

Atsushi Wakamiya

List of Publications by Year in descending order

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208
papers

13,101
citations

23500

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all docs

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docs citations

231
times ranked

12043
citing authors

#	ARTICLE	IF	CITATIONS
1	Starburst Carbazole Derivatives as Efficient Hole Transporting Materials for Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100877.	3.1	6
2	Carrier lifetime measurement of perovskite films by differential microwave photoconductivity decay. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 068001.	0.8	2
3	Optimized carrier extraction at interfaces for 23.6% efficient tin-lead perovskite solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2096-2107.	15.6	172
4	Anti-Stokes photoluminescence from nanostructures embedded in a crystal. <i>Physical Review Materials</i> , 2022, 6, .	0.9	11
5	Multivariate Analysis of Mixed Ternary and Quaternary A-Site Organic Cations in Tin Iodide Perovskite Solar Cells. , 2022, 4, 1124-1131.		9
6	Metal-free ferroelectric halide perovskite exhibits visible photoluminescence correlated with local ferroelectricity. <i>Science Advances</i> , 2022, 8, .	4.7	17
7	Operational stability, low light performance, and long-lived transients in mixed-halide perovskite solar cells with a monolayer-based hole extraction layer. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111885.	3.0	2
8	Progress in recycling organic-inorganic perovskite solar cells for eco-friendly fabrication. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2612-2627.	5.2	17
9	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
10	Near-Ultraviolet Transparent Organic Hole-Transporting Materials Containing Partially Oxygen-Bridged Triphenylamine Skeletons for Efficient Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 1484-1495.	2.5	11
11	Elucidating Mechanisms behind Ambient Storage-Induced Efficiency Improvements in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 925-933.	8.8	52
12	Formation of <i>trans</i> -Poly(thienylenevinylene) Thin Films by Solid-State Thermal Isomerization. <i>Chemistry of Materials</i> , 2021, 33, 5631-5638.	3.2	2
13	Ultrastrong coupling between THz phonons and photons caused by an enhanced vacuum electric field. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
14	Immediate and Temporal Enhancement of Power Conversion Efficiency in Surface-Passivated Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39178-39185.	4.0	10
15	Mixed lead-tin perovskite films with $>7 \hat{1}/4s$ charge carrier lifetimes realized by maltol post-treatment. <i>Chemical Science</i> , 2021, 12, 13513-13519.	3.7	36
16	Ag-(Bi, Sb, In, Ga)-I Solar Cells: Impacts of Elemental Composition and Additives on the Charge Carrier Dynamics and Crystal Structures. <i>ACS Applied Energy Materials</i> , 2020, 3, 8224-8232.	2.5	16
17	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
18	How the Mixed Cations (Guanidium, Formamidinium, and Phenylethylamine) in Tin Iodide Perovskites Affect Their Charge Carrier Dynamics and Solar Cell Characteristics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4043-4051.	2.1	19

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19	Sn(IV)-free tin perovskite films realized by in situ Sn(0) nanoparticle treatment of the precursor solution. <i>Nature Communications</i> , 2020, 11, 3008.	5.8	196
20	Additive-free, Cost-Effective Hole-Transporting Materials for Perovskite Solar Cells Based on Vinyl Triarylaminines. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32994-33003.	4.0	17
21	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
22	Large thermal expansion leads to negative thermo-optic coefficient of halide perovskite $C <sub>H ³ N <sub>H ³ N <sub>H ³ N$	0.9	12
23	Hole-Transporting Polymers Containing Partially Oxygen-Bridged Triphenylamine Units and Their Application for Perovskite Solar Cells. <i>Journal of Photopolymer Science and Technology = [Fotopolyma Konwakai Shi]</i> , 2020, 33, 505-516.	0.1	4
24	Highly Purified Materials for Sn-and Pb-Based Perovskite Solar Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1863-1863.	0.0	0
25	Transparent Hole-Transporting Materials Containing Partially Oxygen-Bridged Triphenylamine Skeletons for Efficient Perovskite Solar Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1867-1867.	0.0	0
26	Photophysics of lead-free tin halide perovskite films and solar cells. <i>APL Materials</i> , 2019, 7, .	2.2	32
27	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
28	How to Make Dense and Flat Perovskite Layers for $>20\%$ Efficient Solar Cells: Oriented, Crystalline Perovskite Intermediates and Their Thermal Conversion. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1972-1979.	2.0	17
29	Propeller-Shaped Aluminum Complexes with an Azaperylene Core in the Ligands. <i>Inorganics</i> , 2019, 7, 109.	1.2	1
30	Phthalimide-Based Transparent Electron-Transport Materials with Oriented Amorphous Structures: Preparation from Solution-Processed Precursor Films. <i>ChemPlusChem</i> , 2019, 84, 1396-1404.	1.3	10
31	Single crystal structure and electroluminescence efficiency of blue fluorescence OLED emitters using triple core chromophores. <i>Organic Electronics</i> , 2019, 73, 261-265.	1.4	3
32	A Purified, Solvent-Intercalated Precursor Complex for Wide-Process Window Fabrication of Efficient Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , 2019, 131, 9489-9493.	1.6	5
33	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
34	Donor-acceptor polymers containing thiazole-fused benzothiadiazole acceptor units for organic solar cells. <i>RSC Advances</i> , 2019, 9, 7107-7114.	1.7	17
35	Direct observation of charge transfer at the interface between PEDOT:PSS and perovskite layers. <i>Applied Physics Express</i> , 2019, 12, 041002.	1.1	12
36	Iodide-Mediated or Iodide-Catalyzed Demethylation and Friedel-Crafts $C-H$ Borylative Cyclization Leading to Thiophene-Fused 1,2-Oxaborine Derivatives. <i>Organic Letters</i> , 2019, 21, 2171-2175.	2.4	14

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37	Planar Perovskite Solar Cells with High Efficiency and Fill Factor Obtained Using Two-Step Growth Process. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15680-15687.	4.0	18
38	High-order harmonic generation from hybrid organic-inorganic perovskite thin films. <i>APL Materials</i> , 2019, 7, .	2.2	49
39	Influence of Alkoxy Chain Length on the Properties of Two-Dimensionally Expanded Azulene-Core-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 6741-6752.	1.7	21
40	Structure-property relations in Ag-Bi-I compounds: potential Pb-free absorbers in solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5583-5588.	5.2	25
41	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
42	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
43	Mechanochemically-generated solid state complex of C ₆₀ -fullerene with tetra-(5,7-diphenyl)calix[4]azulene, NMR, XRD and DFT studies. <i>Supramolecular Chemistry</i> , 2018, 30, 575-582.	1.5	6
44	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
45	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
46	Hole-transporting materials based on thiophene-fused arenes from sulfur-mediated thienannulations. <i>Materials Chemistry Frontiers</i> , 2018, 2, 275-280.	3.2	16
47	Calixazulenes: azulene-based calixarene analogues - an overview and recent supramolecular complexation studies. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2488-2494.	1.3	9
48	Doping Polycyclic Arenes with Nitrogen-Boron-Nitrogen (NBN) Units. <i>Organic Letters</i> , 2018, 20, 6741-6745.	2.4	72
49	Synthesis and Properties of Dithieno-Fused 1,4-Azaborine Derivatives. <i>Organic Letters</i> , 2018, 20, 7336-7340.	2.4	29
50	Excitation Wavelength Dependent Interfacial Charge Transfer Dynamics in a CH ₃ NH ₃ PbI ₃ Perovskite Film. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2018, 31, 633-642.	0.1	10
51	Efficient Synthesis and Properties of [1]Benzothieno[3,2-b]thieno[2,3-d]furans and [1]Benzothieno[3,2-b]thieno[2,3-d]thiophenes. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1635-1641.	1.3	7
52	Highly efficient pyrene blue emitters for OLEDs based on substitution position effect. <i>Dyes and Pigments</i> , 2018, 158, 42-49.	2.0	31
53	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
54	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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55	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
56	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
57	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
58	Radiative recombination and electron-phonon coupling in lead-free $C_3H_3N_3$	0.9	40
59	Photoelectronic properties of lead-free CH ₃ NH ₃ SnI ₃ perovskite solar cell materials and devices. , 2018, , .		0
60	Photon Emission and Reabsorption Processes in $CH_3NH_3PbI_3$ Single Crystals Revealed by Time-Resolved Two-Photon-Ex. <i>Physical Review Applied</i> , 2017, 7, .	1.5	116
61	4,7-Bis[3-(dimethylboryl)thien-2-yl]benzothiadiazole: Solvato-, Thermo-, and Mechanochromism Based on the Reversible Formation of an Intramolecular B-N Bond. <i>Chemistry - A European Journal</i> , 2017, 23, 3784-3791.	1.7	57
62	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
63	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
64	Encapsulation and Dynamic Behavior of Methanol and Formaldehyde inside Open-Cage C ₆₀ Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2758-2762.	7.2	24
65	Cycloaddition of Benzyne to Naphthalene-fused Tetracene with a Twisted π -Surface. <i>Chemistry Letters</i> , 2017, 46, 591-593.	0.7	3
66	D-A Dyes with an Intramolecular B-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
67	Unprecedented photochemical rearrangement of an open-cage C ₆₀ derivative. <i>Chemical Communications</i> , 2017, 53, 1712-1714.	2.2	11
68	Charge Injection Mechanism at Heterointerfaces in CH ₃ NH ₃ 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
69	D-A Dyes with Diketopyrrolopyrrole and Boryl-substituted Thienylthiazole Units for Dye-sensitized Solar Cells with High <i>J_{sc}</i> Values. <i>Chemistry Letters</i> , 2017, 46, 715-718.	0.7	16
70	Oxygen-Bridged Diphenyl-naphthylamine as a Scaffold for Full-Color Circularly Polarized Luminescent Materials. <i>Journal of Organic Chemistry</i> , 2017, 82, 5242-5249.	1.7	60
71	Isolation of the simplest hydrated acid. <i>Science Advances</i> , 2017, 3, e1602833.	4.7	39
72	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

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73	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
74	Fullerene C ₇₀ as a Nanoflask that Reveals the Chemical Reactivity of Atomic Nitrogen. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6488-6491.	7.2	17
75	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
76	Orientation of a Water Molecule: Effects on Electronic Nature of the C ₅₉ N Cage. <i>Journal of Organic Chemistry</i> , 2017, 82, 4465-4469.	1.7	13
77	Synthesis and Structure of an Open-cage C ₆₉ O Derivative. <i>Chemistry Letters</i> , 2017, 46, 543-546.	0.7	5
78	Unsymmetric Twofold Scholl Cyclization of a 5,11â€‘Dinaphthyltetracene: Selective Formation of Pentagonal and Hexagonal Rings via Dicationic Intermediates. <i>Angewandte Chemie</i> , 2017, 129, 5164-5168.	1.6	18
79	Unsymmetric Twofold Scholl Cyclization of a 5,11â€‘Dinaphthyltetracene: Selective Formation of Pentagonal and Hexagonal Rings via Dicationic Intermediates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5082-5086.	7.2	45
80	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
81	Development of Transparent Organic Hole-transporting Materials Using Partially Oxygen-bridged Triphenylamine Skeletons. <i>Chemistry Letters</i> , 2017, 46, 817-820.	0.7	20
82	Structural modification of open-cage fullerene C ₆₀ derivatives having a small molecule inside their cavities. <i>Canadian Journal of Chemistry</i> , 2017, 95, 320-328.	0.6	10
83	Characterization of dye-sensitized solar cells using five pure anthocyanidin 3-O-glucosides possessing different chromophores. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 335, 230-238.	2.0	11
84	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
85	Antiaromatic Dithieno-1,2-dihydro-1,2-diborin Splits Diatomic Hydrogen. <i>Chemistry Letters</i> , 2017, 46, 1714-1717.	0.7	24
86	Solvent-Coordinated Tin Halide Complexes as Purified Precursors for Tin-Based Perovskites. <i>ACS Omega</i> , 2017, 2, 7016-7021.	1.6	85
87	Minute-Scale Degradation and Shift of Valence-Band Maxima of (CH ₃ NH ₃) ₃ SnI ₃ and HC(NH ₂) ₂ SnI ₃ Perovskites upon Air Exposure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19650-19656.	1.5	44
88	Impact of photon recycling on carrier recombination processes in CH ₃ NH ₃ PbBr ₃ single crystals revealed by time-resolved two-photon-excitation microscopy. , 2017, , .		0
89	New blue emitting materials based on triple-core chromophores for organic light-emitting diodes. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 654, 40-46.	0.4	1
90	Synthesis of 8-Aryl-O-methylcyanidins and Their Usage for Dye-Sensitized Solar Cell Devices. <i>International Journal of Molecular Sciences</i> , 2017, 18, 427.	1.8	8

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91	Synthesis of Azole-fused Benzothiadiazoles as Key Units for Functional π -Conjugated Compounds. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 561-568.	0.1	4
92	Light Intensity Dependence of Performance of Lead Halide Perovskite Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 577-582.	0.1	23
93	White emission based on excimer emission control of triple core chromophores. , 2017, , .		0
94	Partially Oxygen-Bridged Triphenylamines with a Quasiplanar Structure as a Key Scaffold for Hole-Transporting Materials. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2016, 74, 1128-1135.	0.0	7
95	Efficient Synthesis of One- and Two-Dimensional Multimetallic Gold-Bis(dithiolene) Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 3228-3232.	1.0	11
96	Co(I)-Mediated Removal of Addends on the C_{60} Cage and Formation of the Monovalent Cobalt Complex $CpCo(CO)(\eta^2-C_{60})$. Organic Letters, 2016, 18, 6348-6351.	2.4	12
97	Optical characterization of voltage-accelerated degradation in $CH_3NH_3PbI_3$ perovskite solar cells. Optics Express, 2016, 24, A917.	1.7	26
98	Highly stable perovskite solar cells with an all-carbon hole transport layer. Nanoscale, 2016, 8, 11882-11888.	2.8	107
99	Interfacial Charge-Carrier Trapping in $CH_3NH_3PbI_3$ -Based Heterolayered Structures Revealed by Time-Resolved Photoluminescence Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 1972-1977.	2.1	58
100	Quantifying Hole Transfer Yield from Perovskite to Polymer Layer: Statistical Correlation of Solar Cell Outputs with Kinetic and Energetic Properties. ACS Photonics, 2016, 3, 1678-1688.	3.2	54
101	Charge Injection at the Heterointerface in Perovskite $CH_3NH_3PbI_3$ Solar Cells Studied by Simultaneous Microscopic Photoluminescence and Photocurrent Imaging Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 3186-3191.	2.1	38
102	Recent progress on perovskite solar cells and our materials science. , 2016, , .		0
103	Near-infrared Emissive Donor-Acceptor-type Molecules Containing Thiazole-fused Benzothiadiazole as an Electron-acceptor Moiety. Chemistry Letters, 2016, 45, 892-894.	0.7	12
104	Water Entrapped inside Fullerene Cages: A Potential Probe for Evaluation of Bond Polarization. Angewandte Chemie - International Edition, 2016, 55, 13109-13113.	7.2	32
105	The Influence of Quasiplanar Structures of Partially Oxygen-Bridged Triphenylamine Dimers on the Properties of Their Bulk Films. Bulletin of the Chemical Society of Japan, 2016, 89, 726-732.	2.0	13
106	Free Excitons and Exciton-Phonon Coupling in $CH_3NH_3PbI_3$ Single Crystals Revealed by Photocurrent and Photoluminescence Measurements at Low Temperatures. Journal of Physical Chemistry Letters, 2016, 7, 4905-4910.	2.1	88
107	Fast Free-Carrier Diffusion in $CH_3NH_3PbBr_3$ Single Crystals Revealed by Time-Resolved One- and Two-Photon Excitation Photoluminescence Spectroscopy. Advanced Electronic Materials, 2016, 2, 1500290.	2.6	111
108	Free Carriers versus Excitons in $CH_3NH_3PbI_3$ Perovskite Thin Films at Low Temperatures: Charge Transfer from the Orthorhombic Phase to the Tetragonal Phase. Journal of Physical Chemistry Letters, 2016, 7, 2316-2321.	2.1	79

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109	Facile Synthesis of 1,4-Bis(diaryl)-1,3-butadiynes Bearing Two Amino Moieties by Electrochemical Reaction—Site Switching, and Their Solvatochromic Fluorescence. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 373-379.	1.3	10
110	Synthesis and Properties of Endohedral Aza[60]fullerenes: $H_{2@C_{59}N}$ 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
111	Experimental Evidence of Localized Shallow States in Orthorhombic Phase of $CH_3NH_3PbI_3$ Perovskite Thin Films Revealed by Photocurrent Beat Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5347-5352.	1.5	33
112	Carrier injection and recombination processes in perovskite $CH_3NH_3PbI_3$ solar cells studied by electroluminescence spectroscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
113	Synthesis of a distinct water dimer inside fullerene C70. <i>Nature Chemistry</i> , 2016, 8, 435-441.	6.6	114
114	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
115	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
116	Designs of Functional π -Electron Materials based on the Characteristic Features of Boron. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1357-1377.	2.0	224
117	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
118	Electron-Deficient Tetrabenzo-Fused Pyraclyene 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
119	Triarylboron-Based Fluorescent Organic Light-Emitting Diodes with External Quantum Efficiencies Exceeding 20%. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15231-15235.	7.2	285
120	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
121	Hole-Transporting Materials with a Two-Dimensionally Expanded π -System around an Azulene Core for Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 15656-15659.	6.6	271
122	Spontaneous Defect Annihilation in $CH_3NH_3PbI_3$ 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
123	Photoluminescence Properties of Solution-Processed Perovskite $CH_3NH_3PbI_3$ Solar Cells Studied by Photoluminescence and Photoabsorption Spectroscopy. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 401-405.	1.5	170
124	1,3,5,7-Tetra(Bpin)azulene by Exhaustive Direct Borylation of Azulene and 5,7-Di(Bpin)azulene by Selective Subsequent Deborylation. <i>Synlett</i> , 2015, 26, 1578-1580.	1.0	15
125	Purely organic electroluminescent material realizing 100% conversion from electricity to light. <i>Nature Communications</i> , 2015, 6, 8476.	5.8	799
126	Dynamic Optical Properties of $CH_3NH_3PbI_3$ Single Crystals As Revealed by One- and Two-Photon Excited Photoluminescence Measurements. <i>Journal of the American Chemical Society</i> , 2015, 137, 10456-10459.	6.6	335

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127	Degradation mechanism of perovskite CH ₃ NH ₃ PbI ₃ diode devices studied by electroluminescence and photoluminescence imaging spectroscopy. <i>Applied Physics Express</i> , 2015, 8, 102302.	1.1	31
128	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
129	Reproducible Fabrication of Efficient Perovskite-based Solar Cells: X-ray Crystallographic Studies on the Formation of CH ₃ NH ₃ PbI ₃ Layers. <i>Chemistry Letters</i> , 2014, 43, 711-713.	0.7	284
130	On-Top 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
131	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
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