

Jingjing Chang

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.

242
papers

6,507
citations

44
h-index

67
g-index

259
ext. papers

7,967
ext. citations

7.2
avg, IF

6.32
L-index

#	Paper	IF	Citations
242	Promising applications of wide bandgap inorganic perovskites in underwater photovoltaic cells. <i>Solar Energy</i> , 2022 , 233, 489-493	6.8	3
241	Surface reconstruction strategy improves the all-inorganic CsPbI ₂ Br ₂ based perovskite solar cells and photodetectors performance. <i>Nano Energy</i> , 2022 , 94, 106960	17.1	8
240	Interfacial transport modulation by intrinsic potential difference of janus TMDs based on CsPbI ₂ /J-TMDs heterojunctions.. <i>IScience</i> , 2022 , 25, 103872	6.1	1
239	Defects and doping engineering towards high performance lead-free or lead-less perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022 , 68, 420-438	12	1
238	Combining in-situ formed PbI ₂ passivation and secondary passivation for highly efficient and stable planar heterojunction perovskite solar cells. <i>Organic Electronics</i> , 2022 , 100, 106361	3.5	2
237	Highly transparent flexible artificial nociceptor based on forming-free ITO memristor. <i>Applied Physics Letters</i> , 2022 , 120, 094103	3.4	1
236	Reveal the large open-circuit voltage deficit of all-inorganic CsPbI ₂ Br ₂ perovskite solar cells. <i>Chinese Physics B</i> , 2022 , 31, 038804	1.2	1
235	Unveiling the Relationship between Passivation Groups and the Structural and Optoelectronic Performances of Perovskite Surfaces and Devices. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 597-604	3.8	1
234	Recent Progress of Electrode Materials for Flexible Perovskite Solar Cells.. <i>Nano-Micro Letters</i> , 2022 , 14, 117	19.5	10
233	Flexible perovskite solar cells: Material selection and structure design. <i>Applied Physics Reviews</i> , 2022 , 9, 021307	17.3	4
232	Charge-selective-contact-dependent halide phase segregation in CsPbI ₂ Br ₂ perovskite solar cells and its correlation to device degradation. <i>Applied Surface Science</i> , 2022 , 595, 153544	6.7	1
231	Impacts of the Electron Transport Layer Surface Reconstruction on the Buried Interface in Perovskite Optoelectronic Devices. <i>Journal of Physical Chemistry Letters</i> , 2021 , 11834-11842	6.4	1
230	Reveal the Humidity Effect on the Phase Pure CsPbBr ₃ Single Crystals Formation at Room Temperature and Its Application for Ultrahigh Sensitive X-Ray Detector. <i>Advanced Science</i> , 2021 , e2103482	13.6	15
229	Generic water-based spray-assisted growth for scalable high-efficiency carbon-electrode all-inorganic perovskite solar cells. <i>IScience</i> , 2021 , 24, 103365	6.1	4
228	Slow halide exchange in CsPbI ₂ Br ₂ films for high-efficiency, carbon-based, all-inorganic perovskite solar cells. <i>Science China Materials</i> , 2021 , 64, 2107-2117	7.1	3
227	Improved Doping and Optoelectronic Properties of Zn-Doped CsPbBr ₃ Perovskite through Mn Codoping Approach. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3393-3400	6.4	18
226	Synergetic surface charge transfer doping and passivation toward high efficient and stable perovskite solar cells. <i>IScience</i> , 2021 , 24, 102276	6.1	19

225	Performance Improvement of All-Inorganic, Hole-Transport-Layer-Free Perovskite Solar Cells Through Dipoles-Adjustion by Polyethyleneimine Incorporating. <i>IEEE Electron Device Letters</i> , 2021 , 42, 537-540	4.4	1
224	An Exploration of All-Inorganic Perovskite/Gallium Arsenide Tandem Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100121	11	11
223	Special issue on Perovskite materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 12745-12745	4.1	12745
222	Lead halide-templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. <i>Science</i> , 2021 , 372, 1327-1332	33.3	113
221	Simple and Convenient Interface Modification by Nanosized Diamond for Carbon Based All-Inorganic CsPbI ₂ Br ₂ Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5661-5667	6.1	3
220	Annealing-Free, High-Performance Perovskite Solar Cells by Controlling Crystallization via Guanidinium Cation Doping. <i>Solar Rrl</i> , 2021 , 5, 2100097	7.1	3
219	Enhanced Efficiency and Stability of All-Inorganic CsPbI ₂ Br Perovskite Solar Cells by Organic and Ionic Mixed Passivation. <i>Advanced Science</i> , 2021 , 8, e2101367	13.6	27
218	Synergistic Interface Layer Optimization and Surface Passivation with Fluorocarbon Molecules toward Efficient and Stable Inverted Planar Perovskite Solar Cells. <i>Research</i> , 2021 , 2021, 9836752	7.8	8
217	Hf _{0.5} Zr _{0.5} O ₂ -based ferroelectric memristor with multilevel storage potential and artificial synaptic plasticity. <i>Science China Materials</i> , 2021 , 64, 727-738	7.1	11
216	Recent advances in resistive random access memory based on lead halide perovskite. <i>Informa[®] Materials</i> , 2021 , 3, 293-315	23.1	29
215	Enhanced efficiency and stability of planar perovskite solar cells using SnO ₂ :InCl ₃ electron transport layer through synergetic doping and passivation approaches. <i>Chemical Engineering Journal</i> , 2021 , 407, 127997	14.7	31
214	Reducing the acceptor levels of p-type EGa ₂ O ₃ by (metal, N) co-doping approach. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 157247	5.7	7
213	Multilevel oxygen-vacancy conductive filaments in EGaO based resistive random access memory. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 5975-5983	3.6	8
212	Suppressing Halide Phase Segregation in CsPbI ₂ Br Films by Polymer Modification for Hysteresis-Less All-Inorganic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2868-2878	9.5	11
211	Carbon-based, all-inorganic, lead-free Ag ₂ Bi ₅ ruderfite solar cells with high photovoltages. <i>Solid-State Electronics</i> , 2021 , 176, 107950	1.7	4
210	Synchronous Interface Modification and Bulk Passivation via a One-Step Cesium Bromide Diffusion Process for Highly Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10110-10119	8.5	7
209	Two-Dimensional (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ PbI ₄ Perovskite Single Crystal Resistive Switching Memory Devices. <i>IEEE Electron Device Letters</i> , 2021 , 42, 327-330	4.4	3
208	Influence of Oxygen on EGa ₂ O ₃ Films Deposited on Sapphire Substrates by MOCVD. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 075009	2	1

207	Secondary crystallization strategy for highly efficient inorganic CsPbI ₂ Br perovskite solar cells with efficiency approaching 17%. <i>Journal of Energy Chemistry</i> , 2021 , 63, 558-558	12	7
206	Sandwiched electrode buffer for efficient and stable perovskite solar cells with dual back surface fields. <i>Joule</i> , 2021 , 5, 2148-2163	27.8	18
205	Reducing the interfacial energy loss via oxide/perovskite heterojunction engineering for high efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 417, 129184	14.7	15
204	Aqueous solution-deposited aluminum-gallium-oxide alloy gate dielectrics for low voltage fully oxide thin film transistors. <i>Applied Physics Letters</i> , 2021 , 119, 112102	3.4	3
203	Tuning the intrinsic electric field of Janus-TMDs to realize high-performance E _{Ga} 2O ₃ device based on E _{Ga} 2O ₃ /Janus-TMD heterostructures. <i>Materials Today Physics</i> , 2021 , 21, 100549	8	4
202	A new all-inorganic vacancy-ordered double perovskite Cs ₂ CrI ₆ for high-performance photovoltaic cells and alpha-particle detection in space environment. <i>Materials Today Physics</i> , 2021 , 20, 100446	8	9
201	Recent progress of inorganic hole transport materials for efficient and stable perovskite solar cells. <i>Nano Select</i> , 2021 , 2, 1055-1080	3.1	7
200	97.3% Pb-Reduced CsPbGeBr Perovskite with Enhanced Phase Stability and Photovoltaic Performance through Surface Cu Doping. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1098-1103	6.4	10
199	Aqueous Solution Derived Amorphous Indium Doped Gallium Oxide Thin-Film Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 373-377	2.3	1
198	Improved Interface Contact for Highly Stable All-Inorganic CsPbI ₂ Br Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5173-5181	6.1	12
197	Contact barriers modulation of graphene/E _{Ga} 2O ₃ interface for high-performance Ga ₂ O ₃ devices. <i>Applied Surface Science</i> , 2020 , 527, 146740	6.7	12
196	Metal oxide heterojunctions for high performance solution grown oxide thin film transistors. <i>Applied Surface Science</i> , 2020 , 527, 146774	6.7	10
195	Suppressing intrinsic self-doping of CsPbI ₃ Br ₂ films for high-performance all-inorganic, carbon-based perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4506-4515	5.8	14
194	Enhanced efficiency and stability of planar perovskite solar cells by introducing amino acid to SnO ₂ /perovskite interface. <i>Journal of Power Sources</i> , 2020 , 455, 227974	8.9	49
193	Dual-Phase CsPbCl ₂ -CsPbCl Perovskite Films for Self-Powered, Visible-Blind UV Photodetectors with Fast Response. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32961-32969	9.5	73
192	Recent progress of two-dimensional lead halide perovskite single crystals: Crystal growth, physical properties, and device applications. <i>EcoMat</i> , 2020 , 2, e12036	9.4	36
191	Deep-Ultraviolet Photoactivation-Assisted Contact Engineering Toward High-Efficiency and Stable All-Inorganic CsPbI ₂ Br Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000001	7.1	25
190	Improving electron extraction ability and suppressing recombination of planar perovskite solar cells with the triple cascade electron transporting layer. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 208, 110419	6.4	4

189	Surface functionalization modulates the structural and optoelectronic properties of two-dimensional Ga ₂ O ₃ . <i>Materials Today Physics</i> , 2020 , 12, 100192	8	16
188	Toward High-Performance Electron/Hole-Transporting-Layer-Free, Self-Powered CsPbI ₃ Photodetectors via Interfacial Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6607-6614	9.5	15
187	High Performance Planar Structure Perovskite Solar Cells Using a Solvent Dripping Treatment on Hole Transporting Layer. <i>Coatings</i> , 2020 , 10, 127	2.9	7
186	NiO/Perovskite Heterojunction Contact Engineering for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903044	13.6	87
185	Interfacial Voids Trigger Carbon-Based, All-Inorganic CsPbI ₃ Perovskite Solar Cells with Photovoltage Exceeding 1.33V. <i>Nano-Micro Letters</i> , 2020 , 12, 87	19.5	61
184	Comparison of Ga ₂ O ₃ Films Grown on m- and r-plane Sapphire Substrates by MOCVD. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 125008	2	1
183	Transparent Ultrathin Metal Electrode with Microcavity Configuration for Highly Efficient TCO-Free Perovskite Solar Cells. <i>Materials</i> , 2020 , 13,	3.5	1
182	Modulation of the transport properties of metal/MoS interfaces using BN-graphene lateral tunneling layers. <i>Nanotechnology</i> , 2020 , 31, 485204	3.4	1
181	Improve the oxide/perovskite heterojunction contact for low temperature high efficiency and stable all-inorganic CsPbI ₂ Br perovskite solar cells. <i>Nano Energy</i> , 2020 , 67, 104241	17.1	68
180	Recycling of FTO/TiO Substrates: Route toward Simultaneously High-Performance and Cost-Efficient Carbon-Based, All-Inorganic CsPbI ₃ Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4549-4557	9.5	19
179	Enhancing Perovskite Solar Cell Performance through Surface Engineering of Metal Oxide Electron-Transporting Layer. <i>Coatings</i> , 2020 , 10, 46	2.9	3
178	Spontaneously Micropatterned Silk/Gelatin Scaffolds with Topographical, Biological, and Electrical Stimuli for Neuronal Regulation. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1144-1153	5.5	13
177	Sacrificial additive-assisted film growth endows self-powered CsPbBr ₃ photodetectors with ultra-low dark current and high sensitivity. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 209-218	7.1	14
176	Flux-mediated growth strategy enables low-temperature fabrication of high-efficiency all-inorganic CsPbI ₃ perovskite solar cells. <i>Electrochimica Acta</i> , 2020 , 330, 135325	6.7	19
175	Boosting performance of perovskite solar cells with Graphene quantum dots decorated SnO ₂ electron transport layers. <i>Applied Surface Science</i> , 2020 , 507, 145099	6.7	45
174	Tailored interfacial crystal facets for efficient CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Organic Electronics</i> , 2020 , 78, 105598	3.5	3
173	Dipole-templated homogeneous grain growth of CsPbI ₃ films for efficient self-powered, all-inorganic photodetectors. <i>Solar Energy</i> , 2020 , 209, 371-378	6.8	5
172	The crystal anisotropy effect of MAPbI ₃ perovskite on optoelectronic devices. <i>Materials Today Energy</i> , 2020 , 17, 100481	7	15

171	Ultrawide Band Gap Oxide Semiconductor-Triggered Performance Improvement of Perovskite Solar Cells via the Novel GaO/SnO Composite Electron-Transporting Bilayer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54703-54710	9.5	12
170	N-Substituted Phenothiazines as Environmentally Friendly Hole-Transporting Materials for Low-Cost and Highly Stable Halide Perovskite Solar Cells. <i>ACS Omega</i> , 2020 , 5, 23334-23342	3.9	5
169	High-Performance, Vacuum-Free, and Self-Powered CsPbI ₂ Br ₂ Photodetectors Boosted by Ultra-Wide-Bandgap Ga ₂ O ₃ Interlayer. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1532-1535	4.4	7
168	All-Inorganic CsPbI _x Br _{3-x} Perovskite Solar Cells: Crystal Anisotropy Effect. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000055	3.5	14
167	Polyelectrolyte-Doped SnO ₂ as a Tunable Electron Transport Layer for High-Efficiency and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900336	7.1	38
166	Combustion-processed NiO/ALD TiO ₂ bilayer as a novel low-temperature electron transporting material for efficient all-inorganic CsPbI ₂ Br ₂ solar cell. <i>Solar Energy</i> , 2020 , 203, 10-18	6.8	7
165	Highly efficient bifacial CsPbI ₂ Br solar cells with a TeO/Ag transparent electrode and unsymmetrical carrier transport behavior. <i>Dalton Transactions</i> , 2020 , 49, 6012-6019	4.3	9
164	Mechanical and thermodynamic properties of two-dimensional monoclinic Ga ₂ O ₃ . <i>Materials and Design</i> , 2019 , 184, 108197	8.1	17
163	Low temperature ZnO/TiO _x electron-transport layer processed from aqueous solution for highly efficient and stable planar perovskite solar cells. <i>Materials Today Energy</i> , 2019 , 14, 100351	7	8
162	Controllable Self-Assembly of PTCDI-C8 for High Mobility Low-Dimensional Organic Field-Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2030-2036	4	11
161	Numerical Simulation of Planar Heterojunction Perovskite Solar Cells Based on SnO ₂ Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4504-4512	6.1	49
160	Benign Pinholes in CsPbI ₂ Br ₂ Absorber Film Enable Efficient Carbon-Based, All-Inorganic Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5254-5262	6.1	26
159	Efficient NiO _x Hole Transporting Layer Obtained by the Oxidation of Metal Nickel Film for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4700-4707	6.1	23
158	Efficient planar perovskite solar cells with low-temperature atomic layer deposited TiO ₂ electron transport layer and interfacial modifier. <i>Solar Energy</i> , 2019 , 188, 239-246	6.8	16
157	An efficient TeO ₂ /Ag transparent top electrode for 20%-efficiency bifacial perovskite solar cells with a bifaciality factor exceeding 80%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15156-15163	13	26
156	Intermediate Phase Halide Exchange Strategy toward a High-Quality, Thick CsPbBr ₃ Film for Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22543-22549	9.5	19
155	Disappeared deep charge-states transition levels in the p-type intrinsic CsSnCl ₃ perovskite. <i>Applied Physics Letters</i> , 2019 , 114, 181902	3.4	17
154	Simultaneously enhanced performance and stability of inverted perovskite solar cells via a rational design of hole transport layer. <i>Organic Electronics</i> , 2019 , 73, 69-75	3.5	7

153	Performance enhancement of perovskite solar cells via material quality improvement assisted by MAI/IPA solution post-treatment. <i>Dalton Transactions</i> , 2019 , 48, 5292-5298	4.3	6
152	Theoretical Studies of Electronic and Optical Behaviors of All-Inorganic CsPbI ₃ and Two-Dimensional MS ₂ (M = Mo, W) Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7158-7165	3.8	16
151	Band Alignment Engineering Towards High Efficiency Carbon-Based Inorganic Planar CsPbI ₃ Perovskite Solar Cells. <i>ChemSusChem</i> , 2019 , 12, 2318-2325	8.3	82
150	Unusual properties and potential applications of strain BN-MS (M = Mo, W) heterostructures. <i>Scientific Reports</i> , 2019 , 9, 3518	4.9	9
149	Phenothiazine-Based Hole-Transporting Materials toward Eco-friendly Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3021-3027	6.1	28
148	Enhancing material quality and device performance of perovskite solar cells via a facile regrowth way assisted by the DMF/Chlorobenzene mixed solution. <i>Organic Electronics</i> , 2019 , 70, 300-305	3.5	5
147	Interface engineering of low temperature processed all-inorganic CsPbI ₂ Br perovskite solar cells toward PCE exceeding 14%. <i>Nano Energy</i> , 2019 , 60, 583-590	17.1	109
146	Low-Temperature Solution-Processed ZnO Electron Transport Layer for Highly Efficient and Stable Planar Perovskite Solar Cells with Efficiency Over 20%. <i>Solar Rrl</i> , 2019 , 3, 1900096	7.1	52
145	Potential Applications of Halide Double Perovskite CsAgInX (X = Cl, Br) in Flexible Optoelectronics: Unusual Effects of Uniaxial Strains. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1120-1125	6.4	20
144	Low temperature combustion synthesized indium oxide electron transport layer for high performance and stable perovskite solar cells. <i>Journal of Power Sources</i> , 2019 , 438, 226981	8.9	17
143	Highly Efficient and Stable Planar Perovskite Solar Cells with Modulated Diffusion Passivation Toward High Power Conversion Efficiency and Ultrahigh Fill Factor. <i>Solar Rrl</i> , 2019 , 3, 1900293	7.1	71
142	A Modulated Double-Passivation Strategy Toward Highly Efficient Perovskite Solar Cells with Efficiency Over 21%. <i>Solar Rrl</i> , 2019 , 3, 1900291	7.1	10
141	Understanding the Potential of 2D Ga ₂ O ₃ in Flexible Optoelectronic Devices: Impact of Uniaxial Strain and Electric Field. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900106	3.5	16
140	A 800 V Γ -Ga ₂ O ₃ Metal Oxide Semiconductor Field-Effect Transistor with High-Power Figure of Merit of Over 86.3 MW cm ⁻² . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900421	1.6	19
139	Efficient Ni/Au Mesh Transparent Electrodes for ITO-Free Planar Perovskite Solar Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	15
138	Beneficial Role of Organolead Halide Perovskite CH ₃ NH ₃ PbI ₃ /SnO ₂ Interface: Theoretical and Experimental Study. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900400	4.6	16
137	Theoretical Analysis of Two-Terminal and Four-Terminal Perovskite/Copper Indium Gallium Selenide Tandem Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900303	7.1	28
136	Achieving high performance and stable inverted planar perovskite solar cells using lithium and cobalt co-doped nickel oxide as hole transport layers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9270-9277	7.1	26

135	Interfacial TiO ₂ atomic layer deposition triggers simultaneous crystallization control and band alignment for efficient CsPbI ₂ Br ₂ perovskite solar cell. <i>Organic Electronics</i> , 2019 , 74, 103-109	3.5	21
134	A Review on Energy Band-Gap Engineering for Perovskite Photovoltaics. <i>Solar Rrl</i> , 2019 , 3, 1900304	7.1	41
133	Synthesis and Characterization of Oxygen-Embedded Quinoidal Pentacene and Nonacene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2169-2176	16.4	28
132	Optimizing the Performance of CsPbI ₃ -Based Perovskite Solar Cells via Doping a ZnO Electron Transport Layer Coupled with Interface Engineering. <i>Nano-Micro Letters</i> , 2019 , 11, 91	19.5	31
131	Light Processing Enables Efficient Carbon-Based, All-Inorganic Planar CsPbI ₂ Br Solar Cells with High Photovoltages. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2997-3005	9.5	81
130	Reducing Defects in Perovskite Solar Cells with White Light Illumination-Assisted Synthesis. <i>ACS Energy Letters</i> , 2019 , 4, 2821-2829	20.1	20
129	Pressure-Dependent Mechanical and Thermal Properties of Lead-Free Halide Double Perovskite Cs ₂ AgB ₂ X ₆ (B = In, Bi; X = Cl, Br, I). <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900164	3.5	7
128	A Facile Way to Improve the Performance of Perovskite Solar Cells by Toluene and Diethyl Ether Mixed Anti-Solvent Engineering. <i>Coatings</i> , 2019 , 9, 766	2.9	7
127	A Review on Energy Band-Gap Engineering for Perovskite Photovoltaics. <i>Solar Rrl</i> , 2019 , 3, 1970116	7.1	14
126	Understanding the transport and contact properties of metal/BN-MoS ₂ interfaces to realize high performance MoS ₂ FETs. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 1052-1061	5.7	6
125	Acenaphthylene-imide based small molecules/TiO ₂ bilayer as electron-transporting layer for solution-processing efficient perovskite solar cells. <i>Science China Materials</i> , 2019 , 62, 497-507	7.1	15
124	Device simulation of inverted CH ₃ NH ₃ PbI ₃ Cl _x perovskite solar cells based on PCBM electron transport layer and NiO hole transport layer. <i>Solar Energy</i> , 2018 , 169, 11-18	6.8	59
123	Room temperature ferroelectricity of hybrid organic/inorganic perovskites with mixed iodine and bromine. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9665-9676	13	21
122	A non-equilibrium Ti doping strategy for an efficient hematite electron transport layer in perovskite solar cells. <i>Dalton Transactions</i> , 2018 , 47, 6404-6411	4.3	5
121	Simultaneously enhanced durability and performance by employing dopamine copolymerized PEDOT with high work function and water-proofness for inverted perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2311-2318	7.1	24
120	Solution-processed high performance organic thin film transistors enabled by roll-to-roll slot die coating technique. <i>Organic Electronics</i> , 2018 , 54, 80-88	3.5	31
119	Elucidating the Roles of TiCl ₄ and PCBM Fullerene Treatment on TiO ₂ Electron Transporting Layer for Highly Efficient Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1044-1053	3.8	48
118	Enhanced planar perovskite solar cell efficiency and stability using a perovskite/PCBM heterojunction formed in one step. <i>Nanoscale</i> , 2018 , 10, 3053-3059	7.7	61

117	High-Performance Planar Perovskite Solar Cells Using Low Temperature, Solution Combustion-Based Nickel Oxide Hole Transporting Layer with Efficiency Exceeding 20%. <i>Advanced Energy Materials</i> , 2018 , 8, 1703432	21.8	209
116	Efficient Bifacial Semitransparent Perovskite Solar Cells Using Ag/VO as Transparent Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12731-12739	9.5	39
115	Investigation on the structural, morphological, electronic and photovoltaic properties of a perovskite thin film by introducing lithium halide.. <i>RSC Advances</i> , 2018 , 8, 11455-11461	3.7	4
114	Simulation Study Toward High-Performance Transparent-Conductive-Oxide Free Perovskite Solar Cells Using Metal Microcavity and Optical Coupling Layer. <i>IEEE Photonics Journal</i> , 2018 , 1-1	1.8	5
113	Inverted Organic Solar Cells with Low-Temperature Al-Doped-ZnO Electron Transport Layer Processed from Aqueous Solution. <i>Polymers</i> , 2018 , 10,	4.5	14
112	Enhanced Planar Perovskite Solar Cell Performance via Contact Passivation of TiO ₂ /Perovskite Interface with NaCl Doping Approach. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3826-3834	6.1	49
111	Highly efficient perovskite solar cells based on a dopant-free conjugated DPP polymer hole transport layer: influence of solvent vapor annealing. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2154-2159	5.8	15
110	Interface engineering of TiO ₂ /perovskite interface via fullerene derivatives for high performance planar perovskite solar cells. <i>Organic Electronics</i> , 2018 , 62, 459-467	3.5	20
109	Alleviating hysteresis and improving efficiency of MA _{1-x} FA _y PbI _{3-x} Br _x perovskite solar cells by controlling the halide composition. <i>Journal of Materials Science</i> , 2018 , 53, 16500-16510	4.3	8
108	Aged Precursor Solution toward Low-Temperature Fabrication of Efficient Carbon-Based All-Inorganic Planar CsPbI ₂ Br ₂ Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4991-4997	6.1	67
107	Effects of Interfacial Passivation on the Electrical Performance, Stability, and Contact Properties of Solution Process Based ZnO Thin Film Transistors. <i>Materials</i> , 2018 , 11,	3.5	16
106	Device Simulation of Organic/Inorganic Halide Perovskite/Crystalline Silicon Four-Terminal Tandem Solar Cell With Various Antireflection Materials. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1685-1691	3.7	18
105	Unusual Electronic and Optical Properties of Two-Dimensional Ga ₂ O ₃ Predicted by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24592-24599	3.8	34
104	Improving Electron Extraction Ability and Device Stability of Perovskite Solar Cells Using a Compatible PCBM/AZO Electron Transporting Bilayer. <i>Nanomaterials</i> , 2018 , 8,	5.4	23
103	Intermolecular Exchange Boosts Efficiency of Air-Stable, Carbon-Based All-Inorganic Planar CsPbI ₂ Br ₂ Perovskite Solar Cells to Over 9%. <i>Advanced Energy Materials</i> , 2018 , 8, 1802080	21.8	173
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101	Theoretical and Experimental Investigation of Mixed PbI ₃ Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15945-15953	3.8	15
100	Performance Enhancement of Planar Heterojunction Perovskite Solar Cells through Tuning the Doping Properties of Hole-Transporting Materials. <i>ACS Omega</i> , 2017 , 2, 326-336	3.9	55

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97	Efficient bifacial semitransparent perovskite solar cells with silver thin film electrode. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 170, 278-286	6.4	43
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90	Organic Field-Effect Transistor: Device Physics, Materials, and Process 2017 ,		3
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5	Impurity level properties in transition metal doped β -Ga ₂ O ₃ for optoelectronic applications. <i>Semiconductor Science and Technology</i> ,	1.8	3
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3	Cs ₂ TiI ₆ : A potential lead-free all-inorganic perovskite material for ultrahigh-performance photovoltaic cells and alpha-particle detection. <i>Nano Research</i> , 1	10	2
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