Yabing Qi

List of Publications by Year
in descending order

192 papers	18,719 citations	12303 69 h-index	12558 132 g-index
195 all docs	195 docs citations	195 times ranked	15726 citing authors

#	Article	IF	Citations
1	Lithium-ion batteries: outlook on present, future, and hybridized technologies. Journal of Materials Chemistry A, 2019, 7, 2942-2964.	5.2	1,266
2	Thermodynamically stabilized Î²-CsPbI ₃ â€“based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	6.0	963
3	Silver Iodide Formation in Methyl Ammonium Lead Iodide Perovskite Solar Cells with Silver Top Electrodes. Advanced Materials Interfaces, 2015, 2, 1500195.	1.9	646
4	Thermal degradation of CH₃NH₃PbI₃ perovskite into NH₃ and CH₃I gases observed by coupled thermogravimetryâ€“mass spectrometry analysis. Energy and Environmental Science, 2016, 9, 3406-3410.	15.6	616
5	Accelerated degradation of methylammonium lead iodide perovskites induced by exposure to iodine vapour. Nature Energy, 2017, 2, .	19.8	491
6	Progress on Perovskite Materials and Solar Cells with Mixed Cations and Halide Anions. ACS Applied Materials & Interfaces, 2017, 9, 30197-30246.	4.0	453
7	Photodecomposition and thermal decomposition in methylammonium halide lead perovskites and inferred design principles to increase photovoltaic device stability. Journal of Materials Chemistry A, 2018, 6, 9604-9612.	5.2	437
8	Highly stable and efficient all-inorganic lead-free perovskite solar cells with native-oxide passivation. Nature Communications, 2019, 10, 16.	5.8	430
9	Air-Exposure Induced Dopant Redistribution and Energy Level Shifts in Spin-Coated Spiro-MeOTAD Films. Chemistry of Materials, 2015, 27, 562-569.	3.2	357
10	Lead halideâ€“templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. Science, 2021, 372, 1327-1332.	6.0	351
11	Reducing Detrimental Defects for Highâ€Performance Metal Halide Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 6676-6698.	7.2	334
12	Reduction of lead leakage from damaged lead halide perovskite solar modules using self-healing polymer-based encapsulation. Nature Energy, 2019, 4, 585-593.	19.8	327
13	Recent Advances in Spiroâ€MeOTAD Hole Transport Material and Its Applications in Organicâ€“Inorganic Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1700623.	1.9	316
14	High performance perovskite solar cells by hybrid chemical vapor deposition. Journal of Materials Chemistry A, 2014, 2, 18742-18745.	5.2	284
15	A holistic approach to interface stabilization for efficient perovskite solar modules with over 2,000-hour operational stability. Nature Energy, 2020, 5, 596-604.	19.8	274
16	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution forÂHighâ€Stability Allâ€Inorganic Perovskite Solar Cells withÂCarbon Electrodes. Advanced Energy Materials, 2018, 8, 1800504.	10.2	272
17	The Main Progress of Perovskite Solar Cells in 2020â€“2021. Nano-Micro Letters, 2021, 13, 152.	14.4	250
18	Influence of Air Annealing on High Efficiency Planar Structure Perovskite Solar Cells. Chemistry of Materials, 2015, 27, 1597-1603.	3.2	247

#	Article	IF	Citations
19	Advances and challenges to the commercialization of organicâ€“inorganic halide perovskite solar cell technology. Materials Today Energy, 2018, 7, 169-189.	2.5	231
20	Universal energy level tailoring of self-organized hole extraction layers in organic solar cells and organicâ€“inorganic hybrid perovskite solar cells. Energy and Environmental Science, 2016, 9, 932-939.	15.6	218
21	Energy Level Alignment at Interfaces in Metal Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800260.	1.9	215
22	Fabrication of semi-transparent perovskite films with centimeter-scale superior uniformity by the hybrid deposition method. Energy and Environmental Science, 2014, 7, 3989-3993.	15.6	213
23	Organometal halide perovskite thin films and solar cells by vapor deposition. Journal of Materials Chemistry A, 2016, 4, 6693-6713.	5.2	210
24	Highly Efficient Perovskite Solar Cells Enabled by Multiple Ligand Passivation. Advanced Energy Materials, 2020, 10, 1903696.	10.2	205
25	Role of the Dopants on the Morphological and Transport Properties of Spiro-MeOTAD Hole Transport Layer. Chemistry of Materials, 2016, 28, 5702-5709.	3.2	194
26	Flexible and stable high-energy lithium-sulfur full batteries with only 100% oversized lithium. Nature Communications, 2018, 9, 4480.	5.8	193
27	Progress toward Stable Lead Halide Perovskite Solar Cells. Joule, 2018, 2, 1961-1990.	11.7	181
28	Surface and Interface Aspects of Organometal Halide Perovskite Materials and Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 4764-4794.	2.1	177
29	Phase transition induced recrystallization and low surface potential barrier leading to 10.91%-efficient CsPbBr3 perovskite solar cells. Nano Energy, 2019, 65, 104015.	8.2	170
30	Chemical vapor deposition grown formamidinium perovskite solar modules with high steady state power and thermal stability. Journal of Materials Chemistry A, 2016, 4, 13125-13132.	5.2	169
31	Large formamidinium lead trihalide perovskite solar cells using chemical vapor deposition with high reproducibility and tunable chlorine concentrations. Journal of Materials Chemistry A, 2015, 3, 16097-16103.	5.2	165
32	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. Science Advances, 2021, 7, .	4.7	165
33	nâ€Doping of Organic Electronic Materials using Airâ€Stable Organometallics. Advanced Materials, 2012, 24, 699-703.	11.1	163
34	Thermal degradation of formamidinium based lead halide perovskites into <i>sym</i>-triazine and hydrogen cyanide observed by coupled thermogravimetry-mass spectrometry analysis. Journal of Materials Chemistry A, 2019, 7, 16912-16919.	5.2	163
35	Scalable Fabrication of Metal Halide Perovskite Solar Cells and Modules. ACS Energy Letters, 2019, 4, 2147-2167.	8.8	161
36	Highly Efficient and Stable Perovskite Solar Cells via Modification of Energy Levels at the Perovskite/Carbon Electrode Interface. Advanced Materials, 2019, 31, e1804284.	11.1	161

#	Article	IF	Citations
37	Combination of Hybrid CVD and Cation Exchange for Upscaling Csâ€Substituted Mixed Cation Perovskite Solar Cells with High Efficiency and Stability. Advanced Functional Materials, 2018, 28, 1703835.	7.8	158
38	Real-Space Imaging of the Atomic Structure of Organicâ€“Inorganic Perovskite. Journal of the American Chemical Society, 2015, 137, 16049-16054.	6.6	155
39	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. Science Advances, 2017, 3, e1701186.	4.7	146
40	Post-annealing of MAPbI₃ perovskite films with methylamine for efficient perovskite solar cells. Materials Horizons, 2016, 3, 548-555.	6.4	141
41	Improved Efficiency and Stability of Perovskite Solar Cells Induced by Cï£¾O Functionalized Hydrophobic Ammoniumâ€Based Additives. Advanced Materials, 2018, 30, 1703670.	11.1	132
42	Properties and solar cell applications of Pb-free perovskite films formed by vapor deposition. RSC Advances, 2016, 6, 2819-2825.	1.7	131
43	Accelerating hole extraction by inserting 2D Ti₃C₂-MXene interlayer to all inorganic perovskite solar cells with long-term stability. Journal of Materials Chemistry A, 2019, 7, 20597-20603.	5.2	130
44	Smooth perovskite thin films and efficient perovskite solar cells prepared by the hybrid deposition method. Journal of Materials Chemistry A, 2015, 3, 14631-14641.	5.2	126
45	Moisture and Oxygen Enhance Conductivity of LiTFSIâ€Doped Spiroâ€MeOTAD Hole Transport Layer in Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600117.	1.9	123
46	Pinhole-free hole transport layers significantly improve the stability of MAPbI₃-based perovskite solar cells under operating conditions. Journal of Materials Chemistry A, 2015, 3, 15451-15456.	5.2	122
47	Temperature-dependent hysteresis effects in perovskite-based solar cells. Journal of Materials Chemistry A, 2015, 3, 9074-9080.	5.2	121
48	The Influence of Film Morphology in Highâ€Mobility Smallâ€Molecule:Polymer Blend Organic Transistors. Advanced Functional Materials, 2010, 20, 2330-2337.	7.8	120
49	Substantial improvement of perovskite solar cells stability by pinhole-free hole transport layer with doping engineering. Scientific Reports, 2015, 5, 9863.	1.6	119
50	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO₂ Electron Transport Layer. Advanced Functional Materials, 2019, 29, 1806779.	7.8	118
51	Unraveling the Impact of Halide Mixing on Perovskite Stability. Journal of the American Chemical Society, 2019, 141, 3515-3523.	6.6	116
52	Rapid perovskite formation by CH₃NH₂ gas-induced intercalation and reaction of PbI₂. Journal of Materials Chemistry A, 2016, 4, 2494-2500.	5.2	115
53	Methylammonium Lead Bromide Perovskite Light-Emitting Diodes by Chemical Vapor Deposition. Journal of Physical Chemistry Letters, 2017, 8, 3193-3198.	2.1	113
54	Hybrid chemical vapor deposition enables scalable and stable Cs-FA mixed cation perovskite solar modules with a designated area of 91.8 cm² approaching 10% efficiency. Journal of Materials Chemistry A, 2019, 7, 6920-6929.	5.2	112

#	Article	IF	Citations
55	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. Nature Communications, 2018, 9, 3880.	5.8	109
56	Long-life lithium-sulfur batteries with high areal capacity based on coaxial CNTs@TiN-TiO2 sponge. Nature Communications, 2021, 12, 4738.	5.8	109
57	Modification of gold source and drain electrodes by self-assembled monolayer in staggered n- and p-channel organic thin film transistors. Organic Electronics, 2010, 11, 227-237.	1.4	108
58	Perovskite Solar Cellsâ€"Towards Commercialization. ACS Energy Letters, 2017, 2, 1749-1751.	8.8	107
59	Interfacial Modification of Perovskite Solar Cells Using an Ultrathin MAI Layer Leads to Enhanced Energy Level Alignment, Efficiencies, and Reproducibility. Journal of Physical Chemistry Letters, 2017, 8, 3947-3953.	2.1	101
60	Improved SnO₂ Electron Transport Layers Solutionâ€Deposited at Near Room Temperature for Rigid or Flexible Perovskite Solar Cells with High Efficiencies. Advanced Energy Materials, 2019, 9, 1900834.	10.2	100
61	Air-Exposure-Induced Gas-Molecule Incorporation into Spiro-MeOTAD Films. Journal of Physical Chemistry Letters, 2014, 5, 1374-1379.	2.1	96
62	Use of a High Electron-Affinity Molybdenum Dithiolene Complex to p-Dope Hole-Transport Layers. Journal of the American Chemical Society, 2009, 131, 12530-12531.	6.6	91
63	Modulating crystal growth of formamidiniumâ€"caesium perovskites for over 200 cm2 photovoltaic sub-modules. Nature Energy, 2022, 7, 528-536.	19.8	89
64	Progress of Surface Science Studies on ABX₃â€Based Metal Halide Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902726.	10.2	87
65	Solution doping of organic semiconductors using air-stable n-dopants. Applied Physics Letters, 2012, 100, .	1.5	86
66	Carbon-Based Electrode Engineering Boosts the Efficiency of All Low-Temperature-Processed Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 2032-2039.	8.8	79
67	Interface engineering strategies towards Cs₂AgBiBr₆single-crystalline photodetectors with good Ohmic contact behaviours. Journal of Materials Chemistry C, 2020, 8, 276-284.	2.7	78
68	Fully Solutionâ€Processed TCOâ€Free Semitransparent Perovskite Solar Cells for Tandem and Flexible Applications. Advanced Energy Materials, 2018, 8, 1701569.	10.2	77
69	Scalable Fabrication of >90 cm² Perovskite Solar Modules with >1000 h Operational Stability Based on the Intermediate Phase Strategy. Advanced Energy Materials, 2021, 11, 2003712.	10.2	76
70	Electronic contribution to friction on GaAs: An atomic force microscope study. Physical Review B, 2008, 77, .	1.1	75
71	Engineering Interface Structure to Improve Efficiency and Stability of Organometal Halide Perovskite Solar Cells. Journal of Physical Chemistry B, 2018, 122, 511-520.	1.2	68
72	Negligibleâ€Pbâ€Waste and Upscalable Perovskite Deposition Technology for Highâ€Operationalâ€Stability Perovskite Solar Modules. Advanced Energy Materials, 2019, 9, 1803047.	10.2	68

#	Article	IF	Citations
73	High Efficient Hole Extraction and Stable Allâ€Bromide Inorganic Perovskite Solar Cells via Derivativeâ€Phase Gradient Bandgap Architecture. Solar Rrl, 2019, 3, 1900030.	3.1	67
74	How far are we from attaining 10-year lifetime for metal halide perovskite solar cells?. Materials Science and Engineering Reports, 2020, 140, 100545.	14.8	67
75	Recent Progress of Allâ€Bromide Inorganic Perovskite Solar Cells. Energy Technology, 2020, 8, 1900961.	1.8	66
76	A Molybdenum Dithiolene Complex as<i>p</i>-Dopant for Hole-Transport Materials: A Multitechnique Experimental and Theoretical Investigation. Chemistry of Materials, 2010, 22, 524-531.	3.2	65
77	Additives in metal halide perovskite films and their applications in solar cells. Journal of Energy Chemistry, 2020, 46, 215-228.	7.1	64
78	Mechanical and Charge Transport Properties of Alkanethiol Self-Assembled Monolayers on a Au(111) Surface:â€‰ The Role of Molecular Tilt. Langmuir, 2008, 24, 2219-2223.	1.6	62
79	Lowâ€Cost Alternative Highâ€Performance Holeâ€Transport Material for Perovskite Solar Cells and Its Comparative Study with Conventional SPIROâ€OMeTAD. Advanced Electronic Materials, 2017, 3, 1700139.	2.6	60
80	2D materials for conducting holes from grain boundaries in perovskite solar cells. Light: Science and Applications, 2021, 10, 68.	7.7	59
81	Scanning Probe Microscopy Applied to Organicâ€“Inorganic Halide Perovskite Materials and Solar Cells. Small Methods, 2018, 2, 1700295.	4.6	57
82	Research progress on organicâ€“inorganic halide perovskite materials and solar cells. Journal Physics D: Applied Physics, 2018, 51, 093001.	1.3	56
83	Surface Defect Dynamics in Organicâ€“Inorganic Hybrid Perovskites: From Mechanism to Interfacial Properties. ACS Nano, 2019, 13, 12127-12136.	7.3	56
84	Degradation Mechanism and Relative Stability of Methylammonium Halide Based Perovskites Analyzed on the Basis of Acidâ€“Base Theory. ACS Applied Materials & Interfaces, 2019, 11, 12586-12593.	4.0	55
85	Transferrable optimization of spray-coated PbI₂ films for perovskite solar cell fabrication. Journal of Materials Chemistry A, 2017, 5, 5709-5718.	5.2	54
86	Charge transport across metal/molecular (alkyl) monolayer-Si junctions is dominated by the LUMO level. Physical Review B, 2012, 85, .	1.1	51
87	Fabrication of efficient metal halide perovskite solar cells by vacuum thermal evaporation: A progress review. Current Opinion in Electrochemistry, 2018, 11, 130-140.	2.5	51
88	Influence of carrier density on the friction properties of silicon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mi>n</mml:mi></mml:mrow></mml:math>junctions. Physical Review B, 2007, 76, .	1.1	50
89	Surface Species Formed by the Adsorption and Dissociation of Water Molecules on a Ru(0001) Surface Containing a Small Coverage of Carbon Atoms Studied by Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2008, 112, 7445-7454.	1.5	50
90	The presence of CH3NH2 neutral species in organometal halide perovskite films. Applied Physics Letters, 2016, 108, .	1.5	50

#	Article	IF	Citations
91	Two-Dimensional Dionâ€“Jacobson Structure Perovskites for Efficient Sky-Blue Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 908-914.	8.8	49
92	Filled and empty states of alkanethiol monolayer on Au (111): Fermi level asymmetry and implications for electron transport. Chemical Physics Letters, 2011, 511, 344-347.	1.2	46
93	Application of Methylamine Gas in Fabricating Organicâ€“Inorganic Hybrid Perovskite Solar Cells. Energy Technology, 2017, 5, 1750-1761.	1.8	46
94	Atomic-scale view of stability and degradation of single-crystal MAPbBr₃ surfaces. Journal of Materials Chemistry A, 2019, 7, 20760-20766.	5.2	46
95	Robust hole transport material with interface anchors enhances the efficiency and stability of inverted formamidiniumâ€“cesium perovskite solar cells with a certified efficiency of 22.3%. Energy and Environmental Science, 2022, 15, 2567-2580.	15.6	46
96	Hybrid Heterocycle-Containing Electron-Transport Materials Synthesized by Regioselective Suzuki Cross-Coupling Reactions for Highly Efficient Phosphorescent OLEDs with Unprecedented Low Operating Voltage. Chemistry of Materials, 2012, 24, 3817-3827.	3.2	45
97	Scalable solution coating of the absorber for perovskite solar cells. Journal of Energy Chemistry, 2018, 27, 1101-1110.	7.1	44
98	Flat-Lying Semiconductorâ€“Insulator Interfacial Layer in DNTT Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 1833-1840.	4.0	43
99	Engineering Green-to-Blue Emitting CsPbBr₃ Quantum-Dot Films with Efficient Ligand Passivation. ACS Energy Letters, 2019, 4, 2731-2738.	8.8	43
100	Defect Passivation for Perovskite Solar Cells: from Molecule Design to Device Performance. ChemSusChem, 2021, 14, 4354-4376.	3.6	43
101	Heterogeneous FASnI3 Absorber with Enhanced Electric Field for High-Performance Lead-Free Perovskite Solar Cells. Nano-Micro Letters, 2022, 14, 99.	14.4	43
102	Removal of residual compositions by powder engineering for high efficiency formamidinium-based perovskite solar cells with operation lifetime over 2000Âh. Nano Energy, 2021, 87, 106152.	8.2	41
103	Silicon surface passivation by an organic overlayer of 9,10-phenanthrenequinone. Applied Physics Letters, 2010, 96, 222109.	1.5	40
104	Hexaazatriphenylene (HAT) versus triâ€HAT: The Bigger the Better?. Chemistry - A European Journal, 2011, 17, 10312-10322.	1.7	40
105	Up-Scalable Fabrication of SnO2 with Multifunctional Interface for High Performance Perovskite Solar Modules. Nano-Micro Letters, 2021, 13, 155.	14.4	40
106	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. ACS Energy Letters, 2021, 6, 3545-3554.	8.8	39
107	Advances and Obstacles on Perovskite Solar Cell Research from Material Properties to Photovoltaic Function. ACS Energy Letters, 2017, 2, 520-523.	8.8	38
108	Efficient Anti-solvent-free Spin-Coated and Printed Sn-Perovskite Solar Cells with Crystal-Based Precursor Solutions. Matter, 2020, 2, 167-180.	5.0	38

#	Article	IF	Citations
109	Measurement of high carrier mobility in graphene in an aqueous electrolyte environment. Applied Physics Letters, 2016, 109, .	1.5	37
110	Transamidation of dimethylformamide during alkylammonium lead triiodide film formation for perovskite solar cells. Journal of Materials Research, 2017, 32, 45-55.	1.2	37
111	Spin-Coated Crystalline Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2018, 9, 1318-1323.	2.1	37
112	Transition metal speciation as a degradation mechanism with the formation of a solid-electrolyte interphase (SEI) in Ni-rich transition metal oxide cathodes. Journal of Materials Chemistry A, 2018, 6, 14449-14463.	5.2	37
113	Remote doping of a pentacene transistor: Control of charge transfer by molecular-level engineering. Applied Physics Letters, 2010, 97, .	1.5	36
114	The Effect of Impurities on the Impedance Spectroscopy Response of CH₃NH₃PbI₃ Perovskite Solar Cells. Journal of Physical Chemistry C, 2016, 120, 28519-28526.	1.5	35
115	Electrical Transport Properties of Oligothiophene-Based Molecular Films Studied by Current Sensing Atomic Force Microscopy. Nano Letters, 2011, 11, 4107-4112.	4.5	34
116	Rapid hybrid chemical vapor deposition for efficient and hysteresis-free perovskite solar modules with an operation lifetime exceeding 800 hours. Journal of Materials Chemistry A, 2020, 8, 23404-23412.	5.2	34
117	CsPbBrxI3-x thin films with multiple ammonium ligands for low turn-on pure-red perovskite light-emitting diodes. Nano Research, 2021, 14, 191-197.	5.8	34
118	Perovskite solar cells by vapor deposition based and assisted methods. Applied Physics Reviews, 2022, 9, .	5.5	33
119	Influences of geometry of particles on electrorheological fluids. Journal Physics D: Applied Physics, 2002, 35, 2231-2235.	1.3	32
120	Atomic-scale insight into the enhanced surface stability of methylammonium lead iodide perovskite by controlled deposition of lead chloride. Energy and Environmental Science, 2021, 14, 4541-4554.	15.6	31
121	Strategies and methods for fabricating high quality metal halide perovskite thin films for solar cells. Journal of Energy Chemistry, 2021, 60, 300-333.	7.1	31
122	Inverse Growth of Large-Grain-Size and Stable Inorganic Perovskite Micronanowire Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 14185-14194.	4.0	30
123	Dopant interdiffusion effects in n-i-p structured spiro-OMeTAD hole transport layer of organometal halide perovskite solar cells. Organic Electronics, 2016, 31, 71-76.	1.4	29
124	Spectral Stable Blue-Light-Emitting Diodes via Asymmetric Organic Diamine Based Dionâ€"Jacobson Perovskites. Journal of the American Chemical Society, 2021, 143, 19711-19718.	6.6	29
125	In-situ passivation perovskite targeting efficient light-emitting diodes via spontaneously formed silica network. Nano Energy, 2020, 78, 105134.	8.2	28
126	Unclonable Microâ€Texture with Clonable Microâ€Shape towards Rapid, Convenient, and Lowâ€Cost Fluorescent Antiâ€Counterfeiting Labels. Small, 2021, 17, e2100244.	5.2	28

#	Article	IF	Citations
127	Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. Journal of Materials Chemistry C, 2015, 3, 2664-2676.	2.7	26
128	Benchmarking Chemical Stability of Arbitrarily Mixed 3D Hybrid Halide Perovskites for Solar Cell Applications. Small Methods, 2018, 2, 1800242.	4.6	26
129	Significant THz absorption in CH3NH2 molecular defect-incorporated organic-inorganic hybrid perovskite thin film. Scientific Reports, 2019, 9, 5811.	1.6	26
130	Photon Upconverting Solid Films with Improved Efficiency for Endowing Perovskite Solar Cells with Nearâ€Infrared Sensitivity. ChemPhotoChem, 2020, 4, 5271-5278.	1.5	26
131	2D Derivative Phase Induced Growth of 3D All Inorganic Perovskite Microâ€"Nanowire Array Based Photodetectors. Advanced Functional Materials, 2020, 30, 2002526.	7.8	26
132	Organic additive engineering toward efficient perovskite lightâ€emitting diodes. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 1095-1108.	8.5	26
133	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 818-823.	2.1	26
134	Electrical transport and mechanical properties of alkylsilane self-assembled monolayers on silicon surfaces probed by atomic force microscopy. Journal of Chemical Physics, 2009, 130, 114705.	1.2	25
135	High-throughput surface preparation for flexible slot die coated perovskite solar cells. Organic Electronics, 2018, 54, 72-79.	1.4	24
136	Investigation of organic films by atomic force microscopy: Structural, nanotribological and electrical properties. Surface Science Reports, 2011, 66, 379-393.	3.8	23
137	Electrical and optical properties of transparent flexible electrodes: Effects of UV ozone and oxygen plasma treatments. Organic Electronics, 2014, 15, 721-728.	1.4	23
138	The influence of secondary solvents on the morphology of a spiro-MeOTAD hole transport layer for lead halide perovskite solar cells. Journal Physics D: Applied Physics, 2018, 51, 294001.	1.3	23
139	Metal halide perovskite solar cells by modified chemical vapor deposition. Journal of Materials Chemistry A, 2021, 9, 22759-22780.	5.2	22
140	Recent Progress on Metal Halide Perovskite Solar Minimodules. Solar Rrl, 2022, 6, 2100458.	3.1	21
141	Influence of Molecular Ordering on Electrical and Friction Properties of Ï‰-(<i>trans</i>-4-Stilbene)Alkylthiol Self-Assembled Monolayers on Au (111). Langmuir, 2010, 26, 16522-16528.	1.6	19
142	Soluble fullerene derivatives: The effect of electronic structure on transistor performance and air stability. Journal of Applied Physics, 2011, 110, .	1.1	19
143	Progress of All-inorganic Cesium Lead-free Perovskite Solar Cells. Chemistry Letters, 2019, 48, 989-1005.	0.7	19
144	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22513-22519.	4.0	18

#	Article	IF	Citations
145	Elucidating the Mechanism Involved in the Performance Improvement of Lithiumâ€Ion Transition Metal Oxide Battery by Conducting Polymer. Advanced Materials Interfaces, 2019, 6, 1801785.	1.9	18
146	Phase Aggregation Suppression of Homogeneous Perovskites Processed in Ambient Condition toward Efficient Lightâ€Emitting Diodes. Advanced Functional Materials, 2021, 31, 2103399.	7.8	18
147	Electronic structure and band alignment of 9,10-phenanthrenequinone passivated silicon surfaces. Surface Science, 2011, 605, 1308-1312.	0.8	16
148	Stacked-graphene layers as engineered solid-electrolyte interphase (SEI) grown by chemical vapour deposition for lithium-ion batteries. Carbon, 2018, 132, 678-690.	5.4	16
149	Verringerung schÃdlicher Defekte fÃ¼r leistungsstarke Metallhalogenidâ€Perowskitâ€Solarzellen. Angewandte Chemie, 2020, 132, 6740-6764.	1.6	16
150	Synergistic stabilization of CsPbI3 inorganic perovskite via 1D capping and secondary growth. Journal of Energy Chemistry, 2022, 68, 387-392.	7.1	16
151	Surface Termination-Dependent Nanotribological Properties of Single-Crystal MAPbBr₃ Surfaces. Journal of Physical Chemistry C, 2020, 124, 1484-1491.	1.5	15
152	Metal halide perovskite-based flexible tandem solar cells: next-generation flexible photovoltaic technology. Materials Chemistry Frontiers, 2021, 5, 4833-4850.	3.2	15
153	Anisotropy properties of magnetic colloidal materials. Journal Physics D: Applied Physics, 2003, 36, L10-L14.	1.3	14
154	Recent progress on all-inorganic metal halide perovskite solar cells. Materials Today Nano, 2021, 16, 100143.	2.3	13
155	The Impact of Atmosphere on Energetics of Lead Halide Perovskites. Advanced Energy Materials, 2020, 10, 2000908.	10.2	12
156	Investigating lithium metal anodes with nonaqueous electrolytes for safe and high-performance batteries. Sustainable Energy and Fuels, 2022, 6, 954-970.	2.5	11
157	Relative permittivity and Hubbard U of pentacene extracted from scanning tunneling microscopy studies of p-doped films. Chemical Physics Letters, 2010, 495, 212-217.	1.2	10
158	Probing nanotribological and electrical properties of organic molecular films with atomic force microscopy. Scanning, 2010, 32, 257-264.	0.7	10
159	Residual strain reduction leads to efficiency and operational stability improvements in flexible perovskite solar cells. Materials Advances, 2022, 3, 6316-6323.	2.6	10
160	Noncontact to contact tunneling microscopy in self-assembled monolayers of alkylthiols on gold. Journal of Chemical Physics, 2008, 128, 234701.	1.2	8
161	Atomic Scale Investigation of the CuPcâ€“MAPbX₃ Interface and the Effect of Non-Stoichiometric Perovskite Films on Interfacial Structures. ACS Nano, 2021, 15, 14813-14821.	7.3	8
162	Ultra-flat coplanar electrodes for controlled electrical contact of molecular films. Review of Scientific Instruments, 2011, 82, 123901.	0.6	7

#	ARTICLE	IF	CITATIONS
163	Perovskite Solar Cells: Silver Iodide Formation in Methyl Ammonium Lead Iodide Perovskite Solar Cells with Silver Top Electrodes (Adv. Mater. Interfaces 13/2015). Advanced Materials Interfaces, 2015, 2, .	1.9	7
164	Effect of zinc doping on the microstructure in YBCO. Physica C: Superconductivity and Its Applications, 2000, 341-348, 669-670.	0.6	6
165	Observation of chemical separation of In3Sb1Te2 thin film during phase transition. Applied Surface Science, 2014, 292, 986-989.	3.1	6
166	Themed issue on perovskite solar cells: research on metal halide perovskite solar cells towards deeper understanding, upscalable fabrication, long-term stability and Pb-free alternatives. Sustainable Energy and Fuels, 2018, 2, 2378-2380.	2.5	6
167	Band gaps from ring resonators and structural periodicity. Journal Physics D: Applied Physics, 2005, 38, 590-595.	1.3	5
168	Sensitivity to Molecular Order of the Electrical Conductivity in Oligothiophene Monolayer Films. Langmuir, 2013, 29, 1206-1210.	1.6	5
169	Reliability improvement of bulk-heterojunction organic solar cell by using reduced graphene oxide as hole-transport layer. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1873-1876.	0.8	5
170	Large changes of graphene conductance as a function of lattice orientation between stacked layers. Nanotechnology, 2015, 26, 015702.	1.3	5
171	â€œHeat Waveâ€•of Metal Halide Perovskite Solar Cells Continues in Phoenix. ACS Energy Letters, 2018, 3, 1898-1903.	8.8	5
172	Approaching isotropic transfer integrals in crystalline organic semiconductors. Physical Review Materials, 2020, 4, .	0.9	5
173	Frequency-controlled interaction between magnetic microspheres. Applied Physics Letters, 2006, 88, 134107.	1.5	4
174	Largeâ€Area Perovskite Solar Modules: Combination of Hybrid CVD and Cation Exchange for Upscaling Csâ€Substituted Mixed Cation Perovskite Solar Cells with High Efficiency and Stability (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	4
175	A redox shuttle imparts operational durability to perovskite solar cells. Science Bulletin, 2019, 64, 224-226.	4.3	4
176	[Paper] p-Doping of Squaraine with F4-TCNQ by Solution Processing. ITE Transactions on Media Technology and Applications, 2015, 3, 133-142.	0.3	3
177	Graphene specimen support technique for low voltage STEM imaging. Journal of Electron Microscopy, 2017, 66, 261-271.	0.9	3
178	Photovoltaics: Recent Advances in Spiroâ€MeOTAD Hole Transport Material and Its Applications in Organicâ€“Inorganic Halide Perovskite Solar Cells (Adv. Mater. Interfaces 1/2018). Advanced Materials Interfaces, 2018, 5, 1870003.	1.9	3
179	Increase the rigidity and hydrophobicity of perovskite by a molecular design. Science Bulletin, 2020, 65, 175-176.	4.3	3
180	A solidâ€“liquid hybrid electrolyte for lithium ion batteries enabled by a single-body polymer/indium tin oxide architecture. Journal Physics D: Applied Physics, 2021, 54, 475501.	1.3	3

#	Article	IF	Citations
181	Atomic Level Insights into Metal Halide Perovskite Materials by Scanning Tunneling Microscopy and Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	3
182	Only the chemical state of Indium changes in Mn-doped In3Sb1Te2 (Mn: 10 at.%) during multi-level resistance changes. Scientific Reports, 2015, 4, 4702.	1.6	1
183	Determination of Carrier Diffusion Length Using Transient Electron Photoemission Microscopy in the GaAs/InSe Heterojunction. Physica Status Solidi (B): Basic Research, 2019, 256, 1900126.	0.7	1
184	From film to ring: Quasi-circular inorganic lead halide perovskite grain induced growth of uniform lead silicate glass ring structure. Applied Physics Letters, 2022, 120, .	1.5	1
185	Understanding the nucleation and growth of the degenerated surface structure of the layered transition metal oxide cathodes for lithium-ion batteries by operando Raman spectroscopy. Journal of Electroanalytical Chemistry, 2022, 915, 116340.	1.9	1
186	Scanning Tunneling Microscopy in Surface Science, Nanoscience and Catalysis, Michael Bowker and Philip R. Davies (Eds.). Wiley-VCH, Weinheim, 2010, 244 pages. Print ISBN 9783527319824; Online ISBN 9783527628827. Microscopy and Microanalysis, 2011, 17, 132-132.	0.2	0
187	Ultrathin polycrystalline 6,13-Bis(triisopropylsilylethynyl)-pentacene films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 021506.	0.9	0
188	Influences of Spiro-MeOTAD Hole Transport Layer on the Long-term Stabilities of Perovskite-based Solar Cells. , 2019, , .		0
189	Perovskite Material and Solar Cell Research by Surface Science and Advanced Characterization. , 2019, , .		0
190	Atomic level insights intoÂmetal halide perovskiteÂmaterials by scanning tunneling microscopy and spectroscopy. Angewandte Chemie, 2022, 134, e202112352.	1.6	0
191	Perovskite Material and Solar Cell Research by Surface Science and Advanced Characterization. , 0, , .		0
192	Up-Scaling of Organic-Inorganic Hybrid Perovskite Solar Cells and Modules. , 0, , .		0