Hin-Lap Yip

List of Publications by Citations

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	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. *Joule*, **2019**, 3, 1140-1151	27.8	2595
269	Organic and solution-processed tandem solar cells with 17.3% efficiency. *Science*, **2018**, 361, 1094-1098	33.3	1905
268	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. *Energy and Environmental Science*, **2012**, 5, 5994	35.4	903
267	Interface Engineering for Organic Electronics. *Advanced Functional Materials*, **2010**, 20, 1371-1388	15.6	806
266	Air-stable inverted flexible polymer solar cells using zinc oxide nanoparticles as an electron selective layer. *Applied Physics Letters*, **2008**, 92, 253301	3.4	737
265	High-performance perovskite-polymer hybrid solar cells via electronic coupling with fullerene monolayers. *Nano Letters*, **2013**, 13, 3124-8	11.5	545
264	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. *Nature Photonics*, **2017**, 11, 85-90	33.9	458
263	Polymer Solar Cells That Use Self-Assembled-Monolayer- Modified ZnO/Metals as Cathodes. *Advanced Materials*, **2008**, 20, 2376-2382	24	446
262	Functional fullerenes for organic photovoltaics. *Journal of Materials Chemistry*, **2012**, 22, 4161		417
261	n-Type Water/Alcohol-Soluble Naphthalene Diimide-Based Conjugated Polymers for High-Performance Polymer Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 2004-13	16.4	400
260	The role of spin in the kinetic control of recombination in organic photovoltaics. *Nature*, **2013**, 500, 435-9	50.4	379
259	Efficient Polymer Solar Cells Based on the Copolymers of Benzodithiophene and Thienopyrroledione. *Chemistry of Materials*, **2010**, 22, 2696-2698	9.6	334
258	Interfacial modification to improve inverted polymer solar cells. *Journal of Materials Chemistry*, **2008**, 18, 5113		323
257	Improved charge transport and absorption coefficient in indacenodithieno[3,2-b]thiophene-based ladder-type polymer leading to highly efficient polymer solar cells. *Advanced Materials*, **2012**, 24, 6356-61	24	319
256	Blocking reactions between indium-tin oxide and poly (3,4-ethylene dioxythiophene):poly(styrene sulphonate) with a self-assembly monolayer. *Applied Physics Letters*, **2002**, 80, 2788-2790	3.4	317
255	Development of new conjugated polymers with donor-pi-bridge-acceptor side chains for high performance solar cells. *Journal of the American Chemical Society*, **2009**, 131, 13886-7	16.4	310
254	Indacenodithiophene and Quinoxaline-Based Conjugated Polymers for Highly Efficient Polymer Solar Cells. *Chemistry of Materials*, **2011**, 23, 2289-2291	9.6	303

253	High-efficiency polymer solar cells via the incorporation of an amino-functionalized conjugated metallopolymer as a cathode interlayer. *Journal of the American Chemical Society*, **2013**, 135, 15326-9	16.4	301
252	Modulation of recombination zone position for quasi-two-dimensional blue perovskite light-emitting diodes with efficiency exceeding 5. *Nature Communications*, **2019**, 10, 1027	17.4	282
251	Semi-transparent polymer solar cells with 6% PCE, 25% average visible transmittance and a color rendering index close to 100 for power generating window applications. *Energy and Environmental Science*, **2012**, 5, 9551	35.4	278
250	High performance ambient processed inverted polymer solar cells through interfacial modification with a fullerene self-assembled monolayer. *Applied Physics Letters*, **2008**, 93, 233304	3.4	271
249	Interface Engineering for All-Inorganic CsPbI Br Perovskite Solar Cells with Efficiency over 14. *Advanced Materials*, **2018**, 30, e1802509	24	269
248	A Review on the Development of the Inverted Polymer Solar Cell Architecture. *Polymer Reviews*, **2010**, 50, 474-510	14	262
247	Metal grid/conducting polymer hybrid transparent electrode for inverted polymer solar cells. *Applied Physics Letters*, **2010**, 96, 203301	3.4	254
246	Dual Interfacial Design for Efficient CsPbI Br Perovskite Solar Cells with Improved Photostability. *Advanced Materials*, **2019**, 31, e1901152	24	248
245	Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501534	21.8	247
244	Indium tin oxide-free semi-transparent inverted polymer solar cells using conducting polymer as both bottom and top electrodes. *Organic Electronics*, **2009**, 10, 1401-1407	3.5	239
243	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. *Advanced Functional Materials*, **2016**, 26, 2950-2958	15.6	239
242	Decomposition of Organometal Halide Perovskite Films on Zinc Oxide Nanoparticles. *ACS Applied Materials & Interfaces*, **2015**, 7, 19986-93	9.5	235
241	Rational Design of Advanced Thermoelectric Materials. *Advanced Energy Materials*, **2013**, 3, 549-565	21.8	225
240	Increased open circuit voltage in fluorinated benzothiadiazole-based alternating conjugated polymers. *Chemical Communications*, **2011**, 47, 11026-8	5.8	225
239	Delocalization of exciton and electron wavefunction in non-fullerene acceptor molecules enables efficient organic solar cells. *Nature Communications*, **2020**, 11, 3943	17.4	222
238	Doping of fullerenes via anion-induced electron transfer and its implication for surfactant facilitated high performance polymer solar cells. *Advanced Materials*, **2013**, 25, 4425-30	24	220
237	Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. *Advanced Materials*, **2019**, 31, e1807577	24	214
236	Recent advances in semi-transparent polymer and perovskite solar cells for power generating window applications. *Energy and Environmental Science*, **2018**, 11, 1688-1709	35.4	202

235	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. *Nature Communications*, **2020**, 11, 177	17.4	200
234	Surface doping of conjugated polymers by graphene oxide and its application for organic electronic devices. *Advanced Materials*, **2011**, 23, 1903-8	24	190
233	A Simple and Effective Way of Achieving Highly Efficient and Thermally Stable Bulk-Heterojunction Polymer Solar Cells Using Amorphous Fullerene Derivatives as Electron Acceptor. *Chemistry of Materials*, **2009**, 21, 2598-2600	9.6	185
232	Enhanced Open-Circuit Voltage in High Performance Polymer/Fullerene Bulk-Heterojunction Solar Cells by Cathode Modification with a C60 Surfactant. *Advanced Energy Materials*, **2012**, 2, 82-86	21.8	180
231	High Performance Amorphous Metallated Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells. *Chemistry of Materials*, **2008**, 20, 5734-5736	9.6	175
230	Highly efficient fullerene/perovskite planar heterojunction solar cells via cathode modification with an amino-functionalized polymer interlayer. *Journal of Materials Chemistry A*, **2014**, 2, 19598-19603	13	174
229	Significant Improved Performance of Photovoltaic Cells Made from a Partially Fluorinated Cyclopentadithiophene/Benzothiadiazole Conjugated Polymer. *Macromolecules*, **2012**, 45, 5427-5435	5.5	173
228	High-Performance Color-Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. *Advanced Materials*, **2017**, 29, 1603157	24	172
227	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. *Advanced Energy Materials*, **2017**, 7, 1602333	21.8	161
226	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. *Energy and Environmental Science*, **2013**, 6, 3241	35.4	160
225	Interfacial engineering of ultrathin metal film transparent electrode for flexible organic photovoltaic cells. *Advanced Materials*, **2014**, 26, 3618-23	24	159
224	Effect of Chemical Modification of Fullerene-Based Self-Assembled Monolayers on the Performance of Inverted Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2010**, 2, 1892-1902	9.5	157
223	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11. *Advanced Materials*, **2018**, 30, e1707508	24	156
222	Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. *Applied Physics Letters*, **2008**, 92, 193313	3.4	153
221	Interface design for high-efficiency non-fullerene polymer solar cells. *Energy and Environmental Science*, **2017**, 10, 1784-1791	35.4	149
220	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. *Journal of Materials Chemistry*, **2012**, 22, 8574		149
219	Structurally Reconstructed CsPbI2Br Perovskite for Highly Stable and Square-Centimeter All-Inorganic Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1803572	21.8	149
218	Improving Film Formation and Photovoltage of Highly Efficient Inverted-Type Perovskite Solar Cells through the Incorporation of New Polymeric Hole Selective Layers. *Advanced Energy Materials*, **2016**, 6, 1502021	21.8	141

217	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. *Chemistry of Materials*, **2013**, 25, 3188-3195	9.6	137
216	High-Performance Polymer Tandem Solar Cells Employing a New n-Type Conjugated Polymer as an Interconnecting Layer. *Advanced Materials*, **2016**, 28, 4817-23	24	137
215	Effects of organic cations on the defect physics of tin halide perovskites. *Journal of Materials Chemistry A*, **2017**, 5, 15124-15129	13	135
214	Phosphonic Acid Organic Monolayer/Sol Gel Hafnium Oxide Hybrid Dielectrics for Low-Voltage Organic Transistors. *Advanced Materials*, **2008**, 20, 3697-3701	24	129
213	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. *Chemistry of Materials*, **2014**, 26, 3009-3017	9.6	128
212	Toward High-Performance Semi-Transparent Polymer Solar Cells: Optimization of Ultra-Thin Light Absorbing Layer and Transparent Cathode Architecture. *Advanced Energy Materials*, **2013**, 3, 417-423	21.8	123
211	Dopant-Free Organic Hole-Transporting Material for Efficient and Stable Inverted All-Inorganic and Hybrid Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e1908011	24	120
210	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. *Advanced Functional Materials*, **2014**, 24, 1465-1473	15.6	120
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208	Optical design of transparent thin metal electrodes to enhance in-coupling and trapping of light in flexible polymer solar cells. *Advanced Materials*, **2012**, 24, 6362-7	24	115
207	Solution-processible highly conducting fullerenes. *Advanced Materials*, **2013**, 25, 2457-61	24	113
206	Inorganic Halide Perovskite Solar Cells: Progress and Challenges. *Advanced Energy Materials*, **2020**, 10, 2000183	21.8	111
205	High-Efficiency Polymer Solar Cells Achieved by Doping Plasmonic Metallic Nanoparticles into Dual Charge Selecting Interfacial Layers to Enhance Light Trapping. *Advanced Energy Materials*, **2013**, 3, 666-673	21.8	109
204	Synthesis, Characterization, Charge Transport, and Photovoltaic Properties of Dithienobenzoquinoxaline- and Dithienobenzopyridopyrazine-Based Conjugated Polymers. *Macromolecules*, **2011**, 44, 4752-4758	5.5	106
203	Conjugated polymers based on C, Si and N-bridged dithiophene and thienopyrroledione units: synthesis, field-effect transistors and bulk heterojunction polymer solar cells. *Journal of Materials Chemistry*, **2011**, 21, 3895		105
202	Heat-Insulating Multifunctional Semitransparent Polymer Solar Cells. *Joule*, **2018**, 2, 1816-1826	27.8	105
201	Anode modification of inverted polymer solar cells using graphene oxide. *Applied Physics Letters*, **2010**, 97, 203306	3.4	104
200	Thermally Cross-Linkable Hole-Transporting Materials on Conducting Polymer: Synthesis, Characterization, and Applications for Polymer Light-Emitting Devices. *Chemistry of Materials*, **2008**, 20, 413-422	9.6	104

199	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. *Advanced Materials*, **2018**, 30, e1803769	24	102
198	Progress of the key materials for organic solar cells. *Science China Chemistry*, **2020**, 63, 758-765	7.9	101
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196	High-Performance Polymer Solar Cells with Electrostatic Layer-by-Layer Self-Assembled Conjugated Polyelectrolytes as the Cathode Interlayer. *Advanced Materials*, **2015**, 27, 3607-13	24	99
195	A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. *Advanced Functional Materials*, **2013**, 23, 5084-5090	15.6	98
194	Benzobis(silolothiophene)-Based Low Bandgap Polymers for Efficient Polymer Solar Cells *Chemistry of Materials*, **2011**, 23, 765-767	9.6	98
193	Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. *Nature Communications*, **2019**, 10, 4100	17.4	96
192	Graded 2D/3D Perovskite Heterostructure for Efficient and Operationally Stable MA-Free Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e2000571	24	95
191	Eleven-Membered Fused-Ring Low Band-Gap Polymer with Enhanced Charge Carrier Mobility and Photovoltaic Performance. *Advanced Functional Materials*, **2014**, 24, 3631-3638	15.6	94
190	High-mobility low-bandgap conjugated copolymers based on indacenodithiophene and thiadiazolo[3,4-c]pyridine units for thin film transistor and photovoltaic applications. *Journal of Materials Chemistry*, **2011**, 21, 13247		94
189	Enhancing the Performance of Inverted Perovskite Solar Cells via Grain Boundary Passivation with Carbon Quantum Dots. *ACS Applied Materials & Interfaces*, **2019**, 11, 3044-3052	9.5	94
188	Perovskite Light-Emitting Diodes with EQE Exceeding 28% through a Synergetic Dual-Additive Strategy for Defect Passivation and Nanostructure Regulation. *Advanced Materials*, **2021**, 33, e2103268	24	94
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186	CsPb(I Br1)3 solar cells. *Science Bulletin*, **2019**, 64, 1532-1539	10.6	92
185	Synthesis, Characterization, and Photovoltaic Properties of Carbazole-Based Two-Dimensional Conjugated Polymers with Donor-Bridge-Acceptor Side Chains. *Chemistry of Materials*, **2010**, 22, 6444-6452	9.6	90
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183	Interface-enhanced organic solar cells with extrapolated T80 lifetimes of over 20 years. *Science Bulletin*, **2020**, 65, 208-216	10.6	90
182	High-Throughput Optical Screening for Efficient Semitransparent Organic Solar Cells. *Joule*, **2019**, 3, 2241-2254	27.8	89

181	Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. *Macromolecules*, **2013**, 46, 5497-5503	5.5	89
180	Graphene oxide nanosheets based organic field effect transistor for nonvolatile memory applications. *Applied Physics Letters*, **2010**, 97, 023310	3.4	89
179	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. *Chemical Science*, **2018**, 9, 2698-2704	9.4	87
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177	Ultraviolet-ozone surface modification for non-wetting hole transport materials based inverted planar perovskite solar cells with efficiency exceeding 18%. *Journal of Power Sources*, **2017**, 360, 157-165	8.9	86
176	Facile synthesis of a 56□electron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. *Chemical Communications*, **2011**, 47, 10082-4	5.8	86
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174	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 17724-17730	16.4	83
173	High-Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and See-Through Functions. *Advanced Materials*, **2020**, 32, e2001621	24	82
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171	New fullerene design enables efficient passivation of surface traps in high performance p-i-n heterojunction perovskite solar cells. *Nano Energy*, **2016**, 26, 7-15	17.1	80
170	11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. *Advanced Materials*, **2018**, 30, e1803166	24	78
169	Phosphonium Halides as Both Processing Additives and Interfacial Modifiers for High Performance Planar-Heterojunction Perovskite Solar Cells. *Small*, **2015**, 11, 3344-50	11	78
168	Efficient and Stable Perovskite Solar Cells via Dual Functionalization of Dopamine Semiquinone Radical with Improved Trap Passivation Capabilities. *Advanced Functional Materials*, **2018**, 28, 1707444	15.6	74
167	Spectral Engineering of Semitransparent Polymer Solar Cells for Greenhouse Applications. *Advanced Energy Materials*, **2019**, 9, 1803438	21.8	74
166	Low-voltage organic thin-film transistors with □phosphonic acid molecular dielectric monolayers. *Applied Physics Letters*, **2008**, 92, 113303	3.4	73
165	In-situ Crosslinking and n-Doping of Semiconducting Polymers and Their Application as Efficient Electron-Transporting Materials in Inverted Polymer Solar Cells. *Advanced Energy Materials*, **2011**, 1, 1148-1153	21.8	72
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163	Improved thin film morphology and bulk-heterojunction solar cell performance through systematic tuning of the surface energy of conjugated polymers. *Journal of Materials Chemistry*, **2012**, 22, 5587		68
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161	All-organic photopatterned one diode-one resistor cell array for advanced organic nonvolatile memory applications. *Advanced Materials*, **2012**, 24, 828-33	24	66
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159	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. *Advanced Energy Materials*, **2014**, 4, 1301645	21.8	65
158	Metallohalide perovskite polymer composite film for hybrid planar heterojunction solar cells. *RSC Advances*, **2015**, 5, 775-783	3.7	64
157	Chemically Doped and Cross-linked Hole-Transporting Materials as an Efficient Anode Buffer Layer for Polymer Solar Cells. *Chemistry of Materials*, **2011**, 23, 5006-5015	9.6	63
156	Self-assembled monolayers of aromatic thiols stabilized by parallel-displaced pi-pi stacking interactions. *Langmuir*, **2006**, 22, 3049-56	4	62
155	Polymer-Assisted In Situ Growth of All-Inorganic Perovskite Nanocrystal Film for Efficient and Stable Pure-Red Light-Emitting Devices. *ACS Applied Materials & Interfaces*, **2018**, 10, 42564-42572	9.5	62
154	Fibril Network Strategy Enables High-Performance Semitransparent Organic Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2002181	15.6	61
153	Fully Solution-Processed Tandem White Quantum-Dot Light-Emitting Diode with an External Quantum Efficiency Exceeding 25. *ACS Nano*, **2018**, 12, 6040-6049	16.7	61
152	Strong photocurrent enhancements in highly efficient flexible organic solar cells by adopting a microcavity configuration. *Advanced Materials*, **2014**, 26, 3349-54	24	61
151	Impact of surface dipole in NiOx on the crystallization and photovoltaic performance of organometal halide perovskite solar cells. *Nano Energy*, **2019**, 61, 496-504	17.1	60
150	Recombination Dynamics Study on Nanostructured Perovskite Light-Emitting Devices. *Advanced Materials*, **2018**, 30, e1801370	24	60
149	Air-processed mixed-cation Cs0.15FA0.85PbI3 planar perovskite solar cells derived from a PbI2CsIFAI intermediate complex. *Journal of Materials Chemistry A*, **2018**, 6, 7731-7740	13	57
148	n-Doping of thermally polymerizable fullerenes as an electron transporting layer for inverted polymer solar cells. *Journal of Materials Chemistry*, **2011**, 21, 6956		57
147	Morphology Evolution in High-Performance Polymer Solar Cells Processed from Nonhalogenated Solvent. *Advanced Science*, **2015**, 2, 1500095	13.6	56
146	Polymer triplet energy levels need not limit photocurrent collection in organic solar cells. *Journal of the American Chemical Society*, **2012**, 134, 19661-8	16.4	56

145	High-Performance Inverted Polymer Solar Cells: Device Characterization, Optical Modeling, and Hole-Transporting Modifications. *Advanced Functional Materials*, **2012**, 22, 2804-2811	15.6	56
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143	Stable Sn/Pb-Based Perovskite Solar Cells with a Coherent 2D/3D Interface. *IScience*, **2018**, 9, 337-346	6.1	55
142	Achieving Both Enhanced Voltage and Current through Fine-Tuning Molecular Backbone and Morphology Control in Organic Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1901024	21.8	54
141	Patterning of robust self-assembled n-type hexaazatrinaphthylene-based nanorods and nanowires by microcontact printing. *Journal of the American Chemical Society*, **2006**, 128, 13042-3	16.4	53
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137	Synthesis, Nanostructure, Functionality, and Application of Polyfluorene-block-poly(N-isopropylacrylamide)s. *Macromolecules*, **2010**, 43, 282-291	5.5	50
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135	Boosting Infrared Light Harvesting by Molecular Functionalization of Metal Oxide/Polymer Interfaces in Efficient Hybrid Solar Cells. *Advanced Functional Materials*, **2012**, 22, 2160-2166	15.6	46
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133	Highly efficient red electrophosphorescent devices based on an iridium complex with trifluoromethyl-substituted pyrimidine ligand. *Applied Physics Letters*, **2004**, 85, 1619-1621	3.4	44
132	Synergic Interface and Optical Engineering for High-Performance Semitransparent Polymer Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1701121	21.8	43
131	Semitransparent Organic Solar Cells with Vivid Colors. *ACS Energy Letters*, **2020**, 5, 3115-3123	20.1	43
130	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. *Nano Energy*, **2019**, 63, 103807	17.1	42
129	Composition Engineering of All-Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2001764	15.6	42
128	Evaluation of structure–property relationships of solution-processible fullerene acceptors and their n-channel field-effect transistor performance. *Journal of Materials Chemistry*, **2012**, 22, 14976		42

127	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. *Polymer Chemistry*, **2013**, 4, 5220	4.9	42
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125	High-Performance Ternary Organic Solar Cells with Controllable Morphology via Sequential Layer-by-Layer Deposition. *ACS Applied Materials & Interfaces*, **2020**, 12, 13077-13086	9.5	41
124	Solution processed inverted tandem polymer solar cells with self-assembled monolayer modified interfacial layers. *Applied Physics Letters*, **2010**, 97, 253307	3.4	41
123	Thermally stable high performance non-fullerene polymer solar cells with low energy loss by using ladder-type small molecule acceptors. *Organic Electronics*, **2017**, 44, 217-224	3.5	40
122	An Operando Study on the Photostability of Nonfullerene Organic Solar Cells. *Solar Rrl*, **2019**, 3, 1900077	7.1	40
121	Amino-functionalized conjugated polymer electron transport layers enhance the UV-photostability of planar heterojunction perovskite solar cells. *Chemical Science*, **2017**, 8, 4587-4594	9.4	39
120	Surpassing 13% Efficiency for Polythiophene Organic Solar Cells Processed from Nonhalogenated Solvent. *Advanced Materials*, **2021**, 33, e2008158	24	39
119	Optical Analysis for Semitransparent Organic Solar Cells. *Solar Rrl*, **2019**, 3, 1800270	7.1	39
118	Poly(3,4-Ethylenedioxythiophene): Methylnaphthalene Sulfonate Formaldehyde Condensate: The Effect of Work Function and Structural Homogeneity on Hole Injection/Extraction Properties. *Advanced Energy Materials*, **2017**, 7, 1601499	21.8	38
117	Long-lived and disorder-free charge transfer states enable endothermic charge separation in efficient non-fullerene organic solar cells. *Nature Communications*, **2020**, 11, 5617	17.4	38
116	Growth and evolution of solution-processed CH3NH3PbI3-xClx layer for highly efficient planar-heterojunction perovskite solar cells. *Journal of Power Sources*, **2016**, 301, 242-250	8.9	38
115	Sensitivity of titania(B) nanowires to nitroaromatic and nitroamino explosives at room temperature via surface hydroxyl groups. *Journal of Materials Chemistry*, **2011**, 21, 7269		38
114	Highly efficient indacenodithiophene-based polymeric solar cells in conventional and inverted device configurations. *Organic Electronics*, **2011**, 12, 794-801	3.5	38
113	A Tandem Organic Solar Cell with PCE of 14.52% Employing Subcells with the Same Polymer Donor and Two Absorption Complementary Acceptors. *Advanced Materials*, **2019**, 31, e1804723	24	37
112	Surface characterization of polythiophene:fullerene blends on different electrodes using near edge X-ray absorption fine structure. *ACS Applied Materials & Interfaces*, **2011**, 3, 726-32	9.5	37
111	Utilization of Trapped Optical Modes for White Perovskite Light-Emitting Diodes with Efficiency over 12%. *Joule*, **2021**, 5, 456-466	27.8	37
110	Highly Efficient Tandem Organic Solar Cell Enabled by Environmentally Friendly Solvent Processed Polymeric Interconnecting Layer. *Advanced Energy Materials*, **2018**, 8, 1703180	21.8	36

109	3,4-Dicyanothiophene□ Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1904247	21.8	35
108	The distinctive phase stability and defect physics in CsPbI2Br perovskite. *Journal of Materials Chemistry A*, **2019**, 7, 20201-20207	13	34
107	The effect of thieno[3,2-b]thiophene on the absorption, charge mobility and photovoltaic performance of diketopyrrolopyrrole-based low bandgap conjugated polymers. *Journal of Materials Chemistry C*, **2013**, 1, 7526	7.1	34
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