

Shengzhong Liu

List of Publications by Citations

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242
papers

15,013
citations

64
h-index

116
g-index

261
ext. papers

19,002
ext. citations

12.9
avg, IF

7.25
L-index

#	Paper	IF	Citations
242	Two-Inch-Sized Perovskite CH ₃ NH ₃ PbX ₃ (X = Cl, Br, I) Crystals: Growth and Characterization. <i>Advanced Materials</i> , 2015 , 27, 5176-83	24	746
241	High efficiency planar-type perovskite solar cells with negligible hysteresis using EDTA-complexed SnO. <i>Nature Communications</i> , 2018 , 9, 3239	17.4	721
240	Surface optimization to eliminate hysteresis for record efficiency planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 3071-3078	35.4	691
239	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , 2018 , 30, e1706576	24	505
238	High efficiency flexible perovskite solar cells using superior low temperature TiO ₂ . <i>Energy and Environmental Science</i> , 2015 , 8, 3208-3214	35.4	457
237	Hysteresis-Suppressed High-Efficiency Flexible Perovskite Solar Cells Using Solid-State Ionic-Liquids for Effective Electron Transport. <i>Advanced Materials</i> , 2016 , 28, 5206-13	24	326
236	All-inorganic cesium lead iodide perovskite solar cells with stabilized efficiency beyond 15. <i>Nature Communications</i> , 2018 , 9, 4544	17.4	296
235	Record Efficiency Stable Flexible Perovskite Solar Cell Using Effective Additive Assistant Strategy. <i>Advanced Materials</i> , 2018 , 30, e1801418	24	286
234	One-step hydrothermal synthesis of monolayer MoS ₂ quantum dots for highly efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10693-10697	13	260
233	3D/2D Interface Profiling for Record Efficiency All-Inorganic CsPbBr ₂ Perovskite Solar Cells with Superior Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1703246	21.8	256
232	Polymer Doping for High-Efficiency Perovskite Solar Cells with Improved Moisture Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1701757	21.8	233
231	Thinness- and Shape-Controlled Growth for Ultrathin Single-Crystalline Perovskite Wafers for Mass Production of Superior Photoelectronic Devices. <i>Advanced Materials</i> , 2016 , 28, 9204-9209	24	233
230	20-mm-Large Single-Crystalline Formamidinium-Perovskite Wafer for Mass Production of Integrated Photodetectors. <i>Advanced Optical Materials</i> , 2016 , 4, 1829-1837	8.1	233
229	Single atom tungsten doped ultrathin Ni(OH) ₂ for enhanced electrocatalytic water oxidation. <i>Nature Communications</i> , 2019 , 10, 2149	17.4	210
228	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
227	Precursor Engineering for All-Inorganic CsPbI ₂ Br Perovskite Solar Cells with 14.78% Efficiency. <i>Advanced Functional Materials</i> , 2018 , 28, 1803269	15.6	206
226	g-C ₃ N ₄ Loading Black Phosphorus Quantum Dot for Efficient and Stable Photocatalytic H ₂ Generation under Visible Light. <i>Advanced Functional Materials</i> , 2018 , 28, 1800668	15.6	192

225	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707166	24	192
224	Recent Advances in Flexible Perovskite Solar Cells: Fabrication and Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4466-4483	16.4	183
223	Controlled n-Doping in Air-Stable CsPbI ₂ Br Perovskite Solar Cells with a Record Efficiency of 16.79%. <i>Advanced Functional Materials</i> , 2020 , 30, 1909972	15.6	173
222	Reducing Detrimental Defects for High-Performance Metal Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6676-6698	16.4	171
221	β-Graphene Crosslinked CsPbI ₃ Quantum Dots for High Efficiency Solar Cells with Much Improved Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1800007	21.8	167
220	Alkali Metal Doping for Improved CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1700131	13.6	160
219	Recent Progress in Single-Crystalline Perovskite Research Including Crystal Preparation, Property Evaluation, and Applications. <i>Advanced Science</i> , 2018 , 5, 1700471	13.6	158
218	A 1300 mm Ultrahigh-Performance Digital Imaging Assembly using High-Quality Perovskite Single Crystals. <i>Advanced Materials</i> , 2018 , 30, e1707314	24	156
217	High performance ambient-air-stable FAPbI ₃ perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. <i>Energy and Environmental Science</i> , 2018 , 11, 3358-3366	35.4	154
216	Modulating crystal grain size and optoelectronic properties of perovskite films for solar cells by reaction temperature. <i>Nanoscale</i> , 2016 , 8, 3816-22	7.7	145
215	A Se-doped MoS ₂ nanosheet for improved hydrogen evolution reaction. <i>Chemical Communications</i> , 2015 , 51, 15997-6000	5.8	142
214	Nucleation-controlled growth of superior lead-free perovskite CsBiI ₃ single-crystals for high-performance X-ray detection. <i>Nature Communications</i> , 2020 , 11, 2304	17.4	139
213	Interface-Modification-Induced Gradient Energy Band for Highly Efficient CsPbI ₃ Br ₂ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803785	21.8	138
212	Tellurium-Assisted Epitaxial Growth of Large-Area, Highly Crystalline ReS ₂ Atomic Layers on Mica Substrate. <i>Advanced Materials</i> , 2016 , 28, 5019-24	24	138
211	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , 2018 , 9, 5302	17.4	136
210	Superior stability for perovskite solar cells with 20% efficiency using vacuum co-evaporation. <i>Nanoscale</i> , 2017 , 9, 12316-12323	7.7	135
209	Alternating precursor layer deposition for highly stable perovskite films towards efficient solar cells using vacuum deposition. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9401-9405	13	121
208	2D-MoO ₃ nanosheets for superior gas sensors. <i>Nanoscale</i> , 2016 , 8, 8696-703	7.7	116

207	Compositional Control in 2D Perovskites with Alternating Cations in the Interlayer Space for Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , 2019 , 31, e1903848	24	112
206	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2005776	15.6	111
205	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 7181-7190	11.5	110
204	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing. <i>Advanced Materials</i> , 2019 , 31, e1903889	24	106
203	A Novel Anion Doping for Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency of 15.56% and an Open Circuit Voltage of 1.30 V. <i>Advanced Energy Materials</i> , 2019 , 9, 1902279	21.8	105
202	Water-Soluble Triazolium Ionic-Liquid-Induced Surface Self-Assembly to Enhance the Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1900417	15.6	102
201	Fe(III) doped NiS ₂ nanosheet: a highly efficient and low-cost hydrogen evolution catalyst. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10173-10181	13	100
200	High-Efficiency Perovskite Solar Cells with Imidazolium-Based Ionic Liquid for Surface Passivation and Charge Transport. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4238-4244	16.4	98
199	NbF ₅ : A Novel Phase Stabilizer for FA-Based Perovskite Solar Cells with High Efficiency. <i>Advanced Functional Materials</i> , 2019 , 29, 1807850	15.6	97
198	Perovskite CH ₃ NH ₃ Pb(BrxI _{1-x}) ₃ single crystals with controlled composition for fine-tuned bandgap towards optimized optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9172-9178	7.1	95
197	ITIC surface modification to achieve synergistic electron transport layer enhancement for planar-type perovskite solar cells with efficiency exceeding 20%. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9514-9522	13	88
196	Printable CsPbI Perovskite Solar Cells with PCE of 19% via an Additive Strategy. <i>Advanced Materials</i> , 2020 , 32, e2001243	24	88
195	Stable ultra-fast broad-bandwidth photodetectors based on CsPbI perovskite and NaYF ₄ :Yb,Er quantum dots. <i>Nanoscale</i> , 2017 , 9, 6278-6285	7.7	84
194	Color-Tuned Perovskite Films Prepared for Efficient Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 42-47	3.8	83
193	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. <i>Nature Communications</i> , 2018 , 9, 3880	17.4	82
192	Two-dimensional (PEA) ₂ PbBr ₄ perovskite single crystals for a high performance UV-detector. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1584-1591	7.1	81
191	Synthesis of Large-Size 1TQReS Se Alloy Monolayer with Tunable Bandgap and Carrier Type. <i>Advanced Materials</i> , 2017 , 29, 1705015	24	80
190	Pt monolayer coating on complex network substrate with high catalytic activity for the hydrogen evolution reaction. <i>Science Advances</i> , 2015 , 1, e1400268	14.3	78

189	Iodine-Optimized Interface for Inorganic CsPbI ₃ Perovskite Solar Cell to Attain High Stabilized Efficiency Exceeding 14. <i>Advanced Science</i> , 2018 , 5, 1801123	13.6	76
188	Deposition and characterization of nanocrystalline diamond films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994 , 12, 1491-1495	2.9	75
187	Ruddlesden-Popper 2D Component to Stabilize CsPbI ₃ Perovskite Phase for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , 2019 , 9, 1902529	21.8	74
186	Nitrogen-doped graphene quantum dots for 80% photoluminescence quantum yield for inorganic CsPbI ₃ perovskite solar cells with efficiency beyond 16%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5740-5747	13	73
185	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
184	Low Temperature Fabrication for High Performance Flexible CsPbI ₃ Perovskite Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1801117	13.6	71
183	In Situ Synthesis of Few-Layered g-C ₃ N ₄ with Vertically Aligned MoS ₂ Loading for Boosting Solar-to-Hydrogen Generation. <i>Small</i> , 2018 , 14, 1703003	11	71
182	P Doped MoO ₃ Nanosheets as Efficient and Stable Electrocatalysts for Hydrogen Evolution. <i>Small</i> , 2017 , 13, 1700441	11	70
181	Precursor Engineering for Ambient-Compatible Antisolvent-Free Fabrication of High-Efficiency CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000691	21.8	68
180	Polar rotor scattering as atomic-level origin of low mobility and thermal conductivity of perovskite CH ₃ NH ₃ PbI ₃ . <i>Nature Communications</i> , 2017 , 8, 16086	17.4	67
179	High-Pressure Nitrogen-Extraction and Effective Passivation to Attain Highest Large-Area Perovskite Solar Module Efficiency. <i>Advanced Materials</i> , 2020 , 32, e2004979	24	65
178	High-performance transparent ultraviolet photodetectors based on inorganic perovskite CsPbCl ₃ nanocrystals. <i>RSC Advances</i> , 2017 , 7, 36722-36727	3.7	64
177	Triple-Cation and Mixed-Halide Perovskite Single Crystal for High-Performance X-ray Imaging. <i>Advanced Materials</i> , 2021 , 33, e2006010	24	64
176	Multitasking MXene Inks Enable High-Performance Printable Microelectrochemical Energy Storage Devices for All-Flexible Self-Powered Integrated Systems. <i>Advanced Materials</i> , 2021 , 33, e2005449	24	64
175	A review on the stability of inorganic metal halide perovskites: challenges and opportunities for stable solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 2090-2113	35.4	63
174	27%-Efficiency Four-Terminal Perovskite/Silicon Tandem Solar Cells by Sandwiched Gold Nanomesh. <i>Advanced Functional Materials</i> , 2020 , 30, 1908298	15.6	62
173	Europium and Acetate Co-doping Strategy for Developing Stable and Efficient CsPbI ₃ Br Perovskite Solar Cells. <i>Small</i> , 2019 , 15, e1904387	11	61
172	Polymeric room-temperature molten salt as a multifunctional additive toward highly efficient and stable inverted planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 5068-5079	35.4	61

171	Graphdiyne Quantum Dots for Much Improved Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701117	4.6	61
170	Additive Engineering to Grow Micron-Sized Grains for Stable High Efficiency Perovskite Solar Cells. <i>Advanced Science</i> , 2019 , 6, 1901241	13.6	60
169	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14896-14902	16.4	58
168	2D Cs ₂ PbI ₂ Cl ₂ Nanosheets for Holistic Passivation of Inorganic CsPbI ₂ Br Perovskite Solar Cells for Improved Efficiency and Stability. <i>Advanced Energy Materials</i> , 2020 , 10, 2002882	21.8	58
167	Low-temperature and facile solution-processed two-dimensional TiS ₂ as an effective electron transport layer for UV-stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9132-9138	13.56	56
166	Unveiling the Effects of Hydrolysis-Derived DMAI/DMAPI Intermediate Compound on the Performance of CsPbI ₃ Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1902868	13.6	54
165	Improved PEDOT:PSS/c-Si hybrid solar cell using inverted structure and effective passivation. <i>Scientific Reports</i> , 2016 , 6, 35091	4.9	53
164	Perovskite-a Perfect Top Cell for Tandem Devices to Break the S-Q Limit. <i>Advanced Science</i> , 2019 , 6, 1801304	13.04	52
163	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
162	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA _{0.85} MA _{0.15} PbI ₃ Perovskite Solar Cell with an Efficiency of 21.95%. <i>Solar Rrl</i> , 2019 , 3, 1900220	7.1	50
161	Rational Surface-Defect Control via Designed Passivation for High-Efficiency Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23164-23170	16.4	50
160	Air and thermally stable perovskite solar cells with CVD-graphene as the blocking layer. <i>Nanoscale</i> , 2017 , 9, 8274-8280	7.7	49
159	Novel Surface Passivation for Stable FA _{0.85} MA _{0.15} PbI ₃ Perovskite Solar Cells with 21.6% Efficiency. <i>Solar Rrl</i> , 2019 , 3, 1900072	7.1	49
158	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1095-1104	13	49
157	Metal Cations in Efficient Perovskite Solar Cells: Progress and Perspective. <i>Advanced Materials</i> , 2019 , 31, e1902037	24	48
156	Epitaxial growth of large-area and highly crystalline anisotropic ReSe ₂ atomic layer. <i>Nano Research</i> , 2017 , 10, 2732-2742	10	47
155	CsPbCl ₃ -Driven Low-Trap-Density Perovskite Grain Growth for >20% Solar Cell Efficiency. <i>Advanced Science</i> , 2018 , 5, 1800474	13.6	47
154	Superior adsorption performance for triphenylmethane dyes on 3D architectures assembled by ZnO nanosheets as thin as ~1.5nm. <i>Journal of Hazardous Materials</i> , 2016 , 318, 732-741	12.8	45

153	Facile synthesis of an iron doped rutile TiO ₂ photocatalyst for enhanced visible-light-driven water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21434-21438	13	44
152	High-throughput large-area vacuum deposition for high-performance formamidine-based perovskite solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 3035-3043	35.4	44
151	High Density and Unit Activity Integrated in Amorphous Catalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021 , 2, 2000096	8.7	42
150	Enhancing the Sensing Properties of TiO Nanosheets with Exposed {001} Facets by a Hydrogenation and Sensing Mechanism. <i>Inorganic Chemistry</i> , 2017 , 56, 1504-1510	5.1	41
149	Efficient perovskite solar cells via surface passivation by a multifunctional small organic ionic compound. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8313-8322	13	41
148	A High Mobility Conjugated Polymer Enables Air and Thermally Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency Exceeding 15%. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900311	6.8	39
147	40.1% Record Low-Light Solar-Cell Efficiency by Holistic Trap-Passivation using Micrometer-Thick Perovskite Film. <i>Advanced Materials</i> , 2021 , 33, e2100770	24	39
146	Record-Efficiency Flexible Perovskite Solar Cells Enabled by Multifunctional Organic Ions Interface Passivation.. <i>Advanced Materials</i> , 2022 , e2201681	24	39
145	Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite. <i>Advanced Functional Materials</i> , 2019 , 29, 1805553	15.6	37
144	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI ₃ : An In Situ Investigation. <i>Advanced Functional Materials</i> , 2019 , 29, 1807544	15.6	36
143	Large Lead-Free Perovskite Single Crystal for High-Performance Coplanar X-Ray Imaging Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 2000814	8.1	36
142	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
141	Earth-abundant elements doping for robust and stable solar-driven water splitting by FeOOH. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21478-21485	13	35
140	The humidity-insensitive fabrication of efficient CsPbI ₃ solar cells in ambient air. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26776-26784	13	35
139	Visible-light photocatalysis in Cu ₂ Se nanowires with exposed {111} facets and charge separation between (111) and (1[combining macron]1[combining macron]1[combining macron]) polar surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13280-9	3.6	34
138	Metal-Free Halide Perovskite Single Crystals with Very Long Charge Lifetimes for Efficient X-ray Imaging. <i>Advanced Materials</i> , 2020 , 32, e2003353	24	33
137	Pseudohalide (SCN) ⁻ -doped CsPbI ₃ for high-performance solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13736-13742	7.1	33
136	Extrinsic Ion Distribution Induced Field Effect in CsPbI ₃ Perovskite Solar Cells. <i>Small</i> , 2020 , 16, e1907283	31	32

135	Ultrastable Perovskite-Zeolite Composite Enabled by Encapsulation and In Situ Passivation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23100-23106	16.4	32
134	Solution Coating of Superior Large-Area Flexible Perovskite Thin Films with Controlled Crystal Packing. <i>Advanced Optical Materials</i> , 2017 , 5, 1700102	8.1	31
133	Chlorine-modified SnO ₂ electron transport layer for high-efficiency perovskite solar cells. <i>Information Materials</i> , 2020 , 2, 401-408	23.1	30
132	2D Perovskite Single Crystals with Suppressed Ion Migration for High-Performance Planar-Type Photodetectors. <i>Small</i> , 2020 , 16, e2003145	11	30
131	Solvent Engineering Using a Volatile Solid for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903250	13.6	29
130	Nitrogen-promoted molybdenum dioxide nanosheets for electrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12532-12540	13	29
129	Kesterite Cu ₂ Zn(Sn,Ge)(S,Se) ₄ thin film with controlled Ge-doping for photovoltaic application. <i>Nanoscale</i> , 2016 , 8, 10160-5	7.7	29
128	Recent advances in resistive random access memory based on lead halide perovskite. <i>Information Materials</i> , 2021 , 3, 293-315	23.1	29
127	A Special Additive Enables All Cations and Anions Passivation for Stable Perovskite Solar Cells with Efficiency over 23. <i>Nano-Micro Letters</i> , 2021 , 13, 169	19.5	29
126	Chemical Bath Deposition of Co-Doped TiO ₂ Electron Transport Layer for Hysteresis-Suppressed High-Efficiency Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900176	7.1	28
125	Defect Engineering in Earth-Abundant Cu ₂ ZnSn(S,Se) ₄ Photovoltaic Materials via Ga ³⁺ -Doping for over 12% Efficient Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2010325	15.6	28
124	Room-Temperature Partial Conversion of FAPbI ₃ Perovskite Phase via PbI ₂ Solvation Enables High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1907442	15.6	27
123	Enhanced Efficiency and Stability of All-Inorganic CsPbI ₃ Br Perovskite Solar Cells by Organic and Ionic Mixed Passivation. <i>Advanced Science</i> , 2021 , 8, e2101367	13.6	27
122	Hydrogenated nanotubes/nanowires assembled from TiO ₂ nanoflakes with exposed {111} facets: excellent photo-catalytic CO ₂ reduction activity and charge separation mechanism between (111) and () polar surfaces. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14761-14775	13	26
121	Stability of the CsPbI ₃ perovskite: from fundamentals to improvements. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11124-11144	13	26
120	Inch-sized high-quality perovskite single crystals by suppressing phase segregation for light-powered integrated circuits. <i>Science Advances</i> , 2021 , 7,	14.3	26
119	Air-stable phosphorus-doped molybdenum nitride for enhanced electrocatalytic hydrogen evolution. <i>Communications Chemistry</i> , 2018 , 1,	6.3	26
118	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

117	Dual Passivation of Perovskite and SnO for High-Efficiency MAPbI Perovskite Solar Cells. <i>Advanced Science</i> , 2021 , 8, 2001466	13.6	25
116	Shape- and Trap-Controlled Nanocrystals for Giant-Performance Improvement of All-Inorganic Perovskite Photodetectors. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700363	3.1	23
115	Breaking Platinum Nanoparticles to Single-Atomic Pt-C Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2541-2547	16.4	22
114	Effective solvent-additive enhanced crystallization and coverage of absorber layers for high efficiency formamidinium perovskite solar cells. <i>RSC Advances</i> , 2016 , 6, 56807-56811	3.7	21
113	Flexible Perowskit-Solarzellen: Herstellung und Anwendungen. <i>Angewandte Chemie</i> , 2019 , 131, 4512-4530	3.0	21
112	Molten-Salt-Assisted CsPbI Perovskite Crystallization for Nearly 20%-Efficiency Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2103770	24	21
111	Graphene oxide is a surprisingly good nucleation seed and adhesion promotion agent for one-step ZnO lithography and optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8956-8961	7.1	20
110	Film Formation Control for High Performance DionJacobson 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2002733	21.8	20
109	Single-crystalline lead halide perovskite wafers for high performance photodetectors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8357-8363	7.1	19
108	Ionic liquid treatment for highest-efficiency ambient printed stable all-inorganic CsPbI perovskite solar cells.. <i>Advanced Materials</i> , 2021 , e2106750	24	19
107	Ionic-Liquid-Perovskite Capping Layer for Stable 24.33%-Efficient Solar Cell. <i>Advanced Energy Materials</i> , 2022 , 12, 2103491	21.8	19
106	Synthesis of a nano-sized hybrid C ₃ N ₄ /TiO ₂ sample for enhanced and steady solar energy absorption and utilization. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 95-102	5.8	18
105	Defect suppression in multinary chalcogenide photovoltaic materials derived from kesterite: progress and outlook. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24920-24942	13	18
104	Aqueous MXene/PH1000 Hybrid Inks for Inkjet-Printing Micro-Supercapacitors with Unprecedented Volumetric Capacitance and Modular Self-Powered Microelectronics. <i>Advanced Energy Materials</i> , 2021 , 11, 2100746	21.8	18
103	Enhanced Efficiency of Inorganic CsPbI _{3-x} Br _x Perovskite Solar Cell via Self-Regulation of Antisite Defects. <i>Advanced Energy Materials</i> , 2021 , 11, 2100403	21.8	18
102	-Phenylenediammonium as a New Spacer for Dion-Jacobson Two-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12063-12073	16.4	18
101	A straightforward chemical approach for excellent InS electron transport layer for high-efficiency perovskite solar cells.. <i>RSC Advances</i> , 2019 , 9, 884-890	3.7	17
100	In-Situ Hot Oxygen Cleansing and Passivation for All-Inorganic Perovskite Solar Cells Deposited in Ambient to Breakthrough 19% Efficiency. <i>Advanced Functional Materials</i> , 2021 , 31, 2101568	15.6	17

99	Room-Temperature Surface Sulfurization for High-Performance Kesterite CZTSe Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800236	7.1	17
98	Superior Textured Film and Process Tolerance Enabled by Intermediate-State Engineering for High-Efficiency Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903009	13.6	16
97	PbTiO ₃ as Electron-Selective Layer for High-Efficiency Perovskite Solar Cells: Enhanced Electron Extraction via Tunable Ferroelectric Polarization. <i>Advanced Functional Materials</i> , 2019 , 29, 1806427	15.6	16
96	Interfaces and Interfacial Layers in Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26440-26453	16.4	16
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