

Shuping Zhang

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.

281
papers

11,943
citations

64
h-index

100
g-index

289
ext. papers

14,112
ext. citations

8.4
avg, IF

7.06
L-index

#	Paper	IF	Citations
281	Highly sensitive photomultiplication type polymer photodetectors by manipulating interfacial trapped electron density. <i>Chemical Engineering Journal</i> , 2022 , 435, 134973	14.7	15
280	Metallated terpolymer donors with strongly absorbing iridium complex enables polymer solar cells with 16.71% efficiency. <i>Chemical Engineering Journal</i> , 2022 , 430, 132832	14.7	5
279	Employing liquid crystal material as regulator to enhance performance of photomultiplication type polymer photodetectors. <i>Chemical Engineering Journal</i> , 2022 , 427, 131802	14.7	33
278	Over 17.7% efficiency ternary-blend organic solar cells with low energy-loss and good thickness-tolerance. <i>Chemical Engineering Journal</i> , 2022 , 428, 129276	14.7	66
277	Achieving 17.5% efficiency for polymer solar cells via a donor and acceptor layered optimization strategy. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5489-5496	7.1	8
276	Highly efficient orange and white OLEDs based on ultrathin phosphorescent emitters with double reverse intersystem crossing system. <i>Journal of Luminescence</i> , 2022 , 246, 118852	3.8	0
275	Boosted efficiency over 18.1% of polymer solar cells by employing large extinction coefficients material as the third component.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200345	4.8	11
274	Layered optimization strategy enables over 17.8% efficiency of layer-by-layer organic photovoltaics. <i>Chemical Engineering Journal</i> , 2022 , 442, 136368	14.7	14
273	Highly efficient inverted organic solar cells with natural biomaterial histidine as electron transport layer. <i>Organic Electronics</i> , 2022 , 106, 106538	3.5	1
272	High efficiency, ultra-low roll-offs in orange phosphorescent organic light-emitting devices using a novel exciplex system. <i>Organic Electronics</i> , 2022 , 106, 106536	3.5	
271	Over 17% Efficiency of Ternary Organic Photovoltaics Employing Two Acceptors with an Acceptor-Donor-Acceptor Configuration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57684-57692	9.5	19
270	Smart Ternary Strategy in Promoting the Performance of Polymer Solar Cells Based on Bulk-Heterojunction or Layer-By-Layer Structure. <i>Small</i> , 2021 , e2104215	11	35
269	Approaching 18% efficiency of ternary organic photovoltaics with wide bandgap polymer donor and well compatible Y6 : Y6-1O as acceptor. <i>National Science Review</i> , 2021 , 8, nwaa305	10.8	119
268	Ultra-Narrow-Band NIR Photomultiplication Organic Photodetectors Based on Charge Injection Narrowing. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2937-2943	6.4	48
267	Smart Strategy: Transparent Hole-Transporting Polymer as a Regulator to Optimize Photomultiplication-type Polymer Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21565-21572	9.5	39
266	Over 17.6% Efficiency Organic Photovoltaic Devices with Two Compatible Polymer Donors. <i>Solar Rrl</i> , 2021 , 5, 2100175	7.1	17
265	A Chlorinated Donor Polymer Achieving High-Performance Organic Solar Cells with a Wide Range of Polymer Molecular Weight. <i>Advanced Functional Materials</i> , 2021 , 31, 2102413	15.6	17

264	Over 16% Efficiency of Thick-Film Organic Photovoltaics with Symmetric and Asymmetric Non-Fullerene Materials as Alloyed Acceptor. <i>Solar Rrl</i> , 2021 , 5, 2100365	7.1	6
263	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , 2021 , 31, 2104369	15.6	15
262	Recent Progress of Organic Photovoltaics with Efficiency over 17%. <i>Energies</i> , 2021 , 14, 4200	3.1	30
261	Highly sensitive, sub-microsecond polymer photodetectors for blood oxygen saturation testing. <i>Science China Chemistry</i> , 2021 , 64, 1302-1309	7.9	32
260	Two-Pronged Effect of Warm Solution and Solvent-Vapor Annealing for Efficient and Stable All-Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 2898-2906	20.1	17
259	Benzo[c][1,2,5]thiadiazole-fused pentacyclic small molecule acceptors for organic solar cells. <i>Dyes and Pigments</i> , 2021 , 185, 108970	4.6	1
258	14.46% Efficiency small molecule organic photovoltaics enabled by the well trade-off between phase separation and photon harvesting. <i>Journal of Energy Chemistry</i> , 2021 , 57, 610-617	12	62
257	Broadband photomultiplication organic photodetectors. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2923-2929	3.6	2
256	Organic photovoltaics with 300 nm thick ternary active layers exhibiting 15.6% efficiency. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9892-9898	7.1	32
255	Rational compatibility in a ternary matrix enables all-small-molecule organic solar cells with over 16% efficiency. <i>Energy and Environmental Science</i> , 2021 , 14, 3945-3953	35.4	65
254	Highly sensitive all-polymer photodetectors with ultraviolet-visible to near-infrared photo-detection and their application as an optical switch. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5349-5355 ²⁹	7.1	29
253	Semitransparent organic solar cells exhibiting 13.02% efficiency and 20.2% average visible transmittance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6797-6804	13	61
252	Ternary Organic Photovoltaic Cells Exhibiting 17.59% Efficiency with Two Compatible Y6 Derivations as Acceptor. <i>Solar Rrl</i> , 2021 , 5, 2100007	7.1	62
251	Highly Sensitive Narrowband Photomultiplication-Type Organic Photodetectors Prepared by Transfer-Printed Technology. <i>Advanced Functional Materials</i> , 2021 , 31, 2106009	15.6	48
250	High-Performance Ladder-Type Heteroheptacene-Based Nonfullerene Acceptors Enabled by Asymmetric Cores with Enhanced Noncovalent Intramolecular Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19314-19323	16.4	15
249	Narrowband Photomultiplication Organic Photodetectors by Employing Phosphorescent Material as Optical Field Adjusting Layer. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18536-18542	3.8	2
248	Visualization of Interfacial Band Bending in Photomultiplying Organic Photodetectors. <i>Nano Letters</i> , 2021 , 21, 8474-8480	11.5	5
247	High-performance flexible surface-enhanced Raman scattering substrate based on the particle-in-multiscale 3D structure. <i>Nanophotonics</i> , 2021 ,	6.3	1

246	Abbreviated protocol combining quantitative diffusion-weighted imaging: a new strategy increasing diagnostic accuracy for breast magnetic resonance imaging?. <i>Gland Surgery</i> , 2021 , 10, 2705-2714	2.2	2
245	Naphthalene-fused octacyclic electron-donating central core constructs non-fullerene acceptors for organic solar cells. <i>Chemical Engineering Journal</i> , 2021 , 425, 130618	14.7	1
244	Highly efficient, ultralow turn-on voltage red and white organic light-emitting devices based on a novel exciplex host. <i>Materials Advances</i> , 2021 , 2, 3677-3684	3.3	3
243	Natural biomaterial sarcosine as an interfacial layer enables inverted organic solar cells to exhibit over 16.4% efficiency. <i>Nanoscale</i> , 2021 , 13, 11128-11137	7.7	8
242	Broadband organic photodetectors exhibiting photomultiplication with a narrow bandgap non-fullerene acceptor as an electron trap. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9854-9860	7.1	2
241	Upregulated PKM2 in Macrophages Exacerbates Experimental Arthritis via STAT1 Signaling. <i>Journal of Immunology</i> , 2020 , 205, 181-192	5.3	13
240	Charge density modulation on asymmetric fused-ring acceptors for high-efficiency photovoltaic solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1747-1755	7.8	11
239	Over 15.7% Efficiency of Ternary Organic Solar Cells by Employing Two Compatible Acceptors with Similar LUMO Levels. <i>Small</i> , 2020 , 16, e2000441	11	45
238	Achieving 17.4% Efficiency of Ternary Organic Photovoltaics with Two Well-Compatible Nonfullerene Acceptors for Minimizing Energy Loss. <i>Advanced Energy Materials</i> , 2020 , 10, 2001404	21.8	115
237	An asymmetrical fused-ring electron acceptor designed by a cross-conceptual strategy achieving 15.6% efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14583-14591	13	19
236	Novel Nitrogen-Containing Heterocyclic Non-Fullerene Acceptors for Organic Photovoltaic Cells: Different End-Capping Groups Leading to a Big Difference of Power Conversion Efficiencies. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13068-13076	9.5	15
235	Molecular engineering of acceptors to control aggregation for optimized nonfullerene solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5458-5466	13	34
234	Highly efficient quaternary organic photovoltaics by optimizing photogenerated exciton distribution and active layer morphology. <i>Nano Energy</i> , 2020 , 70, 104496	17.1	70
233	Alloy-like ternary polymer solar cells with over 17.2% efficiency. <i>Science Bulletin</i> , 2020 , 65, 538-545	10.6	180
232	Over 14.5% efficiency and 71.6% fill factor of ternary organic solar cells with 300 nm thick active layers. <i>Energy and Environmental Science</i> , 2020 , 13, 958-967	35.4	148
231	Thick-Film Organic Solar Cells Achieving over 11% Efficiency and Nearly 70% Fill Factor at Thickness over 400 nm. <i>Advanced Functional Materials</i> , 2020 , 30, 1908336	15.6	70
230	Ultraviolet to near-infrared broadband organic photodetectors with photomultiplication. <i>Organic Electronics</i> , 2020 , 83, 105739	3.5	19
229	J71-based ternary organic photovoltaics exhibiting 13.65% efficiency. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3979-3984	5.8	7

228 Ternary organic solar cells **2020**, 59-106

227 Over 16.7% efficiency of ternary organic photovoltaics by employing extra PC71BM as morphology regulator. *Science China Chemistry*, **2020**, 63, 83-91 7.9 136

226 Photomultiplication Type Broad Response Organic Photodetectors with One Absorber Layer and One Multiplication Layer. *Journal of Physical Chemistry Letters*, **2020**, 11, 366-373 6.4 86

225 Photomultiplication type organic photodetectors based on electron tunneling injection. *Nanoscale*, **2020**, 12, 1091-1099 7.7 74

224 Efficient ternary organic photovoltaics with two polymer donors by minimizing energy loss. *Journal of Materials Chemistry A*, **2020**, 8, 1265-1272 13 71

223 Highly Efficient, Simplified Monochrome and White Organic Light-Emitting Devices based on Novel Exciplex Host. *Advanced Optical Materials*, **2020**, 8, 1901247 8.1 15

222 Two compatible polymer donors contribute synergistically for ternary organic solar cells with 17.53% efficiency. *Energy and Environmental Science*, **2020**, 13, 5039-5047 35.4 118

221 Recent Progress on Broadband Organic Photodetectors and their Applications. *Laser and Photonics Reviews*, **2020**, 14, 2000262 8.3 87

220 A critical review on semitransparent organic solar cells. *Nano Energy*, **2020**, 78, 105376 17.1 133

219 Review on smart strategies for achieving highly efficient ternary polymer solar cells. *APL Materials*, **2020**, 8, 090703 5.7 10

218 Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. *Energy and Environmental Science*, **2020**, 13, 5017-5027 35.4 117

217 Low-gap zinc porphyrin as an efficient dopant for photomultiplication type photodetectors. *Chemical Communications*, **2020**, 56, 12769-12772 5.8 7

216 A Critical Review on Efficient Thick-Film Organic Solar Cells. *Solar Rrl*, **2020**, 4, 2000364 7.1 57

215 Semitransparent polymer solar cells with 12.37% efficiency and 18.6% average visible transmittance. *Science Bulletin*, **2020**, 65, 131-137 10.6 104

214 Photomultiplication type all-polymer photodetectors with single carrier transport property. *Science China Chemistry*, **2019**, 62, 1619-1624 7.9 5

213 Ternary small molecules organic photovoltaics exhibiting 12.84% efficiency. *Nano Energy*, **2019**, 66, 10411791 17.1 43

212 Ternary polymer solar cells achieving 11.78% efficiency with two fluorinated non-fullerene acceptors. *Organic Electronics*, **2019**, 67, 253-258 3.5 11

211 Recent progress on highly sensitive perovskite photodetectors. *Journal of Materials Chemistry C*, **2019**, 7, 1741-1791 7.1 237

210	Ternary organic photovoltaics with alloyed donor exhibiting 75.53% fill factor and 12.26% efficiency. <i>Organic Electronics</i> , 2019 , 71, 272-278	3.5	3
209	Fused-Ring Core Engineering for Small Molecule Acceptors Enable High-Performance Nonfullerene Polymer Solar Cells. <i>Small Methods</i> , 2019 , 3, 1900280	12.8	12
208	Inverted Ternary Organic Photovoltaics with Alloyed Acceptor Exhibiting 12.29% Efficiency. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900217	2.5	2
207	Fluorene-fused ladder-type non-fullerene small molecule acceptors for high-performance polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 709-715	7.8	8
206	Solvent additive-free ternary polymer solar cells with 16.27% efficiency. <i>Science Bulletin</i> , 2019 , 64, 504-506.6	222	
205	Ternary polymer solar cells with alloyed donor achieving 14.13% efficiency and 78.4% fill factor. <i>Nano Energy</i> , 2019 , 60, 768-774	17.1	101
204	Photomultiplication type organic photodetectors with tunable spectral response range. <i>Organic Electronics</i> , 2019 , 69, 354-360	3.5	17
203	Acceptor-free photomultiplication-type organic photodetectors. <i>Nanoscale</i> , 2019 , 11, 16406-16413	7.7	19
202	Two Well-Compatible Acceptors with Efficient Energy Transfer Enable Ternary Organic Photovoltaics Exhibiting a 13.36% Efficiency. <i>Small</i> , 2019 , 15, e1902602	11	11
201	13.26% Efficiency Polymer Solar Cells by Optimizing Photogenerated Exciton Distribution and Phase Separation with the Third Component. <i>Solar Rrl</i> , 2019 , 3, 1900269	7.1	11
200	All-polymer photodetectors with photomultiplication. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9633-9640	7	
199	Ternary organic solar cells with J71 as donor and alloyed acceptors exhibiting 13.16% efficiency. <i>Nano Energy</i> , 2019 , 63, 103888	17.1	23
198	A novel 9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile end group for an efficient non-fullerene small molecule acceptor. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10111-10118	7.1	5
197	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7843-7851	13	110
196	Semitransparent polymer solar cells with 9.06% efficiency and 27.1% average visible transmittance obtained by employing a smart strategy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7025-7032	13	74
195	Ternary polymer solar cells with alloyed non-fullerene acceptor exhibiting 12.99% efficiency and 76.03% fill factor. <i>Nano Energy</i> , 2019 , 59, 58-65	17.1	50
194	One key issue in characterization of organic solar cells with solution processed interfacial layers. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5790-5795	3.6	2
193	Semitransparent ternary nonfullerene polymer solar cells exhibiting 9.40% efficiency and 24.6% average visible transmittance. <i>Nano Energy</i> , 2019 , 55, 424-432	17.1	134

192	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. <i>Advanced Materials</i> , 2019 , 31, e1804790	24	117
191	Photomultiplication Type Organic Photodetectors with Broadband and Narrowband Response Ability. <i>Advanced Optical Materials</i> , 2018 , 6, 1800001	8.1	70
190	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. <i>Energy and Environmental Science</i> , 2018 , 11, 841-849	35.4	190
189	Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705095	15.6	88
188	Energy level modulation of non-fullerene acceptors enables efficient organic solar cells with small energy loss. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2468-2475	13	133
187	Efficient Ternary Polymer Solar Cells with Two Well-Compatible Donors and One Ultranarrow Bandgap Nonfullerene Acceptor. <i>Advanced Energy Materials</i> , 2018 , 8, 1702854	21.8	177
186	Ternary Nonfullerene Polymer Solar Cells with a Power Conversion Efficiency of 11.6% by Inheriting the Advantages of Binary Cells. <i>ACS Energy Letters</i> , 2018 , 3, 555-561	20.1	139
185	High-efficiency and air stable fullerene-free ternary organic solar cells. <i>Nano Energy</i> , 2018 , 45, 177-183	17.1	169
184	High performance non-fullerene polymer solar cells based on PTB7-Th as the electron donor with 10.42% efficiency. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2549-2554	13	57
183	DRm217 attenuates myocardial ischemia-reperfusion injury via stabilizing plasma membrane Na-K-ATPase, inhibiting Na-K-ATPase/ROS pathway and activating PI3K/Akt and ERK1/2. <i>Toxicology and Applied Pharmacology</i> , 2018 , 349, 62-71	4.6	6
182	Dithieno[3,2-b:2',3'-Ld]pyrrol Fused Nonfullerene Acceptors Enabling Over 13% Efficiency for Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707150	24	340
181	Improved photomultiplication in inverted-structure organic photodetectors via interfacial engineering. <i>Applied Physics Letters</i> , 2018 , 113, 043303	3.4	15
180	Efficient ternary organic solar cells with high absorption coefficient DIB-SQ as the third component. <i>Chinese Physics B</i> , 2018 , 27, 058802	1.2	5
179	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. <i>Chemical Science</i> , 2018 , 9, 8142-8149	9.4	56
178	Organic Photodetectors with Gain and Broadband/Narrowband Response under Top/Bottom Illumination Conditions. <i>Advanced Optical Materials</i> , 2018 , 6, 1800249	8.1	73
177	Simultaneously improved efficiency and average visible transmittance of semitransparent polymer solar cells with two ultra-narrow bandgap nonfullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21485-21492	13	69
176	Recent Progress on Photomultiplication Type Organic Photodetectors. <i>Laser and Photonics Reviews</i> , 2018 , 13, 1800204	8.3	81
175	Efficient Polymer Solar Cells with Open-Circuit Voltage of 1.01 V and Power Conversion Efficiency of 8.09. <i>ACS Omega</i> , 2018 , 3, 11562-11568	3.9	4

174	Efficient Ternary Organic Solar Cells with Two Compatible Non-Fullerene Materials as One Alloyed Acceptor. <i>Small</i> , 2018 , 14, e1802983	11	48
173	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. <i>Advanced Energy Materials</i> , 2018 , 8, 1801968	21.8	157
172	Ternary non-fullerene polymer solar cells with an efficiency of 11.6% by simultaneously optimizing photon harvesting and phase separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11751-11758	13	29
171	Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. <i>Energy and Environmental Science</i> , 2018 , 11, 2134-2141	35.4	193
170	Asymmetrical Ladder-Type Donor-Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1800052	24	199
169	Revisiting the Impact of Interfacial Transport Layers on Organic Bulk Heterojunction Systems. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3457-3468	6.1	7
168	Nematic liquid crystal materials as a morphology regulator for ternary small molecule solar cells with power conversion efficiency exceeding 10%. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3589-3598	13	157
167	Highly sensitive polymer photodetectors with a wide spectral response range. <i>Chinese Physics B</i> , 2017 , 26, 018201	1.2	10
166	Simultaneously Enhanced Efficiency and Stability of Polymer Solar Cells by Employing Solvent Additive and Upside-down Drying Method. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8863-8871	9.5	29
165	Highly Narrowband Photomultiplication Type Organic Photodetectors. <i>Nano Letters</i> , 2017 , 17, 1995-2002	21.5	223
164	Highly Efficient Parallel-Like Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 2914-2920	9.6	140
163	Photomultiplication type narrowband organic photodetectors working at forward and reverse bias. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14424-14430	3.6	34
162	A liquid crystal material as the third component for ternary polymer solar cells with an efficiency of 10.83% and enhanced stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13145-13153	13	62
161	Dramatically Boosted Efficiency of Small Molecule Solar Cells by Synergistically Optimizing Molecular Aggregation and Crystallinity. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1982-1989	8.3	7
160	Pristane induces autophagy in macrophages, promoting a STAT1-IRF1-TLR3 pathway and arthritis. <i>Clinical Immunology</i> , 2017 , 175, 56-68	9	10
159	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23319-23327	13	32
158	Highly Sensitive Low-Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near-Infrared Region. <i>Advanced Functional Materials</i> , 2017 , 27, 1703953	15.6	113
157	Self-Filtered Narrowband Perovskite Photodetectors with Ultrafast and Tuned Spectral Response. <i>Advanced Optical Materials</i> , 2017 , 5, 1700672	8.1	54

156	Side Group Engineering of Small Molecular Acceptors for High-Performance Fullerene-Free Polymer Solar Cells: Thiophene Being Superior to Selenophene. <i>Advanced Functional Materials</i> , 2017 , 27, 1702194	15.6	81
155	Ternary small molecule solar cells exhibiting power conversion efficiency of 10.3%. <i>Nano Energy</i> , 2017 , 39, 571-581	17.1	75
154	One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. <i>Nano Energy</i> , 2017 , 40, 163-169	17.1	75
153	Isomeric small molecule acceptors based on perylene diimide and spirobifluorene for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2017 , 146, 151-158	4.6	14
152	Acceptor manipulation of bisalkylthiothienyl benzo[1,2-b:4,5-b']dithiophene core-structured oligomers for efficient organic photovoltaics. <i>Dyes and Pigments</i> , 2017 , 140, 512-519	4.6	6
151	Effect of bisalkylthio side chains on benzo[1,2-b:4,5-b']dithiophene-based polymers for organic solar cells. <i>Dyes and Pigments</i> , 2017 , 138, 47-55	4.6	3
150	Efficient ternary organic photovoltaic cells with better trade-off photon harvesting and phase separation by doping DIB-SQ. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7809-7816	7.1	12
149	Side-chain Engineering of Benzo[1,2-b:4,5-b']dithiophene Core-structured Small Molecules for High-Performance Organic Solar Cells. <i>Scientific Reports</i> , 2016 , 6, 25355	4.9	17
148	High-performance alloy model-based ternary small molecule solar cells. <i>Nano Energy</i> , 2016 , 30, 276-282	17.1	57
147	Selenium-substituted polymers for improved photovoltaic performance. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7978-86	3.6	14
146	Highly efficient ternary polymer solar cells by optimizing photon harvesting and charge carrier transport. <i>Nano Energy</i> , 2016 , 22, 241-254	17.1	180
145	Photomultiplication photodetectors with P3HT:fullerene-free material as the active layers exhibiting a broad response. <i>Nanoscale</i> , 2016 , 8, 5578-86	7.7	68
144	Adjusting acceptor redistribution for highly efficient solvent additive-free polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3202-3208	7.1	7
143	Side-chain manipulation on accepting units of two-dimensional benzo[1,2-b:4,5-b']dithiophene polymers for organic photovoltaics. <i>Polymer Chemistry</i> , 2016 , 7, 1486-1493	4.9	15
142	Versatile ternary organic solar cells: a critical review. <i>Energy and Environmental Science</i> , 2016 , 9, 281-322	35.4	508
141	Highly efficient polymer solar cells by step-by-step optimizing donor molecular packing and acceptor redistribution. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 709-716	3.6	8
140	Alloy Acceptor: Superior Alternative to PCBM toward Efficient and Stable Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8021-8028	24	189
139	Efficient organic ternary solar cells with the third component as energy acceptor. <i>Nano Energy</i> , 2016 , 26, 180-191	17.1	81

138	Dialkylthio benzo[1,2-b:4,5-b']difuran polymer for efficient organic photovoltaics with solvent treatment in active layers. <i>Dyes and Pigments</i> , 2016 , 131, 356-363	4.6	5
137	Highly Sensitive Organic Photodetectors with Tunable Spectral Response under Bi-Directional Bias. <i>Advanced Optical Materials</i> , 2016 , 4, 1711-1717	8.1	60
136	Design and photovoltaic characterization of dialkylthio benzo[1,2-b:4,5-b']dithiophene polymers with different accepting units. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7848-56	3.6	15
135	Dynamic interface charge governing the current-voltage hysteresis in perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9613-8	3.6	81
134	Highly sensitive polymer photodetectors with a broad spectral response range from UV light to the near infrared region. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7386-7393	7.1	56
133	A two-step strategy to clarify the roles of a solution processed PFN interfacial layer in highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18432-18441	13	68
132	Efficient small molecular ternary solar cells by synergistically optimized photon harvesting and phase separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16653-16662	13	70
131	Trap-assisted photomultiplication polymer photodetectors obtaining an external quantum efficiency of 37,500%. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5890-7	9.5	98
130	Doping a D-A structural polymer based on benzodithiophene and triazoloquinoxaline for efficiency improvement of ternary solar cells. <i>Electronic Materials Letters</i> , 2015 , 11, 236-240	2.9	6
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