## Jinsong Huang

# List of Publications by Year in Descending Order

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

226 105 51,424 245 h-index g-index citations papers 262 8.21 18.3 59,449 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
245	Reducing sputter induced stress and damage for efficient perovskite/silicon tandem solar cells. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 1343-1349	13	5
244	Perovskites Enabled Highly Sensitive and Fast Photodetectors <b>2022</b> , 383-409		
243	Metal Halide Perovskites for Sensitive X -ray Detectors <b>2022</b> , 411-432		
242	Direct Observation of Fast Carriers Transport along Out-of-Plane Direction in a Dionlacobson Layered Perovskite. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 984-987	20.1	3
241	Gradient Doping in Sn-Pb Perovskites by Barium Ions for Efficient Single-junction and Tandem Solar Cells <i>Advanced Materials</i> , <b>2022</b> , e2110351	24	19
240	Transient quantum beatings of trions in hybrid organic tri-iodine perovskite single crystal <i>Nature Communications</i> , <b>2022</b> , 13, 1428	17.4	1
239	Evolution of defects during the degradation of metal halide perovskite solar cells under reverse bias and illumination. <i>Nature Energy</i> , <b>2022</b> , 7, 65-73	62.3	28
238	Recycling lead and transparent conductors from perovskite solar modules. <i>Nature Communications</i> , <b>2021</b> , 12, 5859	17.4	20
237	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. <i>Science Advances</i> , <b>2021</b> , 7, eabi8249	14.3	22
236	Preventing lead leakage with built-in resin layers for sustainable perovskite solar cells. <i>Nature Sustainability</i> , <b>2021</b> , 4, 636-643	22.1	44
235	Ligand assisted growth of perovskite single crystals with low defect density. <i>Nature Communications</i> , <b>2021</b> , 12, 1686	17.4	37
234	Iodine reduction for reproducible and high-performance perovskite solar cells and modules. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	55
233	Acquiring and Modeling of Si Solar-Cell Transient Response to Pulsed X-Ray. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 68, 1152-1160	1.7	
232	Perovskite solar cells with embedded homojunction via nonuniform metal ion doping. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100415	6.1	5
231	Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. <i>Joule</i> , <b>2021</b> , 5, 1246-1266	27.8	30
230	Defect compensation in formamidiniumflaesium perovskites for highly efficient solar mini-modules with improved photostability. <i>Nature Energy</i> , <b>2021</b> , 6, 633-641	62.3	80
229	Highly Efficient Pure-Blue Light-Emitting Diodes Based on Rubidium and Chlorine Alloyed Metal Halide Perovskite. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100783	24	25

### (2020-2021)

228	Perovskite crystals redissolution strategy for affordable, reproducible, efficient and stable perovskite photovoltaics. <i>Materials Today</i> , <b>2021</b> , 50, 199-199	21.8	14
227	Revealing defective nanostructured surfaces and their impact on the intrinsic stability of hybrid perovskites. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1563-1572	35.4	22
226	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	56
225	Mixed halide perovskites for spectrally stable and high-efficiency blue light-emitting diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 361	17.4	119
224	Metallic surface doping of metal halide perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 7	17.4	28
223	Response to Comment on "Resolving spatial and energetic distributions of trap states in metal halide perovskite solar cells". <i>Science</i> , <b>2021</b> , 371,	33.3	7
222	Layer number dependent ferroelasticity in 2D Ruddlesden-Popper organic-inorganic hybrid perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 1332	17.4	10
221	Stabilizing perovskite-substrate interfaces for high-performance perovskite modules. <i>Science</i> , <b>2021</b> , 373, 902-907	33.3	102
220	Unveiling the ambipolar carrier transport property of SnO2X for multiple-functional interlayers in perovskite solar cells. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 123501	3.4	1
219	Strain engineering in metal halide perovskite materials and devices: Influence on stability and optoelectronic properties. <i>Chemical Physics Reviews</i> , <b>2021</b> , 2, 031302	4.4	8
218	Heterojunction structures for reduced noise in large-area and sensitive perovskite x-ray detectors. <i>Science Advances</i> , <b>2021</b> , 7, eabg6716	14.3	19
217	Evaporation of Methylammonium Iodide in Thermal Deposition of MAPbI. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
216	Large-area and efficient perovskite light-emitting diodes via low-temperature blade-coating. <i>Nature Communications</i> , <b>2021</b> , 12, 147	17.4	51
215	Benign ferroelastic twin boundaries in halide perovskites for charge carrier transport and recombination. <i>Nature Communications</i> , <b>2020</b> , 11, 2215	17.4	26
214	Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000999	24	71
213	Double Active Layers Constructed with Halide Perovskite and Quantum Dots for Broadband Photodetection. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000557	8.1	13
212	Blading Phase-Pure Formamidinium-Alloyed Perovskites for High-Efficiency Solar Cells with Low Photovoltage Deficit and Improved Stability. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000995	24	80
211	Tunable perovskite-based photodetectors in optical sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 321, 128462	8.5	5

210	Resolving spatial and energetic distributions of trap states in metal halide perovskite solar cells. <i>Science</i> , <b>2020</b> , 367, 1352-1358	33.3	322
209	Interfacial Molecular Doping of Metal Halide Perovskites for Highly Efficient Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001581	24	77
208	Reducing Surface Halide Deficiency for Efficient and Stable Iodide-Based Perovskite Solar Cells. Journal of the American Chemical Society, <b>2020</b> , 142, 3989-3996	16.4	133
207	Tailoring carrier dynamics in perovskite solar cells via precise dimension and architecture control and interfacial positioning of plasmonic nanoparticles. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1743	3 <sup>3</sup> 57 <b>5</b> 2	33
206	Is Formamidinium Always More Stable than Methylammonium?. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2501-2	25,067	21
205	Comparative studies of optoelectrical properties of prominent PV materials: Halide perovskite, CdTe, and GaAs. <i>Materials Today</i> , <b>2020</b> , 36, 18-29	21.8	20
204	Blade-Coated Perovskites on Textured Silicon for 26%-Efficient Monolithic Perovskite/Silicon Tandem Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 850-864	27.8	154
203	Templated growth of oriented layered hybrid perovskites on 3D-like perovskites. <i>Nature Communications</i> , <b>2020</b> , 11, 582	17.4	92
202	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , <b>2020</b> , 5, 131-140	62.3	552
201	Performance of Perovskite CsPbBr3 Single Crystal Detector for Gamma-Ray Detection. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 443-449	1.7	26
200	Scalable Fabrication of Efficient Perovskite Solar Modules on Flexible Glass Substrates. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903108	21.8	125
199	Fullerenes with dipoles: boosting the efficiency of perovskite solar cells. <i>Science China Chemistry</i> , <b>2020</b> , 63, 145-146	7.9	
198	Ultrafast Exciton Transport with a Long Diffusion Length in Layered Perovskites with Organic Cation Functionalization. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004080	24	16
197	Simplified interconnection structure based on C60/SnO2-x for all-perovskite tandem solar cells. <i>Nature Energy</i> , <b>2020</b> , 5, 657-665	62.3	85
196	Perovskite Solar Cells: Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells (Adv. Mater. 28/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070211	24	
195	Identifying the Soft Nature of Defective Perovskite Surface Layer and Its Removal Using a Facile Mechanical Approach. <i>Joule</i> , <b>2020</b> , 4, 2661-2674	27.8	34
194	Low defects density CsPbBr3 single crystals grown by an additive assisted method for gamma-ray detection. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11360-11368	7.1	20
193	Reduced Self-Doping of Perovskites Induced by Short Annealing for Efficient Solar Modules. <i>Joule</i> , <b>2020</b> , 4, 1949-1960	27.8	42

#### (2019-2020)

192	Suppressing Interfacial Charge Recombination in Electron-Transport-Layer-Free Perovskite Solar Cells to Give an Efficiency Exceeding 21 %. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21166-21173	3.6	20
191	Suppressing Interfacial Charge Recombination in Electron-Transport-Layer-Free Perovskite Solar Cells to Give an Efficiency Exceeding 21 . <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20980-20	)9 <sup>1874</sup>	33
190	Trapping lead in perovskite solar modules with abundant and low-cost cation-exchange resins. <i>Nature Energy</i> , <b>2020</b> , 5, 1003-1011	62.3	65
189	Perovskite-filled membranes for flexible and large-area direct-conversion X-ray detector arrays.  Nature Photonics, 2020, 14, 612-617	33.9	94
188	Comparison of Zr, Bi, Ti, and Ga as Metal Contacts in Inorganic Perovskite CsPbBrlGamma-Ray Detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 2255-2262	1.7	15
187	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4498	17.4	138
186	Fast Growth of Thin MAPbI3 Crystal Wafers on Aqueous Solution Surface for Efficient Lateral-Structure Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807707	15.6	38
185	Metal Ions in Halide Perovskite Materials and Devices. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 394-409	14.8	32
184	Meniscus fabrication of halide perovskite thin films at high throughput for large area and low-cost solar panels. <i>International Journal of Extreme Manufacturing</i> , <b>2019</b> , 1, 022004	7.9	33
183	Imperfections and their passivation in halide perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3842-3867	58.5	724
182	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1231-1240	20.1	83
181	Tailoring Passivation Molecular Structures for Extremely Small Open-Circuit Voltage Loss in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5781-5787	16.4	368
180	Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. <i>Nature Communications</i> , <b>2019</b> , 10, 1276	17.4	144
179	Halide lead perovskites for ionizing radiation detection. <i>Nature Communications</i> , <b>2019</b> , 10, 1066	17.4	317
178	Bilateral alkylamine for suppressing charge recombination and improving stability in blade-coated perovskite solar cells. <i>Science Advances</i> , <b>2019</b> , 5, eaav8925	14.3	262
177	Rational molecular passivation for high-performance perovskite light-emitting diodes. <i>Nature Photonics</i> , <b>2019</b> , 13, 418-424	33.9	638
176	Stabilizing halide perovskite surfaces for solar cell operation with wide-bandgap lead oxysalts. <i>Science</i> , <b>2019</b> , 365, 473-478	33.3	460
175	Synergistic Effect of Elevated Device Temperature and Excess Charge Carriers on the Rapid Light-Induced Degradation of Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902413	24	57

174	Unveiling the operation mechanism of layered perovskite solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 1008	17.4	143
173	Tailoring solvent coordination for high-speed, room-temperature blading of perovskite photovoltaic films. <i>Science Advances</i> , <b>2019</b> , 5, eaax7537	14.3	179
172	Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. <i>Nature Communications</i> , <b>2019</b> , 10, 5633	17.4	164
171	Organohalide Lead Perovskites: More Stable than Glass under Gamma-Ray Radiation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805547	24	51
170	Grain Engineering for Perovskite/Silicon Monolithic Tandem Solar Cells with Efficiency of 25.4%. <i>Joule</i> , <b>2019</b> , 3, 177-190	27.8	227
169	Panchromatic All-Polymer Photodetector with Tunable Polarization Sensitivity. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801346	8.1	20
168	Molecular doping enabled scalable blading of efficient hole-transport-layer-free perovskite solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 1625	17.4	242
167	Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. <i>Advanced Materials</i> , <b>2018</b> , 30, e17	0 <del>38</del> 01	45
166	Suppressed Ion Migration along the In-Plane Direction in Layered Perovskites. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 684-688	20.1	166
165	Enhanced Thermal Stability in Perovskite Solar Cells by Assembling 2D/3D Stacking Structures. Journal of Physical Chemistry Letters, 2018, 9, 654-658	6.4	313
164	Environmental Surface Stability of the MAPbBr3 Single Crystal. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3513-3522	3.8	39
163	Argon Plasma Treatment to Tune Perovskite Surface Composition for High Efficiency Solar Cells and Fast Photodetectors. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705176	24	60
162	Hot-Substrate Deposition of Hole- and Electron-Transport Layers for Enhanced Performance in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701659	21.8	18
161	High Performance and Stable All-Inorganic Metal Halide Perovskite-Based Photodetectors for Optical Communication Applications. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803422	24	224
160	Enhanced Piezoelectric Response in Hybrid Lead Halide Perovskite Thin Films via Interfacing with Ferroelectric PbZrTiO. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 19218-19225	9.5	21
159	Hybrid Perovskite Based Photodetectors. <i>Materials and Energy</i> , <b>2018</b> , 1-29		
158	Excess charge-carrier induced instability of hybrid perovskites. <i>Nature Communications</i> , <b>2018</b> , 9, 4981	17.4	95
157	Intrinsic Behavior of CH3NH3PbBr3 Single Crystals under Light Illumination. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1801206	4.6	11

156	Large electrostrictive response in lead halide perovskites. <i>Nature Materials</i> , <b>2018</b> , 17, 1020-1026	27	89
155	Dual Functions of Crystallization Control and Defect Passivation Enabled by Sulfonic Zwitterions for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803428	24	198
154	Organohalide Perovskites: Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites (Adv. Mater. 22/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870158	24	1
153	Surfactant-controlled ink drying enables high-speed deposition of perovskite films for efficient photovoltaic modules. <i>Nature Energy</i> , <b>2018</b> , 3, 560-566	62.3	419
152	Valence band dispersion measurements of perovskite single crystals using angle-resolved photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 5361-5365	3.6	28
151	Quantification of re-absorption and re-emission processes to determine photon recycling efficiency in perovskite single crystals. <i>Nature Communications</i> , <b>2017</b> , 8, 14417	17.4	154
150	Universal Strategy To Reduce Noise Current for Sensitive Organic Photodetectors. <i>ACS Applied Materials &amp; Acs Applied </i>	9.5	55
149	Real-Time Nanoscale Open-Circuit Voltage Dynamics of Perovskite Solar Cells. <i>Nano Letters</i> , <b>2017</b> , 17, 2554-2560	11.5	89
148	Light-Induced Degradation of CH3NH3PbI3 Hybrid Perovskite Thin Film. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3904-3910	3.8	196
147	Highly Narrowband Photomultiplication Type Organic Photodetectors. <i>Nano Letters</i> , <b>2017</b> , 17, 1995-20	0 <b>02</b> 1.5	223
146	The Functions of Fullerenes in Hybrid Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 782-794	20.1	184
145	Progress in Tandem Solar Cells Based on Hybrid OrganicIhorganic Perovskites. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602400	21.8	101
144	Double Perovskite Cs2BBiX6 (B = Ag, Cu; X = Br, Cl)/TiO2 Heterojunction: An Efficient Pb-Free Perovskite Interface for Charge Extraction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4471-4480	3.8	48
143	CHNHPbI perovskites: Ferroelasticity revealed. <i>Science Advances</i> , <b>2017</b> , 3, e1602165	14.3	179
142	Monolithic integration of hybrid perovskite single crystals with heterogenous substrate for highly sensitive X-ray imaging. <i>Nature Photonics</i> , <b>2017</b> , 11, 315-321	33.9	393
141	Spontaneous Passivation of Hybrid Perovskite by Sodium Ions from Glass Substrates: Mysterious Enhancement of Device Efficiency Revealed. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1400-1406	20.1	93
140	Matching Charge Extraction Contact for Wide-Bandgap Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700607	24	126
139	Detecting 100 fW cm Light with Trapped Electron Gated Organic Phototransistors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603969	24	43

138	Composition Engineering in Doctor-Blading of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700302	21.8	195
137	Efficient Flexible Solar Cell based on Composition-Tailored Hybrid Perovskite. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605900	24	153
136	Suppressed Ion Migration in Low-Dimensional Perovskites. ACS Energy Letters, 2017, 2, 1571-1572	20.1	287
135	Anomalous photovoltaic effect in organic-inorganic hybrid perovskite solar cells. <i>Science Advances</i> , <b>2017</b> , 3, e1602164	14.3	133
134	EConjugated Lewis Base: Efficient Trap-Passivation and Charge-Extraction for Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604545	24	431
133	Detection of charged particles with a methylammonium lead tribromide perovskite single crystal.  Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers,  Detectors and Associated Equipment, 2017, 848, 106-108	1.2	49
132	Integration of perovskite and polymer photoactive layers to produce ultrafast response, ultraviolet-to-near-infrared, sensitive photodetectors. <i>Materials Horizons</i> , <b>2017</b> , 4, 242-248	14.4	101
131	Scaling behavior of moisture-induced grain degradation in polycrystalline hybrid perovskite thin films. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 516-522	35.4	525
130	Photoluminescence from Radiative Surface States and Excitons in Methylammonium Lead Bromide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4258-4263	6.4	37
129	Low-Noise and Large-Linear-Dynamic-Range Photodetectors Based on Hybrid-Perovskite Thin-Single-Crystals. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703209	24	208
128	Stabilizing the ⊕hase of CsPbI3 Perovskite by Sulfobetaine Zwitterions in One-Step Spin-Coating Films. <i>Joule</i> , <b>2017</b> , 1, 371-382	27.8	344
127	Self-Filtered Narrowband Perovskite Photodetectors with Ultrafast and Tuned Spectral Response. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700672	8.1	54
126	Unraveling the High Open Circuit Voltage and High Performance of Integrated Perovskite/Organic Bulk-Heterojunction Solar Cells. <i>Nano Letters</i> , <b>2017</b> , 17, 5140-5147	11.5	61
125	In- and Ga-based inorganic double perovskites with direct bandgaps for photovoltaic applications. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 21691-21695	3.6	24
124	Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702090	15.6	71
123	Thin single crystal perovskite solar cells to harvest below-bandgap light absorption. <i>Nature Communications</i> , <b>2017</b> , 8, 1890	17.4	326
122	Strained hybrid perovskite thin films and their impact on the intrinsic stability of perovskite solar cells. <i>Science Advances</i> , <b>2017</b> , 3, eaao5616	14.3	399
121	Stable Graphene-Two-Dimensional Multiphase Perovskite Heterostructure Phototransistors with High Gain. <i>Nano Letters</i> , <b>2017</b> , 17, 7330-7338	11.5	63

### (2016-2017)

120	Defect passivation in hybrid perovskite solar cells using quaternary ammonium halide anions and cations. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	1241
119	Understanding the physical properties of hybrid perovskites for photovoltaic applications. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	673
118	Meniscus-assisted solution printing of large-grained perovskite films for high-efficiency solar cells. <i>Nature Communications</i> , <b>2017</b> , 8, 16045	17.4	292
117	Dopant compensation in alloyed CHNHPbBrCl perovskite single crystals for gamma-ray spectroscopy. <i>Nature Materials</i> , <b>2017</b> , 16, 826-833	27	343
116	Low Temperature Solution-Processed Sb:SnO Nanocrystals for Efficient Planar Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2016</b> , 9, 2686-2691	8.3	138
115	Advances in Perovskite Solar Cells. <i>Advanced Science</i> , <b>2016</b> , 3, 1500324	13.6	397
114	High-Performance All-Polymer Photoresponse Devices Based on Acceptor Acceptor Conjugated Polymers. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6306-6315	15.6	79
113	Photovoltaic Diode Effect Induced by Positive Bias Poling of Organic Layer-Mediated Interface in Perovskite Heterostructure HC(NH2)2PbI3/TiO2. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600267	4.6	9
112	Efficient Semitransparent Perovskite Solar Cells for 23.0%-Efficiency Perovskite/Silicon Four-Terminal Tandem Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601128	21.8	203
111	A Self-Powered, Sub-nanosecond-Response Solution-Processed Hybrid Perovskite Photodetector for Time-Resolved Photoluminescence-Lifetime Detection. <i>Advanced Materials</i> , <b>2016</b> , 28, 10794-10800	24	230
110	Doping and alloying for improved perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1762	3-13763	5126
109	Ultrahigh sensitivity of methylammonium lead tribromide perovskite single crystals to environmental gases. <i>Science Advances</i> , <b>2016</b> , 2, e1600534	14.3	251
108	Is Cu a stable electrode material in hybrid perovskite solar cells for a 30-year lifetime?. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3650-3656	35.4	189
107	Enhancing stability and efficiency of perovskite solar cells with crosslinkable silane-functionalized and doped fullerene. <i>Nature Communications</i> , <b>2016</b> , 7, 12806	17.4	293
106	Correlation of energy disorder and open-circuit voltage in hybrid perovskite solar cells. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	529
105	Energy-Efficient Hybrid Perovskite Memristors and Synaptic Devices. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600100	6.4	215
104	Ion Migration in Organometal Trihalide Perovskite and Its Impact on Photovoltaic Efficiency and Stability. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 286-93	24.3	1002
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