

Hin-Lap Yip

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.

270
papers

28,472
citations

89
h-index

164
g-index

284
ext. papers

32,390
ext. citations

13.5
avg, IF

7.44
L-index

#	Paper	IF	Citations
270	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022 , 6, 8-15	27.8	14
269	Perovskite/Organic Hybrid White Electroluminescent Devices with Stable Spectrum and Extended Operating Lifetime. <i>ACS Energy Letters</i> , 2022 , 7, 523-532	20.1	2
268	Enabling high-performance, centimeter-scale organic solar cells through three-dimensional charge transport. <i>Cell Reports Physical Science</i> , 2022 , 100761	6.1	0
267	Unravelling Alkali-Metal-Assisted Domain Distribution of Quasi-2D Perovskites for Cascade Energy Transfer toward Efficient Blue Light-Emitting Diodes.. <i>Advanced Science</i> , 2022 , e2200393	13.6	8
266	Advances in Dion-Jacobson phase two-dimensional metal halide perovskite solar cells. <i>Nanophotonics</i> , 2021 , 10, 2069-2102	6.3	13
265	The evolution and future of metal halide perovskite-based optoelectronic devices. <i>Matter</i> , 2021 , 4, 3814-3834	13.4	6
264	Emissive Charge-Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Non-Radiative Recombination and High-Performance Photodetectors. <i>Advanced Materials</i> , 2021 , e2104654	24	3
263	Synthesis and photovoltaic performance of a non-fullerene acceptor comprising siloxane-terminated alkoxy side chain. <i>Organic Electronics</i> , 2021 , 91, 106087	3.5	5
262	Materials, photophysics and device engineering of perovskite light-emitting diodes. <i>Reports on Progress in Physics</i> , 2021 , 84,	14.4	18
261	Metal-Halide Perovskite Crystallization Kinetics: A Review of Experimental and Theoretical Studies. <i>Advanced Energy Materials</i> , 2021 , 11, 2100784	21.8	10
260	Architecturing 1D-2D-3D Multidimensional Coupled CsPbI Br Perovskites toward Highly Effective and Stable Solar Cells. <i>Small</i> , 2021 , 17, e2100888	11	6
259	Tandem Organic Solar Cells with 18.7% Efficiency Enabled by Suppressing the Charge Recombination in Front Sub-Cell. <i>Advanced Functional Materials</i> , 2021 , 31, 2103283	15.6	42
258	Surpassing 13% Efficiency for Polythiophene Organic Solar Cells Processed from Nonhalogenated Solvent. <i>Advanced Materials</i> , 2021 , 33, e2008158	24	39
257	Molecularly Engineered Interfaces in Metal Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4882-4901	6.4	7
256	High-Performance Upscaled Indium Tin Oxide/Bree Organic Solar Cells with Visual Esthetics and Flexibility. <i>Solar Rrl</i> , 2021 , 5, 2100339	7.1	3
255	Suppressing Ion Migration across Perovskite Grain Boundaries by Polymer Additives. <i>Advanced Functional Materials</i> , 2021 , 31, 2006802	15.6	33
254	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021 , 11, 2002774	21.8	56

253	Utilization of Trapped Optical Modes for White Perovskite Light-Emitting Diodes with Efficiency over 12%. <i>Joule</i> , 2021 , 5, 456-466	27.8	37
252	Improving the performance of all-inorganic perovskite light-emitting diodes through using polymeric interlayers with a pendant design. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 7199-7207	7.8	0
251	High-Performance Semi-Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. <i>Advanced Energy Materials</i> , 2021 , 11, 2003408	21.8	20
250	D-A-EA-D-type Dopant-free Hole Transport Material for Low-Cost, Efficient, and Stable Perovskite Solar Cells. <i>Joule</i> , 2021 , 5, 249-269	27.8	70
249	Color-Stable Deep-Blue Perovskite Light-Emitting Diodes Based on Organotrchlorosilane Post-Treatment. <i>Advanced Functional Materials</i> , 2021 , 31, 2103219	15.6	10
248	Flexibility of Room-Temperature-Synthesized Amorphous CdO-InO Alloy Films and Their Application as Transparent Conductors in Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43795-43805	9.5	1
247	Quantification of Temperature-Dependent Charge Separation and Recombination Dynamics in Non-Fullerene Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2021 , 31, 2107157	15.6	4
246	Inkjet-Printed Full-Color Matrix Quasi-Two-Dimensional Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41773-41781	9.5	8
245	Semitransparent organic solar cells based on all-low-bandgap donor and acceptor materials and their performance potential. <i>Materials Today Energy</i> , 2021 , 21, 100807	7	7
244	Perovskite Light-Emitting Diodes with EQE Exceeding 28% through a Synergetic Dual-Additive Strategy for Defect Passivation and Nanostructure Regulation. <i>Advanced Materials</i> , 2021 , 33, e2103268	24	94
243	Monolithic perovskite/organic tandem solar cells: Developments, prospects, and challenges. <i>Nano Select</i> , 2021 , 2, 1266-1276	3.1	7
242	Long-lived and disorder-free charge transfer states enable endothermic charge separation in efficient non-fullerene organic solar cells. <i>Nature Communications</i> , 2020 , 11, 5617	17.4	38
241	Inkjet Printing Matrix Perovskite Quantum Dot Light-Emitting Devices. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000099	6.8	20
240	Toward Efficient Triple-Junction Polymer Solar Cells through Rational Selection of Middle Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1771-1779	20.1	13
239	Composition Engineering of All-Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001764	15.6	42
238	Fibril Network Strategy Enables High-Performance Semitransparent Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2002181	15.6	61
237	Co-Interlayer Engineering toward Efficient Green Quasi-Two-Dimensional Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1910167	15.6	26
236	Semitransparent perovskite solar cells for smart windows. <i>Science Bulletin</i> , 2020 , 65, 980-982	10.6	15

235	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1371-1379	20.1	83
234	Progress of the key materials for organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 758-765	7.9	101
233	High-Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and See-Through Functions. <i>Advanced Materials</i> , 2020 , 32, e2001621	24	82
232	3,4-Dicyanothiophene—Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1904247	21.8	35
231	Roll-to-roll printed high voltage supercapattery in lead-contaminated aqueous electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5597-5603	3.6	1
230	High-Performance Ternary Organic Solar Cells with Controllable Morphology via Sequential Layer-by-Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13077-13086	9.5	41
229	Dopant-Free Organic Hole-Transporting Material for Efficient and Stable Inverted All-Inorganic and Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1908011	24	120
228	FA-Assistant Iodide Coordination in Organic-Inorganic Wide-Bandgap Perovskite with Mixed Halides. <i>Small</i> , 2020 , 16, e1907226	11	22
227	Inorganic Halide Perovskite Solar Cells: Progress and Challenges. <i>Advanced Energy Materials</i> , 2020 , 10, 2000183	21.8	111
226	Progress of the key materials for organic solar cells. <i>Scientia Sinica Chimica</i> , 2020 , 50, 437-446	1.6	4
225	Performance optimization of tandem organic solar cells at varying incident angles based on optical analysis method. <i>Optics Express</i> , 2020 , 28, 2381-2397	3.3	4
224	Blue Perovskite Light-emitting Diodes: Opportunities and Challenges. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2009002-0	3.8	6
223	Multifunctional semitransparent organic solar cells with excellent infrared photon rejection. <i>Chinese Chemical Letters</i> , 2020 , 31, 1608-1611	8.1	20
222	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. <i>Nature Communications</i> , 2020 , 11, 177	17.4	200
221	Self-Stimulated Dissociation in Non-Fullerene Organic Bulk-Heterojunction Solar Cells. <i>Joule</i> , 2020 , 4, 2443-2457	27.8	15
220	Planar Heterojunction Organic Photodetectors Based on Fullerene and Non-fullerene Acceptor Bilayers for a Tunable Spectral Response. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55064-55071	9.5	7
219	Delocalization of exciton and electron wavefunction in non-fullerene acceptor molecules enables efficient organic solar cells. <i>Nature Communications</i> , 2020 , 11, 3943	17.4	222
218	Efficient monolithic perovskite/organic tandem solar cells and their efficiency potential. <i>Nano Energy</i> , 2020 , 78, 105238	17.1	34

217	Semitransparent Organic Solar Cells with Vivid Colors. <i>ACS Energy Letters</i> , 2020 , 5, 3115-3123	20.1	43
216	Electrocatalytic reduction of oxygen at platinum nanoparticles dispersed on electrochemically reduced graphene oxide/PEDOT:PSS composites.. <i>RSC Advances</i> , 2020 , 10, 30519-30528	3.7	2
215	Toward Efficient Tandem Organic Solar Cells: From Materials to Device Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39937-39947	9.5	11
214	Conformation modification of terthiophene during the on-surface synthesis of pure polythiophene. <i>Nanoscale</i> , 2020 , 12, 18096-18105	7.7	0
213	Effects of ZnI ₂ doping on the performance of methylammonium-free perovskite solar cells. <i>Journal of Applied Physics</i> , 2020 , 128, 043102	2.5	7
212	Interface-enhanced organic solar cells with extrapolated T80 lifetimes of over 20 years. <i>Science Bulletin</i> , 2020 , 65, 208-216	10.6	90
211	Graded 2D/3D Perovskite Heterostructure for Efficient and Operationally Stable MA-Free Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2000571	24	95
210	Engineering of perovskite light-emitting diodes based on quasi-2D perovskites formed by diamine cations. <i>Organic Electronics</i> , 2019 , 75, 105400	3.5	12
209	High-performance and stable CsPbBr light-emitting diodes based on polymer additive treatment.. <i>RSC Advances</i> , 2019 , 9, 27684-27691	3.7	17
208	Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. <i>Nature Communications</i> , 2019 , 10, 4100	17.4	96
207	Backbone Fluorination of Polythiophenes Improves Device Performance of Non-Fullerene Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7572-7583	6.1	21
206	Highly stable enhanced near-infrared amplified spontaneous emission in solution-processed perovskite films by employing polymer and gold nanorods. <i>Nanoscale</i> , 2019 , 11, 1959-1967	7.7	19
205	A cascade-type electron extraction design for efficient low-bandgap perovskite solar cells based on a conventional structure with suppressed open-circuit voltage loss. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 496-504	7.8	11
204	Porous and Intercrossed Pbl-Csl Nanorod Scaffold for Inverted Planar FA-Cs Mixed-Cation Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6126-6135	9.5	20
203	Incorporation of rubidium cations into blue perovskite quantum dot light-emitting diodes via FABr-modified multi-cation hot-injection method. <i>Nanoscale</i> , 2019 , 11, 1295-1303	7.7	26
202	Reduced open-circuit voltage loss for highly efficient low-bandgap perovskite solar cells via suppression of silver diffusion. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17324-17333	13	23
201	Achieving Both Enhanced Voltage and Current through Fine-Tuning Molecular Backbone and Morphology Control in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901024	21.8	54
200	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. <i>Nano Energy</i> , 2019 , 63, 103807	17.1	42

199	Impact of surface dipole in NiOx on the crystallization and photovoltaic performance of organometal halide perovskite solar cells. <i>Nano Energy</i> , 2019 , 61, 496-504	17.1	60
198	The Role of Diammonium Cation on the Structural and Optoelectronic Properties in 3D Cesium Formamidinium Mixed-Cation Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900140	7.1	11
197	Modulation of recombination zone position for quasi-two-dimensional blue perovskite light-emitting diodes with efficiency exceeding 5. <i>Nature Communications</i> , 2019 , 10, 1027	17.4	282
196	A Tandem Organic Solar Cell with PCE of 14.52% Employing Subcells with the Same Polymer Donor and Two Absorption Complementary Acceptors. <i>Advanced Materials</i> , 2019 , 31, e1804723	24	37
195	Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1807577	24	214
194	Dual Interfacial Design for Efficient CsPbI ₂ Br Perovskite Solar Cells with Improved Photostability. <i>Advanced Materials</i> , 2019 , 31, e1901152	24	248
193	An Operando Study on the Photostability of Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900077	7.1	40
192	Revealing the crystallization process and realizing uniform 1.8 eV MA-based wide-bandgap mixed-halide perovskites via solution engineering. <i>Nano Research</i> , 2019 , 12, 1033-1039	10	26
191	The distinctive phase stability and defect physics in CsPbI ₂ Br perovskite. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20201-20207	13	34
190	CsPb(I Br) _{1-x} solar cells. <i>Science Bulletin</i> , 2019 , 64, 1532-1539	10.6	92
189	High-Throughput Optical Screening for Efficient Semitransparent Organic Solar Cells. <i>Joule</i> , 2019 , 3, 2241-2254	27.8	89
188	Highly Transparent Organic Solar Cells with All-Near-Infrared Photoactive Materials. <i>Small Methods</i> , 2019 , 3, 1900424	12.8	32
187	The Energy-Alignment Engineering in Polytriphenylamines-Based Hole Transport Polymers Realizes Low Energy Loss and High Efficiency for All-Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900265	7.1	8
186	Synergistic Effect of Pseudo-Halide Thiocyanate Anion and Cesium Cation on Realizing High-Performance Pinhole-Free MA-Based Wide-Band Gap Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25909-25916	9.5	14
185	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 17888-17894	36	10
184	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17724-17730	16.4	83
183	A distorted lactam unit with intramolecular hydrogen bonds as the electron donor of polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12290-12296	7.1	1
182	Applications of organic additives in metal halide perovskite light-emitting diodes. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 158505	0.6	5

181	Enhancing the Performance of Inverted Perovskite Solar Cells via Grain Boundary Passivation with Carbon Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3044-3052	9.5	94
180	Structurally Reconstructed CsPbI ₂ Br Perovskite for Highly Stable and Square-Centimeter All-Inorganic Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803572	21.8	149
179	Optical Analysis for Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800270	7.1	39
178	Efficient organic-inorganic hybrid cathode interfacial layer enabled by polymeric dopant and its application in large-area polymer solar cells. <i>Science China Chemistry</i> , 2019 , 62, 67-73	7.9	14
177	High-Performance Large-Area Organic Solar Cells Enabled by Sequential Bilayer Processing via Nonhalogenated Solvents. <i>Advanced Energy Materials</i> , 2019 , 9, 1802832	21.8	100
176	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. <i>Joule</i> , 2019 , 3, 1140-1151	27.8	2595
175	Fluoro- and Amino-Functionalized Conjugated Polymers as Electron Transport Materials for Perovskite Solar Cells with Improved Efficiency and Stability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5289-5297	9.5	23
174	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. <i>Advanced Materials</i> , 2019 , 31, e1804790	24	117
173	Spectral Engineering of Semitransparent Polymer Solar Cells for Greenhouse Applications. <i>Advanced Energy Materials</i> , 2019 , 9, 1803438	21.8	74
172	End-chain effects of non-fullerene acceptors on polymer solar cells. <i>Organic Electronics</i> , 2019 , 64, 1-6	3.5	11
171	Efficient and Stable Perovskite Solar Cells via Dual Functionalization of Dopamine Semiquinone Radical with Improved Trap Passivation Capabilities. <i>Advanced Functional Materials</i> , 2018 , 28, 1707444	15.6	74
170	Recent advances in semi-transparent polymer and perovskite solar cells for power generating window applications. <i>Energy and Environmental Science</i> , 2018 , 11, 1688-1709	35.4	202
169	Direct observation of cation-exchange in liquid-to-solid phase transformation in FA1-xMAxPbI ₃ based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9081-9088	13	29
168	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. <i>Chemical Science</i> , 2018 , 9, 2698-2704	9.4	87
167	Highly Efficient Tandem Organic Solar Cell Enabled by Environmentally Friendly Solvent Processed Polymeric Interconnecting Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1703180	21.8	36
166	Air-processed mixed-cation Cs _{0.15} FA _{0.85} PbI ₃ planar perovskite solar cells derived from a PbI ₂ /CsI/BAI intermediate complex. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7731-7740	13	57
165	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11. <i>Advanced Materials</i> , 2018 , 30, e1707508	24	156
164	Efficient device engineering for inverted non-fullerene organic solar cells with low energy loss. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4457-4463	7.1	30

163	High performance low-bandgap perovskite solar cells based on a high-quality mixed SnBb perovskite film prepared by vacuum-assisted thermal annealing. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16347-16354	13	31
162	11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. <i>Advanced Materials</i> , 2018 , 30, e1803166	24	78
161	Overcoming Space-Charge Effect for Efficient Thick-Film Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801609	21.8	48
160	Wide-Bandgap Perovskite Solar Cells With Large Open-Circuit Voltage of 1653 mV Through Interfacial Engineering. <i>Solar Rrl</i> , 2018 , 2, 1800083	7.1	51
159	Recombination Dynamics Study on Nanostructured Perovskite Light-Emitting Devices. <i>Advanced Materials</i> , 2018 , 30, e1801370	24	60
158	Organic and solution-processed tandem solar cells with 17.3% efficiency. <i>Science</i> , 2018 , 361, 1094-1098	33.3	1905
157	Fully Solution-Processed Tandem White Quantum-Dot Light-Emitting Diode with an External Quantum Efficiency Exceeding 25. <i>ACS Nano</i> , 2018 , 12, 6040-6049	16.7	61
156	Efficient Large Area Organic Solar Cells Processed by Blade-Coating With Single-Component Green Solvent. <i>Solar Rrl</i> , 2018 , 2, 1700169	7.1	68
155	Stable Sn/Pb-Based Perovskite Solar Cells with a Coherent 2D/3D Interface. <i>IScience</i> , 2018 , 9, 337-346	6.1	55
154	Polymer-Assisted In Situ Growth of All-Inorganic Perovskite Nanocrystal Film for Efficient and Stable Pure-Red Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42564-42572	9.5	62
153	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1803769	24	102
152	Comparison of processing windows and electronic properties between CH ₃ NH ₃ PbI ₃ perovskite fabricated by one-step and two-step solution processes. <i>Organic Electronics</i> , 2018 , 63, 159-165	3.5	20
151	The electronic properties of CH ₃ NH ₃ PbI ₃ perovskite surfaces tuned by inverted polarities of pyridine and ethylamine. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6733-6738	7.1	3
150	Interface Engineering for All-Inorganic CsPbI ₃ Br Perovskite Solar Cells with Efficiency over 14. <i>Advanced Materials</i> , 2018 , 30, e1802509	24	269
149	Heat-Insulating Multifunctional Semitransparent Polymer Solar Cells. <i>Joule</i> , 2018 , 2, 1816-1826	27.8	105
148	General design of self-doped small molecules as efficient hole extraction materials for polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3780-3785	13	13
147	Interface Engineering of a Compatible PEDOT Derivative Bilayer for High-Performance Inverted Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600948	4.6	31
146	Thermally stable high performance non-fullerene polymer solar cells with low energy loss by using ladder-type small molecule acceptors. <i>Organic Electronics</i> , 2017 , 44, 217-224	3.5	40

145	Amino-functionalized conjugated polymer electron transport layers enhance the UV-photostability of planar heterojunction perovskite solar cells. <i>Chemical Science</i> , 2017 , 8, 4587-4594	9.4	39
144	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. <i>Nature Photonics</i> , 2017 , 11, 85-90	33.9	45 ⁸
143	Poly(3,4-Ethylenedioxythiophene): Methyl-naphthalene Sulfonate Formaldehyde Condensate: The Effect of Work Function and Structural Homogeneity on Hole Injection/Extraction Properties. <i>Advanced Energy Materials</i> , 2017 , 7, 1601499	21.8	38
142	Combined optimization of emission layer morphology and hole-transport layer for enhanced performance of perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6169-6175	7.1	24
141	Effects of organic cations on the defect physics of tin halide perovskites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15124-15129	13	135
140	Ultraviolet-ozone surface modification for non-wetting hole transport materials based inverted planar perovskite solar cells with efficiency exceeding 18%. <i>Journal of Power Sources</i> , 2017 , 360, 157-165	8.9	86
139	Interface design for high-efficiency non-fullerene polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1784-1791	35.4	149
138	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602333	21.8	161
137	High-Performance Color-Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. <i>Advanced Materials</i> , 2017 , 29, 1603157	24	172
136	Naphthalene Diimide Based n-Type Conjugated Polymers as Efficient Cathode Interfacial Materials for Polymer and Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36070-36081	9.5	33
135	Synergic Interface and Optical Engineering for High-Performance Semitransparent Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1701121	21.8	43
134	Fabrication of high-performance and low-hysteresis lead halide perovskite solar cells by utilizing a versatile alcohol-soluble bispyridinium salt as an efficient cathode modifier. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17943-17953	13	23
133	n-Type Water/Alcohol-Soluble Naphthalene Diimide-Based Conjugated Polymers for High-Performance Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2004-13	16.4	400
132	White Polymer Light-Emitting Diodes Based on Exciplex Electroluminescence from Polymer Blends and a Single Polymer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6164-73	9.5	31
131	Growth and evolution of solution-processed CH ₃ NH ₃ PbI _{3-x} Cl _x layer for highly efficient planar-heterojunction perovskite solar cells. <i>Journal of Power Sources</i> , 2016 , 301, 242-250	8.9	38
130	Effects of a Molecular Monolayer Modification of NiO Nanocrystal Layer Surfaces on Perovskite Crystallization and Interface Contact toward Faster Hole Extraction and Higher Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2016 , 26, 2950-2958	15.6	239
129	Chitosan-Assisted Crystallization and Film Forming of Perovskite Crystals through Biomineralization. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 893-9	4.5	7
128	High-Performance Polymer Tandem Solar Cells Employing a New n-Type Conjugated Polymer as an Interconnecting Layer. <i>Advanced Materials</i> , 2016 , 28, 4817-23	24	137

127	Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501534	21.8	247
126	Improving Film Formation and Photovoltage of Highly Efficient Inverted-Type Perovskite Solar Cells through the Incorporation of New Polymeric Hole Selective Layers. <i>Advanced Energy Materials</i> , 2016 , 6, 1502021	21.8	141
125	Solar Cells: Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells (Adv. Energy Mater. 5/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	8
124	Wide bandgap dithienobenzodithiophene-based π -conjugated polymers consisting of fluorinated benzotriazole and benzothiadiazole for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4719-4727	7.1	31
123	Unexpected fluorescent emission of graft sulfonated-acetone formaldehyde lignin and its application as a dopant of PEDOT for high performance photovoltaic and light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5297-5306	7.1	29
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- 1 Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. *ACS Energy Letters*, 2196-2202 20.1 5