

Jingjing Chang

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papers

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259
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ext. citations

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avg, IF

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#	Paper	IF	Citations
242	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
241	Intermolecular Exchange Boosts Efficiency of Air-Stable, Carbon-Based All-Inorganic Planar CsPbI ₂ Br Perovskite Solar Cells to Over 9%. <i>Advanced Energy Materials</i> , 2018 , 8, 1802080	21.8	173
240	A simple and efficient solar cell parameter extraction method from a single current-voltage curve. <i>Journal of Applied Physics</i> , 2011 , 110, 064504	2.5	172
239	Transparent conductive oxide-free perovskite solar cells with PEDOT:PSS as transparent electrode. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15314-20	9.5	169
238	Efficiency enhancement of planar perovskite solar cells by adding zwitterion/LiF double interlayers for electron collection. <i>Nanoscale</i> , 2015 , 7, 896-900	7.7	119
237	Enhancing the photovoltaic performance of planar heterojunction perovskite solar cells by doping the perovskite layer with alkali metal ions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16546-16552	13	119
236	Boosting the performance of planar heterojunction perovskite solar cell by controlling the precursor purity of perovskite materials. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 887-893	13	117
235	Lead halide-templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. <i>Science</i> , 2021 , 372, 1327-1332	33.3	113
234	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
233	Development of inverted organic solar cells with TiO ₂ interface layer by using low-temperature atomic layer deposition. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 713-8	9.5	108
232	Controlled growth of large-area high-performance small-molecule organic single-crystalline transistors by slot-die coating using a mixed solvent system. <i>Advanced Materials</i> , 2013 , 25, 6442-7	24	108
231	Mixed-solvent-vapor annealing of perovskite for photovoltaic device efficiency enhancement. <i>Nano Energy</i> , 2016 , 28, 417-425	17.1	90
230	NiO/Perovskite Heterojunction Contact Engineering for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903044	13.6	87
229	Band Alignment Engineering Towards High Efficiency Carbon-Based Inorganic Planar CsPbI ₂ Br Perovskite Solar Cells. <i>ChemSusChem</i> , 2019 , 12, 2318-2325	8.3	82
228	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
227	Stepwise cyanation of naphthalene diimide for n-channel field-effect transistors. <i>Organic Letters</i> , 2012 , 14, 2964-7	6.2	80
226	Enhancing the planar heterojunction perovskite solar cell performance through tuning the precursor ratio. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7943-7949	13	79

225	Dual-Phase CsPbCl ₂ -CsPbCl ₃ 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
224	Effects of organic inorganic hybrid perovskite materials on the electronic properties and morphology of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and the photovoltaic performance of planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15897-15904	13	71
223	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
222	Thiophene-fused tetracene diimide with low band gap and ambipolar behavior. <i>Organic Letters</i> , 2011 , 13, 5960-3	6.2	71
221	Enhanced efficiency of planar perovskite solar cells via a two-step deposition using DMF as an additive to optimize the crystal growth behavior. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13032-13038 ¹³		69
220	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
219	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
218	Linear and star-shaped pyrazine-containing acene dicarboximides with high electron-affinity. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 7045-52	3.9	66
217	Improving the efficiency and stability of inverted perovskite solar cells with dopamine-copolymerized PEDOT:PSS as a hole extraction layer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13817-13822	13	63
216	Bisindeno-annulated pentacenes with exceptionally high photo-stability and ordered molecular packing: simple synthesis by a regio-selective Scholl reaction. <i>Chemical Communications</i> , 2015 , 51, 3604-7 ^{5.8}		62
215	Interfacial Voids Trigger Carbon-Based, All-Inorganic CsPbI ₂ Br Perovskite Solar Cells with Photovoltage Exceeding 1.33V. <i>Nano-Micro Letters</i> , 2020 , 12, 87	19.5	61
214	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
213	Cyanated diazatetracene diimides with ultrahigh electron affinity for n-channel field effect transistors. <i>Organic Letters</i> , 2013 , 15, 1194-7	6.2	61
212	Device simulation of inverted CH ₃ NH ₃ PbI _{3-x} 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
211	Solution-processed LiF-doped ZnO films for high performance low temperature field effect transistors and inverted solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6687-93	9.5	56
210	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
209	Antiaromatic bisindeno-[n]thienoacenes with small singlet biradical characters: syntheses, structures and chain length dependent physical properties. <i>Chemical Science</i> , 2014 , 5, 4490-4503	9.4	53
208	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

207	Dianthraceno[a,e]pentalenes: synthesis, crystallographic structures and applications in organic field-effect transistors. <i>Chemical Communications</i> , 2015 , 51, 503-6	5.8	52
206	Disc-like 7, 14-dicyano-ovalene-3,4:10,11-bis(dicarboximide) as a solution-processible n-type semiconductor for air stable field-effect transistors. <i>Chemical Science</i> , 2012 , 3, 846-850	9.4	50
205	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
204	Solution processed F doped ZnO (ZnO:F) for thin film transistors and improved stability through co-doping with alkali metals. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1787-1793	7.1	49
203	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
202	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
201	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
200	Z-Shaped Pentaleno-Acene Dimers with High Stability and Small Band Gap. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2693-6	16.4	46
199	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
198	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
197	A work-function tunable polyelectrolyte complex (PEI:PSS) as a cathode interfacial layer for inverted organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7788-7794	13	42
196	A Review on Energy Band-Gap Engineering for Perovskite Photovoltaics. <i>Solar Rrl</i> , 2019 , 3, 1900304	7.1	41
195	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
194	Stable 7,14-disubstituted-5,12-dithiapentacenes with quinoidal conjugation. <i>Organic Letters</i> , 2014 , 16, 3966-9	6.2	39
193	Elucidating the charge carrier transport and extraction in planar heterojunction perovskite solar cells by Kelvin probe force microscopy. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17464-17472	13	38
192	Interface studies of the planar heterojunction perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 783-790	6.4	38
191	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
190	Hole mobility of 3.56 cm ² V ⁻¹ s ⁻¹ accomplished using more extended dithienothiophene with furan flanked diketopyrrolopyrrole polymer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9299-9305	7.1	37

189	Nitrogen and sulfur co-doped graphene aerogels as an efficient metal-free catalyst for oxygen reduction reaction in an alkaline solution. <i>RSC Advances</i> , 2016 , 6, 22781-22790	3.7	37
188	High-Efficiency (>14%) and Air-Stable Carbon-Based, All-Inorganic CsPbI ₂ Br Perovskite Solar Cells through a Top-Seeded Growth Strategy. <i>ACS Energy Letters</i> , 1500-1510	20.1	37
187	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
186	Structures and properties of polyimide fibers containing ether units. <i>Journal of Materials Science</i> , 2015 , 50, 4104-4114	4.3	35
185	A two-layer structured PBI ₂ thin film for efficient planar perovskite solar cells. <i>Nanoscale</i> , 2015 , 7, 12092-12097	7.5	34
184	Enhanced inverted organic solar cell performance by post-treatments of solution-processed ZnO buffer layers. <i>RSC Advances</i> , 2014 , 4, 6646	3.7	34
183	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
182	Low temperature aqueous solution-processed Li doped ZnO buffer layers for high performance inverted organic solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6169-6175	7.1	33
181	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
180	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
179	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
178	Enhanced Polymer Thin Film Transistor Performance by Carefully Controlling the Solution Self-Assembly and Film Alignment with Slot Die Coating. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500036	6.4	30
177	Recent advances in resistive random access memory based on lead halide perovskite. <i>Information Materials</i> , 2021 , 3, 293-315	23.1	29
176	Phenothiazine-Based Hole-Transporting Materials toward Eco-friendly Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3021-3027	6.1	28
175	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
174	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
173	Large core-expanded triazatruxene-based discotic liquid crystals: synthesis, characterization and physical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13180		28
172	Inverted Organic Photovoltaic Cells with Solution-Processed Zinc Oxide as Electron Collecting Layer. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 082302	1.4	28

- 171 Water induced zinc oxide thin film formation and its transistor performance. *Journal of Materials Chemistry C*, **2014**, 2, 5397-5403 7.1 27
- 170 6,13-Dicyano pentacene-2,3:9,10-bis(dicarboximide) for solution-processed air-stable n-channel field effect transistors and complementary circuit. *Journal of Materials Chemistry C*, **2013**, 1, 456-462 7.1 27
- 169 Thiophene-tetrafluorophenyl-thiophene: a promising building block for ambipolar organic field effect transistors. *Journal of Materials Chemistry C*, **2015**, 3, 2080-2085 7.1 27
- 168 Incorporating TCNQ into thiophene-fused heptacene for n-channel field effect transistor. *Organic Letters*, **2012**, 14, 2786-9 6.2 27
- 167 Enhanced Efficiency and Stability of All-Inorganic CsPbI₃ Br Perovskite Solar Cells by Organic and Ionic Mixed Passivation. *Advanced Science*, **2021**, 8, e2101367 13.6 27
- 166 Benign Pinholes in CsPbI₃Br₂ Absorber Film Enable Efficient Carbon-Based, All-Inorganic Perovskite Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 5254-5262 6.1 26
- 165 An efficient TeO₂/Ag transparent top electrode for 20%-efficiency bifacial perovskite solar cells with a bifaciality factor exceeding 80%. *Journal of Materials Chemistry A*, **2019**, 7, 15156-15163 13 26
- 164 Achieving high performance and stable inverted planar perovskite solar cells using lithium and cobalt co-doped nickel oxide as hole transport layers. *Journal of Materials Chemistry C*, **2019**, 7, 9270-9277¹ 7.1 26
- 163 Structures and properties of polyimide fibers containing fluorine groups. *RSC Advances*, **2015**, 5, 71425-71432 7.1 25
- 162 Effect of pre-imidization on the structures and properties of polyimide fibers. *RSC Advances*, **2015**, 5, 69555-69566 3.7 25
- 161 Thienoacene-fused pentalenes: syntheses, structures, physical properties and applications for organic field-effect transistors. *Chemistry - A European Journal*, **2015**, 21, 2019-28 4.8 25
- 160 Deep-Ultraviolet Photoactivation-Assisted Contact Engineering Toward High-Efficiency and Stable All-Inorganic CsPbI₂Br Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2000001 7.1 25
- 159 Improvement of transparent silver thin film anodes for organic solar cells with a decreased percolation threshold of silver. *Solar Energy Materials and Solar Cells*, **2014**, 127, 193-200 6.4 25
- 158 Simultaneously enhanced durability and performance by employing dopamine copolymerized PEDOT with high work function and water-proofness for inverted perovskite solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 2311-2318 7.1 24
- 157 Efficient NiO_x Hole Transporting Layer Obtained by the Oxidation of Metal Nickel Film for Perovskite Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 4700-4707 6.1 23
- 156 Diacenopentalene dicarboximides as new n-type organic semiconductors for field-effect transistors. *Journal of Materials Chemistry C*, **2016**, 4, 8758-8764 7.1 23
- 155 Effects of Annealing Conditions on Mixed Lead Halide Perovskite Solar Cells and Their Thermal Stability Investigation. *Materials*, **2017**, 10, 3.5 23
- 154 Solution-processable n-type and ambipolar semiconductors based on a fused cyclopentadithiophenebis(dicyanovinylene) core. *Chemical Communications*, **2013**, 49, 7135-7 5.8 23

153	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
152	High-Mobility Ambipolar Organic Thin-Film Transistor Processed From a Nonchlorinated Solvent. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24325-30	9.5	22
151	Effect of polyelectrolyte interlayer on efficiency and stability of p-i-n perovskite solar cells. <i>Solar Energy</i> , 2016 , 139, 190-198	6.8	22
150	Effect of ultraviolet absorptivity and waterproofness of poly(3,4-ethylenedioxythiophene) with extremely weak acidity, high conductivity on enhanced stability of perovskite solar cells. <i>Journal of Power Sources</i> , 2017 , 358, 29-38	8.9	21
149	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
148	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
147	Efficient "light-soaking"-free inverted organic solar cells with aqueous solution processed low-temperature ZnO electron extraction layers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13318-24	9.5	21
146	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
145	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
144	Reducing Defects in Perovskite Solar Cells with White Light Illumination-Assisted Synthesis. <i>ACS Energy Letters</i> , 2019 , 4, 2821-2829	20.1	20
143	TiO _x /Al bilayer as cathode buffer layer for inverted organic solar cell. <i>Applied Physics Letters</i> , 2013 , 103, 173303	3.4	20
142	Performance Comparison of Conventional and Inverted Organic Bulk Heterojunction Solar Cells From Optical and Electrical Aspects. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 451-457	2.9	20
141	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
140	A 800 V 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	15.6	19
139	Recycling of FTO/TiO ₂ Substrates: Route toward Simultaneously High-Performance and Cost-Efficient Carbon-Based, All-Inorganic CsPbI ₂ Br ₂ Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4549-4557	9.5	19
138	Flux-mediated growth strategy enables low-temperature fabrication of high-efficiency all-inorganic CsPbI ₂ Br ₂ perovskite solar cells. <i>Electrochimica Acta</i> , 2020 , 330, 135325	6.7	19
137	Synergetic surface charge transfer doping and passivation toward high efficient and stable perovskite solar cells. <i>IScience</i> , 2021 , 24, 102276	6.1	19
136	Pro-aromatic bisphenaleno-thieno[3,2-b]thiophene versus anti-aromatic bisindeno-thieno[3,2-b]thiophene: different ground-state properties and applications in field-effect transistors. <i>Chemical Communications</i> , 2015 , 51, 13178-80	5.8	18

135	A PCBM-Modified TiO ₂ Blocking Layer towards Efficient Perovskite Solar Cells. <i>International Journal of Photoenergy</i> , 2017 , 2017, 1-9	2.1	18
134	Enhanced planar heterojunction perovskite solar cell performance and stability using PDDA polyelectrolyte capping agent. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 172, 133-139	6.4	18
133	Investigation of Fe ²⁺ -incorporating organic/inorganic hybrid perovskites from first principles and experiments. <i>RSC Advances</i> , 2017 , 7, 54586-54593	3.7	18
132	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
131	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
130	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
129	Mechanical and thermodynamic properties of two-dimensional monoclinic Ga ₂ O ₃ . <i>Materials and Design</i> , 2019 , 184, 108197	8.1	17
128	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
127	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
126	High-Performance Simple-Structured Planar Heterojunction Perovskite Solar Cells Achieved by Precursor Optimization. <i>ACS Omega</i> , 2017 , 2, 6250-6258	3.9	16
125	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
124	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
123	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
122	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
121	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
120	Bright red-emitting polymer dots for specific cellular imaging. <i>Journal of Materials Science</i> , 2015 , 50, 5571-5577	4.3	16
119	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
118	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

117	Controlling aggregation and crystallization of solution processed diketopyrrolopyrrole based polymer for high performance thin film transistors by pre-metered slot die coating process. <i>Organic Electronics</i> , 2016 , 36, 113-119	3.5	15
116	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
115	Efficient Ni/Au Mesh Transparent Electrodes for ITO-Free Planar Perovskite Solar Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	15
114	Improve the operational stability of the inverted organic solar cells using bilayer metal oxide structure. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18861-7	9.5	15
113	High efficient ITO free inverted organic solar cells based on ultrathin Ca modified AZO cathode and their light soaking issue. <i>Organic Electronics</i> , 2014 , 15, 3006-3015	3.5	15
112	Solution-processable n-type semiconductors based on unsymmetrical naphthalene imides: synthesis, characterization, and applications in field-effect transistors. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 253-60	4.5	15
111	Reveal the Humidity Effect on the Phase Pure CsPbBr Single Crystals Formation at Room Temperature and Its Application for Ultrahigh Sensitive X-Ray Detector. <i>Advanced Science</i> , 2021 , e2103482	13.6	15
110	The crystal anisotropy effect of MAPbI ₃ perovskite on optoelectronic devices. <i>Materials Today Energy</i> , 2020 , 17, 100481	7	15
109	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
108	Theoretical and Experimental Investigation of Mixed PbIn Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15945-15953	3.8	15
107	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
106	Suppressing intrinsic self-doping of CsPbI ₂ 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
105	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
104	High performance transient organic solar cells on biodegradable polyvinyl alcohol composite substrates. <i>RSC Advances</i> , 2017 , 7, 52930-52937	3.7	14
103	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
102	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
101	A Review on Energy Band-Gap Engineering for Perovskite Photovoltaics. <i>Solar Rrl</i> , 2019 , 3, 1970116	7.1	14
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