>Chemical Communications</i> , 2002, , 1192-1193.	2.2	25
115	Synthesis and photovoltaic properties of acceptor materials based on the dimerization of fullerene C ₆₀ for use in efficient polymer solar cells. <i>Chemical Communications</i> , 2013, 49, 3670.	2.2	25
116	Dâ€“iâ€“A Dyes with an Intramolecular Bâ€“N Coordination Bond as a Key Scaffold for Electronic Structural Tuning and Their Application in Dye-Sensitized Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 441-450.	2.0	25
117	Structureâ€“property relations in Agâ€“Biâ€“I compounds: potential Pb-free absorbers in solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5583-5588.	5.2	25
118	Encapsulation and Dynamic Behavior of Methanol and Formaldehyde inside Openâ€“Cage C ₆₀ Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2758-2762.	7.2	24
119	Antiaromatic Dithieno-1,2-dihydro-1,2-diborin Splits Diatomic Hydrogen. <i>Chemistry Letters</i> , 2017, 46, 1714-1717.	0.7	24
120	Enhanced performance of CH ₃ NH ₃ PbI ₃ -based perovskite solar cells by tuning the electrical and structural properties of mesoporous TiO ₂ layer via Al and Mg doping. <i>Solar Energy</i> , 2019, 177, 374-381.	2.9	24
121	Selective Introduction of Organic Groups to C ₆₀ and C ₇₀ Using Organoboron Compounds and Rhodium Catalyst: A New Synthetic Approach to Organo(hydro)fullerenes. <i>Chemistry - an Asian Journal</i> , 2011, 6, 590-598.	1.7	23
122	Elucidation of Î€“Conjugation Modes in Diareneâ€“Fused 1,2â€“Dihydroâ€“1,2â€“diborin Dianions. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1594-1603.	1.7	23
123	Elucidation of the Structureâ€“Property Relationship of p-Type Organic Semiconductors through Rapid Library Construction via a One-Pot, Suzukiâ€“Miyaura Coupling Reaction. <i>ACS Combinatorial Science</i> , 2014, 16, 494-499.	3.8	23
124	Light Intensity Dependence of Performance of Lead Halide Perovskite Solar Cells. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017, 30, 577-582.	0.1	23
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