Tsutomu Miyasaka

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.

60 189 35,779 233 h-index g-index citations papers 7.89 263 40,652 7.9 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
233	FAPbBr3 perovskite solar cells with VOC values over 1.5 V by controlled crystal growth using tetramethylenesulfoxide. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 672-681	13	2
232	Research Background and Recent Progress of Perovskite Photovoltaics 2022 , 1-60		Ο
231	Defect Properties of Halide Perovskites for Photovoltaic Applications 2022 , 107-126		
230	Halide Perovskite Materials, Structural Dimensionality, and Synthesis 2022 , 61-79		
229	Phenethylamine-Based Interfacial Dipole Engineering for High Voc Triple-Cation Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022 , 12, 2102856	21.8	3
228	Perovskites Enabled Highly Sensitive and Fast Photodetectors 2022 , 383-409		
227	Ionic/Electronic Conduction and Capacitance of Halide Perovskite Materials 2022, 173-213		
226	Quantum Dots of Halide Perovskite 2022 , 321-344		
225	All-Inorganic Perovskite Photovoltaics 2022 , 247-292		
224	High-Efficiency Solar Cells with Polyelemental, Multicomponent Perovskite Materials 2022 , 233-246		0
223	Hysteresis of I IV Performance: Its Origin and Engineering for Elimination 2022, 215-232		
222	Perovskite Light - Emitting Diode Technologies 2022 , 345-381		
221	Overview of Hybrid Perovskite Solar Cells 2021 , 29-64		
220	Fundamental and Development of Perovskite Solar Cells. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2021 , 141, 762-765	О	
219	Single- or double A-site cations in A3Bi2I9 bismuth perovskites: What is the suitable choice?. <i>Journal of Materials Research</i> , 2021 , 36, 1794-1804	2.5	6
218	Ionic Liquid-Assisted MAPbI Nanoparticle-Seeded Growth for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Distriction</i> (2015) 13, 21194-21206	9.5	20
217	Passivation of Bulk and Interface Defects in Sputtered-NiOx-Based Planar Perovskite Solar Cells: A Facile Interfacial Engineering Strategy with Alkali Metal Halide Salts. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4530-4540	6.1	8

(2020-2021)

216	Optical behaviour of Eblack CsPbI3 phases formed by quenching from 80 LC and 325 LC. <i>JPhys Materials</i> , 2021 , 4, 034011	4.2	2
215	Formation of CsPbI3 Phase at 80 °C by Europium-Assisted Snowplow Effect. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100091	1.6	4
214	Evaluation of Damage Coefficient for Minority-Carrier Diffusion Length of Triple-Cation Perovskite Solar Cells under 1 MeV Electron Irradiation for Space Applications. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13131-13137	3.8	4
213	Dopant-Free Polymer HTM-Based CsPbI2Br Solar Cells with Efficiency Over 17% in Sunlight and 34% in Indoor Light. <i>Advanced Functional Materials</i> , 2021 , 31, 2103614	15.6	18
212	Artemisinin-passivated mixed-cation perovskite films for durable flexible perovskite solar cells with over 21% efficiency. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1574-1582	13	63
211	Drastic Change of Surface Morphology of Cesium Bormamidinium Perovskite Solar Cells by Antisolvent Processing. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1069-1077	6.1	1
210	Chlorophyll Derivative-Sensitized TiO Electron Transport Layer for Record Efficiency of CsAgBiBr Double Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2207-2211	16.4	61
209	Concerted Ion Migration and Diffusion-Induced Degradation in Lead-Free Ag3BiI6 Rudorffite Solar Cells under Ambient Conditions. <i>Solar Rrl</i> , 2021 , 5, 2100077	7.1	7
208	Organic Dye/CsAgBiBr Double Perovskite Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14877-14883	16.4	19
207	Performance improvement of MXene-based perovskite solar cells upon property transition from metallic to semiconductive by oxidation of Ti3C2Tx in air. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 501	6 ⁻¹³ 025	5 ² 4
206	Photoluminescence Excitation Spectroscopy of Defect-Related States in MAPbI3 Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2020 , 9, 2001327	8.1	3
205	Electron irradiation induced aging effects on radiative recombination properties of quadruple cation organic-inorganic perovskite layers. <i>Emergent Materials</i> , 2020 , 3, 133-160	3.5	2
204	Residual PbI2 Beneficial in the Bulk or at the Interface? An Investigation Study in Sputtered NiOx Hole-Transport-Layer-Based Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6215-6221	6.1	13
203	Low-Temperature Synthesized Nb-Doped TiO Electron Transport Layer Enabling High-Efficiency Perovskite Solar Cells by Band Alignment Tuning. <i>ACS Applied Materials & District Americans</i> , 2020, 12, 151	78 - 151	8 2 4
202	Lead(II) Propionate Additive and a Dopant-Free Polymer Hole Transport Material for CsPbI2Br Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1292-1299	20.1	54
2 01	Cesium Acetate-Induced Interfacial Compositional Change and Graded Band Level in MAPbI Perovskite Solar Cells. <i>ACS Applied Materials & Samp; Interfaces</i> , 2020 , 12, 33631-33637	9.5	8
200	A single-phase brookite TiO2 nanoparticle bridge enhances the stability of perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2009-2017	5.8	19
199	Light-Emitting Diodes: Sensitized Yb3+ Luminescence in CsPbCl3 Film for Highly Efficient Near-Infrared Light-Emitting Diodes (Adv. Sci. 4/2020). <i>Advanced Science</i> , 2020 , 7, 2070021	13.6	78

198	Femto- to Microsecond Dynamics of Excited Electrons in a Quadruple Cation Perovskite. <i>ACS Energy Letters</i> , 2020 , 5, 785-792	20.1	8
197	Sensitized Yb Luminescence in CsPbCl Film for Highly Efficient Near-Infrared Light-Emitting Diodes. <i>Advanced Science</i> , 2020 , 7, 1903142	13.6	27
196	Photoactive Zn-Chlorophyll Hole Transporter-Sensitized Lead-Free Cs2AgBiBr6 Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000166	7.1	31
195	Over 1.4 V for Amorphous Tin-Oxide-Based Dopant-Free CsPbIBr Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9725-9734	16.4	55
194	Full Efficiency Recovery in Hole-Transporting Layer-Free Perovskite Solar Cells With Free-Standing Dry-Carbon Top-Contacts. <i>Frontiers in Chemistry</i> , 2020 , 8, 200	5	6
193	Synthesis, optoelectronic properties and applications of halide perovskites. <i>Chemical Society Reviews</i> , 2020 , 49, 2869-2885	58.5	123
192	MACl-Assisted Ge Doping of Pb-Hybrid Perovskite: A Universal Route to Stabilize High Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903299	21.8	22
191	Investigating the Growth of CH3NH3PbI3 Thin Films on RF-Sputtered NiOx for Inverted Planar Perovskite Solar Cells: Effect of CH3NH3+ Halide Additives versus CH3NH3+ Halide Vapor Annealing. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901748	4.6	31
190	Planar perovskite solar cells using triazatruxene-based hyperbranched conjugated polymers and small molecule as hole-transporting materials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 389, 112228	4.7	1
189	Tetrahydrofuran as an Oxygen Donor Additive to Enhance Stability and Reproducibility of Perovskite Solar Cells Fabricated in High Relative Humidity (50%) Atmosphere. <i>Energy Technology</i> , 2020 , 8, 1900990	3.5	2
188	Quantum cutting-induced near-infrared luminescence of Yb and Er in a layer structured perovskite film. <i>Journal of Chemical Physics</i> , 2020 , 153, 194704	3.9	6
187	Direct detection of circular polarized light in helical 1D perovskite-based photodiode. <i>Science Advances</i> , 2020 , 6,	14.3	59
186	Improved Electrical and Structural Stability in HTL-Free Perovskite Solar Cells by Vacuum Curing Treatment. <i>Energies</i> , 2020 , 13, 3953	3.1	6
185	Benzodithiophene-thienopyrroledione-thienothiophene-based random copolymeric hole transporting material for perovskite solar cell. <i>Chemical Engineering Journal</i> , 2020 , 382, 122830	14.7	11
184	Perovskite Solar Cells: Can We Go Organic-Free, Lead-Free, and Dopant-Free?. <i>Advanced Energy Materials</i> , 2020 , 10, 1902500	21.8	124
183	Photomultiplying Visible Light Detection by Halide Perovskite Nanoparticles Hybridized with an Organo Eu Complex. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5935-5942	6.4	8
182	SnO2IIi3C2 MXene electron transport layers for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5635-5642	13	111
181	Performance enhancement of AgBil solar cells by modulating a solvent-mediated adduct and tuning remnant Bil in one-step crystallization. <i>Chemical Communications</i> , 2019 , 55, 4031-4034	5.8	35

180	Thermo-evaporated pentacene and perylene as hole transport materials for perovskite solar cells. <i>Dyes and Pigments</i> , 2019 , 160, 285-291	4.6	11
179	Thermal Degradation Analysis of Sealed Perovskite Solar Cell with Porous Carbon Electrode at 100 °C for 7000 h. <i>Energy Technology</i> , 2019 , 7, 245-252	3.5	24
178	Bilayer chlorophyll derivatives as efficient hole-transporting layers for perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2357-2362	7.8	12
177	Surface-Modified Metallic Ti3C2Tx MXene as Electron Transport Layer for Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1905694	15.6	67
176	Proton Irradiation Tolerance of High-Efficiency Perovskite Absorbers for Space Applications. Journal of Physical Chemistry Letters, 2019 , 10, 6990-6995	6.4	17
175	Exceptional Progress of Perovskite Solar Cell. <i>Seikei-Kakou</i> , 2019 , 31, 456-457	О	
174	Halide Perovskite Photovoltaics: Background, Status, and Future Prospects. <i>Chemical Reviews</i> , 2019 , 119, 3036-3103	68.1	1189
173	Perovskite solar cells based on chlorophyll hole transporters: Dependence of aggregation and photovoltaic performance on aliphatic chains at C17-propionate residue. <i>Dyes and Pigments</i> , 2019 , 162, 763-770	4.6	13
172	Stable and efficient perovskite solar cells fabricated using aqueous lead nitrate precursor: Interpretation of the conversion mechanism and renovation of the sequential deposition. <i>Materials Today Energy</i> , 2019 , 14, 100125	7	8
171	Solid-State Thin-Film Dye-Sensitized Solar Cell Co-Sensitized with Methylammonium Lead Bromide Perovskite. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 754-760	5.1	10
170	Vapor Annealing Controlled Crystal Growth and Photovoltaic Performance of Bismuth Triiodide Embedded in Mesostructured Configurations. <i>ACS Applied Materials & Discourt Americals</i> , 10, 9547-95	5 94 5	31
169	Nb-doped amorphous titanium oxide compact layer for formamidinium-based high efficiency perovskite solar cells by low-temperature fabrication. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9583-95	; ∮ }	26
168	Lead Halide Perovskites in Thin Film Photovoltaics: Background and Perspectives. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 1058-1068	5.1	73
167	Copper iodide-PEDOT:PSS double hole transport layers for improved efficiency and stability in perovskite solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 357, 36-40	4.7	28
166	Microstructural analysis and optical properties of the halide double perovskite Cs2BiAgBr6 single crystals. <i>Chemical Physics Letters</i> , 2018 , 694, 18-22	2.5	29
165	Sulfate-Assisted Interfacial Engineering for High Yield and Efficiency of Triple Cation Perovskite Solar Cells with Alkali-Doped TiO2 Electron-Transporting Layers. <i>Advanced Functional Materials</i> , 2018 , 28, 1706287	15.6	147
164	Role of spiro-OMeTAD in performance deterioration of perovskite solar cells at high temperature and reuse of the perovskite films to avoid Pb-waste. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2219-223	o ¹³	161
163	Amorphous Metal Oxide Blocking Layers for Highly Efficient Low-Temperature Brookite TiO-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2224-2229	9.5	78

162	Spontaneous Synthesis of Highly Crystalline TiO Compact/Mesoporous Stacked Films by a Low-Temperature Steam-Annealing Method for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Damp; Interfaces</i> , 2018 , 10, 17195-17202	9.5	10
161	Tolerance of Perovskite Solar Cell to High-Energy Particle Irradiations in Space Environment. <i>IScience</i> , 2018 , 2, 148-155	6.1	87
160	ZnO/ZnS core-shell composites for low-temperature-processed perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2018 , 27, 1461-1467	12	14
159	Biosupramolecular bacteriochlorin aggregates as hole-transporters for perovskite solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018 , 353, 639-644	4.7	16
158	Stabilizing the Efficiency Beyond 20% with a Mixed Cation Perovskite Solar Cell Fabricated in Ambient Air under Controlled Humidity. <i>Advanced Energy Materials</i> , 2018 , 8, 1700677	21.8	334
157	Effects of Cyclic Tetrapyrrole Rings of Aggregate-Forming Chlorophyll Derivatives as Hole-Transporting Materials on Performance of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 9-16	6.1	22
156	Thiocyanate Containing Two-Dimensional Cesium Lead Iodide Perovskite, CsPbI(SCN): Characterization, Photovoltaic Application, and Degradation Mechanism. <i>ACS Applied Materials & ACS Applied Materials & ACS Applied Materials</i>	9.5	28
155	Ambient Fabrication of 126 th Thick Complete Perovskite Photovoltaic Device for High Flexibility and Performance. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6741-6747	6.1	21
154	Stabilization of £CsPbI3 in Ambient Room Temperature Conditions by Incorporating Eu into CsPbI3. <i>Chemistry of Materials</i> , 2018 , 30, 6668-6674	9.6	143
153	Invalidity of Band-Gap Engineering Concept for Bi Heterovalent Doping in CsPbBr Halide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5408-5411	6.4	55
152	Stability and Degradation in Hybrid Perovskites: Is the Glass Half-Empty or Half-Full?. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3000-3007	6.4	72
151	Tuning of perovskite solar cell performance via low-temperature brookite scaffolds surface modifications. <i>APL Materials</i> , 2017 , 5, 016103	5.7	15
150	An Ultrathin Sputtered TiO2 Compact Layer for Mesoporous Brookite-based Plastic CH3NH3PbI3\(\mathbb{H}\)Clx Solar Cells. <i>Chemistry Letters</i> , 2017 , 46, 530-532	1.7	22
149	Photovoltaic enhancement of bismuth halide hybrid perovskite by N-methyl pyrrolidone-assisted morphology conversion. <i>RSC Advances</i> , 2017 , 7, 9456-9460	3.7	63
148	Solution-Processed Transparent Nickel-Mesh Counter Electrode with in-Situ Electrodeposited Platinum Nanoparticles for Full-Plastic Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 8083-8091	9.5	35
147	Controlled Crystal Grain Growth in Mixed Cation-Halide Perovskite by Evaporated Solvent Vapor Recycling Method for High Efficiency Solar Cells. <i>ACS Applied Materials & Distriction (Control of the Control of the Cont</i>	9-98 ₇₄	7 34
146	Photovoltaic Properties of Two-dimensional (CH3(CH2)3NH3)2PbI4 Perovskite Crystals Oriented with TiO2 Nanowire Array. <i>Chemistry Letters</i> , 2017 , 46, 1204-1206	1.7	16
145	Revealing a Discontinuity in the Degradation Behavior of CH3NH3PbI3 during Thermal Operation. Journal of Physical Chemistry C, 2017, 121, 13577-13585	3.8	27

144	Highly efficient and stable low-temperature processed ZnO solar cells with triple cation perovskite absorber. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13439-13447	13	71
143	First Evidence of CH3NH3PbI3 Optical Constants Improvement in a N2 Environment in the Range 40 B 0 LC. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7703-7710	3.8	35
142	Degradation of CH3NH3PbI3 perovskite due to soft x-ray irradiation as analyzed by an x-ray photoelectron spectroscopy time-dependent measurement method. <i>Journal of Applied Physics</i> , 2017 , 121, 085501	2.5	25
141	Formamidine and cesium-based quasi-two-dimensional perovskites as photovoltaic absorbers. <i>Chemical Communications</i> , 2017 , 53, 4366-4369	5.8	58
140	Poly(4-Vinylpyridine)-Based Interfacial Passivation to Enhance Voltage and Moisture Stability of Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 2473-2479	8.3	132
139	Enhancement of the hole conducting effect of NiO by a N blow drying method in printable perovskite solar cells with low-temperature carbon as the counter electrode. <i>Nanoscale</i> , 2017 , 9, 5475-	548 ⁷ 2	30
138	Low-temperature and Ambient Air Processes of Amorphous SnOx-based Mixed Halide Perovskite Planar Solar Cell. <i>Chemistry Letters</i> , 2017 , 46, 382-384	1.7	24
137	Solar Water Splitting Utilizing a SiC Photocathode, a BiVO Photoanode, and a Perovskite Solar Cell. <i>ChemSusChem</i> , 2017 , 10, 4420-4423	8.3	20
136	Lead-free perovskite solar cells using Sb and Bi-based ABX and ABX crystals with normal and inverse cell structures. <i>Nano Convergence</i> , 2017 , 4, 26	9.2	38
135	Effect of Electrochemically Deposited MgO Coating on Printable Perovskite Solar Cell Performance. <i>Coatings</i> , 2017 , 7, 36	2.9	9
134	Severe Morphological Deformation of Spiro-OMeTAD in (CH3NH3)PbI3 Solar Cells at High Temperature. <i>ACS Energy Letters</i> , 2017 , 2, 1760-1761	20.1	103
133	All-inorganic inverse perovskite solar cells using zinc oxide nanocolloids on spin coated perovskite layer. <i>Nano Convergence</i> , 2017 , 4, 18	9.2	14
132	Fullerene Multiadducts as Electron Collection Layers for Perovskite Solar Cells. <i>Chemistry Letters</i> , 2017 , 46, 101-103	1.7	7
131	Evolution of Organic and Hybrid Photovoltaics on Interdiscipline of Science. <i>Electrochemistry</i> , 2017 , 85, 221-221	1.2	1
130	Role of Metal Oxide Electron-Transport Layer Modification on the Stability of High Performing Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2559-2566	8.3	59
129	100 LC Thermal Stability of Printable Perovskite Solar Cells Using Porous Carbon Counter Electrodes. <i>ChemSusChem</i> , 2016 , 9, 2604-2608	8.3	88
128	Dopant-Free Zinc Chlorophyll Aggregates as an Efficient Biocompatible Hole Transporter for Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2862-2869	8.3	52
127	Anatase and Brookite Electron Collectors from Binder-free Precursor Pastes for Low-temperature Solution-processed Perovskite Solar Cells. <i>Chemistry Letters</i> , 2016 , 45, 143-145	1.7	11

126	Revealing and reducing the possible recombination loss within TiO2 compact layer by incorporating MgO layer in perovskite solar cells. <i>Solar Energy</i> , 2016 , 136, 379-384	6.8	43
125	Towards stable and commercially available perovskite solar cells. <i>Nature Energy</i> , 2016 , 1,	62.3	763
124	Analysis of Sputtering Damage on IV Curves for Perovskite Solar Cells and Simulation with Reversed Diode Model. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28441-28447	3.8	32
123	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. <i>Scientific Reports</i> , 2016 , 6, 34319	4.9	63
122	A SnOx-brookite TiO2 bilayer electron collector for hysteresis-less high efficiency plastic perovskite solar cells fabricated at low process temperature. <i>Chemical Communications</i> , 2016 , 52, 8119-22	5.8	54
121	Impacts of Heterogeneous TiO2 and Al2O3 Composite Mesoporous Scaffold on Formamidinium Lead Trihalide Perovskite Solar Cells. <i>ACS Applied Materials & Description of the Perovskite Solar Cells and Al2O3 Composite Mesoporous Scaffold on Formamidinium Lead Trihalide Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description of the Perovskite Solar Cells. ACS Applied Materials & Description Office Solar Cells. ACS Applied Materials & Description Office Solar Cells. ACS Applied Materials & Description O</i>	9.5	31
120	Steady state performance, photo-induced performance degradation and their relation to transient hysteresis in perovskite solar cells. <i>Journal of Power Sources</i> , 2016 , 309, 1-10	8.9	41
119	The mechanism of toluene-assisted crystallization of organic[horganic perovskites for highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4464-4471	13	74
118	Low-temperature-processed ZnOBnO2 nanocomposite for efficient planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 623-630	6.4	120
117	Characterization of Adhesion in Ceramics Coating by AE Technique. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2016 , 2016, S0420105	O	
116	Solution-processed tBu4-ZnPc:C61bulk heterojunction organic photovoltaic cells. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 032301	1.4	3
115	Effect of Electron Transporting Layer on Bismuth-Based Lead-Free Perovskite (CH3NH3)3 Bi2I9 for Photovoltaic Applications. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 14542-7	9.5	225
114	Stability of solution-processed MAPbI3 and FAPbI3 layers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13413-22	3.6	151
113	High performance perovskite solar cell via multi-cycle low temperature processing of lead acetate precursor solutions. <i>Chemical Communications</i> , 2016 , 52, 4784-7	5.8	33
112	HC(NH2)2PbI3 as a thermally stable absorber for efficient ZnO-based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8435-8443	13	59
111	Magnesium-doped Zinc Oxide as Electron Selective Contact Layers for Efficient Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2640-2647	8.3	56
110	Hysteresis Characteristics and Device Stability 2016 , 255-284		3
109	Trend of Perovskite Solar Cells: Dig Deeper to Build Higher. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2315-7	6.4	25

(2015-2015)

108	PbI2-Based Dipping-Controlled Material Conversion for Compact Layer Free Perovskite Solar Cells. <i>ACS Applied Materials & Discrete Solar Cells</i> , 7, 18156-62	9.5	60
107	Efficient perovskite solar cells fabricated using an aqueous lead nitrate precursor. <i>Chemical Communications</i> , 2015 , 51, 13294-7	5.8	59
106	A Switchable High-Sensitivity Photodetecting and Photovoltaic Device with Perovskite Absorber. Journal of Physical Chemistry Letters, 2015 , 6, 1773-9	6.4	66
105	The Interface between FTO and the TiO2 Compact Layer Can Be One of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins to Hysteresis in Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Description of the Origins and Perovskite Solar Cells. ACS Applied Materials & Description of the Origins and Perovskite Solar Cells. ACS Applied Materials & Description of the Origins and Perovskite Solar Cells.</i>	9.5	129
104	High Efficiency and Robust Performance of Organo Lead Perovskite Solar Cells with Large Grain Absorbers Prepared in Ambient Air Conditions. <i>Chemistry Letters</i> , 2015 , 44, 321-323	1.7	28
103	Low-temperature SnO2-based electron selective contact for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10837-10844	13	272
102	Brookite TiO2 as a low-temperature solution-processed mesoporous layer for hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20952-20957	13	35
101	Emergence of Hysteresis and Transient Ferroelectric Response in Organo-Lead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 164-9	6.4	256
100	Efficient and Environmentally Stable Perovskite Solar Cells Based on ZnO Electron Collection Layer. <i>Chemistry Letters</i> , 2015 , 44, 610-612	1.7	65
99	Nb2O5 Blocking Layer for High Open-circuit Voltage Perovskite Solar Cells. <i>Chemistry Letters</i> , 2015 , 44, 829-830	1.7	69
98	Excitonic Feature in Hybrid Perovskite CH3NH3PbBr3 Single Crystals. <i>Chemistry Letters</i> , 2015 , 44, 852-8	8 5:4 7	43
97	Determination of Chloride Content in Planar CH3NH3PbI3\(\mathbb{B}\)Clx Solar Cells by Chemical Analysis. <i>Chemistry Letters</i> , 2015 , 44, 1089-1091	1.7	29
96	Photocurrent Enhancement of Formamidinium Lead Trihalide Mesoscopic Perovskite Solar Cells with Large Size TiO2 Nanoparticles. <i>Chemistry Letters</i> , 2015 , 44, 1619-1621	1.7	8
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