Shuping Zhang

List of Publications by Citations

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	Versatile ternary organic solar cells: a critical review. *Energy and Environmental Science*, **2016**, 9, 281-322	35.4	508
280	Dithieno[3,2-b:2′,3′-d]pyrrol Fused Nonfullerene Acceptors Enabling Over 13% Efficiency for Organic Solar Cells. *Advanced Materials*, **2018**, 30, e1707150	24	340
279	Recent progress on highly sensitive perovskite photodetectors. *Journal of Materials Chemistry C*, **2019**, 7, 1741-1791	7.1	237
278	Recent progress in the design of narrow bandgap conjugated polymers for high-efficiency organic solar cells. *Progress in Polymer Science*, **2012**, 37, 1292-1331	29.6	231
277	Highly Narrowband Photomultiplication Type Organic Photodetectors. *Nano Letters*, **2017**, 17, 1995-2002	11.5	223
276	Solvent additive-free ternary polymer solar cells with 16.27% efficiency. *Science Bulletin*, **2019**, 64, 504-506	10.6	222
275	Asymmetrical Ladder-Type Donor-Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for High-Performance Nonfullerene Polymer Solar Cells. *Advanced Materials*, **2018**, 30, e1800052	24	199
274	Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. *Energy and Environmental Science*, **2018**, 11, 2134-2141	35.4	193
273	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. *Energy and Environmental Science*, **2018**, 11, 841-849	35.4	190
272	Recent development of the inverted configuration organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1785-1799	6.4	190
271	Alloy Acceptor: Superior Alternative to PCBM toward Efficient and Stable Organic Solar Cells. *Advanced Materials*, **2016**, 28, 8021-8028	24	189
270	Anomalously large interface charge in polarity-switchable photovoltaic devices: an indication of mobile ions in organic–inorganic halide perovskites. *Energy and Environmental Science*, **2015**, 8, 1256-1260	35.4	186
269	Alloy-like ternary polymer solar cells with over 17.2% efficiency. *Science Bulletin*, **2020**, 65, 538-545	10.6	180
268	Highly efficient ternary polymer solar cells by optimizing photon harvesting and charge carrier transport. *Nano Energy*, **2016**, 22, 241-254	17.1	180
267	Efficient Ternary Polymer Solar Cells with Two Well-Compatible Donors and One Ultranarrow Bandgap Nonfullerene Acceptor. *Advanced Energy Materials*, **2018**, 8, 1702854	21.8	177
266	High-efficiency and air stable fullerene-free ternary organic solar cells. *Nano Energy*, **2018**, 45, 177-183	17.1	169
265	Nematic liquid crystal materials as a morphology regulator for ternary small molecule solar cells with power conversion efficiency exceeding 10%. *Journal of Materials Chemistry A*, **2017**, 5, 3589-3598	13	157

264	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. *Advanced Energy Materials*, **2018**, 8, 1801968	21.8	157
263	Over 14.5% efficiency and 71.6% fill factor of ternary organic solar cells with 300 nm thick active layers. *Energy and Environmental Science*, **2020**, 13, 958-967	35.4	148
262	Highly Efficient Parallel-Like Ternary Organic Solar Cells. *Chemistry of Materials*, **2017**, 29, 2914-2920	9.6	140
261	Ternary Nonfullerene Polymer Solar Cells with a Power Conversion Efficiency of 11.6% by Inheriting the Advantages of Binary Cells. *ACS Energy Letters*, **2018**, 3, 555-561	20.1	139
260	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
259	Achieving EQE of 16,700% in P3HT:PC71BM based photodetectors by trap-assisted photomultiplication. *Scientific Reports*, **2015**, 5, 9181	4.9	134
258	Semitransparent ternary nonfullerene polymer solar cells exhibiting 9.40% efficiency and 24.6% average visible transmittance. *Nano Energy*, **2019**, 55, 424-432	17.1	134
257	Energy level modulation of non-fullerene acceptors enables efficient organic solar cells with small energy loss. *Journal of Materials Chemistry A*, **2018**, 6, 2468-2475	13	133
256	A critical review on semitransparent organic solar cells. *Nano Energy*, **2020**, 78, 105376	17.1	133
255	Approaching 18% efficiency of ternary organic photovoltaics with wide bandgap polymer donor and well compatible Y6 : Y6-1O as acceptor. *National Science Review*, **2021**, 8, nwaa305	10.8	119
254	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
253	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
252	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. *Advanced Materials*, **2019**, 31, e1804790	24	117
251	Achieving 17.4% Efficiency of Ternary Organic Photovoltaics with Two Well-Compatible Nonfullerene Acceptors for Minimizing Energy Loss. *Advanced Energy Materials*, **2020**, 10, 2001404	21.8	115
250	Highly Sensitive Low-Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near-Infrared Region. *Advanced Functional Materials*, **2017**, 27, 1703953	15.6	113
249	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. *Journal of Materials Chemistry A*, **2019**, 7, 7843-7851	13	110
248	Simultaneous improvement in short circuit current, open circuit voltage, and fill factor of polymer solar cells through ternary strategy. *ACS Applied Materials & Interfaces*, **2015**, 7, 3691-8	9.5	104
247	Energy level alignment and morphology of interfaces between molecular and polymeric organic semiconductors. *Organic Electronics*, **2007**, 8, 606-614	3.5	104

246	Semitransparent polymer solar cells with 12.37% efficiency and 18.6% average visible transmittance. *Science Bulletin*, **2020**, 65, 131-137	10.6	104
245	Ternary polymer solar cells with alloyed donor achieving 14.13% efficiency and 78.4% fill factor. *Nano Energy*, **2019**, 60, 768-774	17.1	101
244	Trap-assisted photomultiplication polymer photodetectors obtaining an external quantum efficiency of 37,500%. *ACS Applied Materials & Interfaces*, **2015**, 7, 5890-7	9.5	98
243	Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1705095	15.6	88
242	Recent Progress on Broadband Organic Photodetectors and their Applications. *Laser and Photonics Reviews*, **2020**, 14, 2000262	8.3	87
241	Improved efficiency of bulk heterojunction polymer solar cells by doping low-bandgap small molecules. *ACS Applied Materials & Interfaces*, **2014**, 6, 6537-44	9.5	86
240	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
239	Influence of PC60BM or PC70BM as electron acceptor on the performance of polymer solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 97, 71-77	6.4	83
238	Dynamic interface charge governing the current-voltage hysteresis in perovskite solar cells. *Physical Chemistry Chemical Physics*, **2015**, 17, 9613-8	3.6	81
237	Side Group Engineering of Small Molecular Acceptors for High-Performance Fullerene-Free Polymer Solar Cells: Thiophene Being Superior to Selenophene. *Advanced Functional Materials*, **2017**, 27, 1702194	15.6	81
236	Efficient organic ternary solar cells with the third component as energy acceptor. *Nano Energy*, **2016**, 26, 180-191	17.1	81
235	Recent Progress on Photomultiplication Type Organic Photodetectors. *Laser and Photonics Reviews*, **2018**, 13, 1800204	8.3	81
234	Organic–inorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance. *Advanced Functional Materials*, **2015**, 25, 7226-7232	15.6	77
233	Ternary small molecule solar cells exhibiting power conversion efficiency of 10.3%. *Nano Energy*, **2017**, 39, 571-581	17.1	75
232	One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. *Nano Energy*, **2017**, 40, 163-169	17.1	75
231	Photomultiplication type organic photodetectors based on electron tunneling injection. *Nanoscale*, **2020**, 12, 1091-1099	7.7	74
230	Semitransparent polymer solar cells with 9.06% efficiency and 27.1% average visible transmittance obtained by employing a smart strategy. *Journal of Materials Chemistry A*, **2019**, 7, 7025-7032	13	74
229	Organic Photodetectors with Gain and Broadband/Narrowband Response under Top/Bottom Illumination Conditions. *Advanced Optical Materials*, **2018**, 6, 1800249	8.1	73

228	Efficient ternary organic photovoltaics with two polymer donors by minimizing energy loss. *Journal of Materials Chemistry A*, **2020**, 8, 1265-1272	13	71
227	Efficient small molecular ternary solar cells by synergistically optimized photon harvesting and phase separation. *Journal of Materials Chemistry A*, **2015**, 3, 16653-16662	13	70
226	Highly efficient quaternary organic photovoltaics by optimizing photogenerated exciton distribution and active layer morphology. *Nano Energy*, **2020**, 70, 104496	17.1	70
225	Thick-Film Organic Solar Cells Achieving over 11% Efficiency and Nearly 70% Fill Factor at Thickness over 400 nm. *Advanced Functional Materials*, **2020**, 30, 1908336	15.6	70
224	Photomultiplication Type Organic Photodetectors with Broadband and Narrowband Response Ability. *Advanced Optical Materials*, **2018**, 6, 1800001	8.1	70
223	Simultaneously improved efficiency and average visible transmittance of semitransparent polymer solar cells with two ultra-narrow bandgap nonfullerene acceptors. *Journal of Materials Chemistry A*, **2018**, 6, 21485-21492	13	69
222	A two-step strategy to clarify the roles of a solution processed PFN interfacial layer in highly efficient polymer solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 18432-18441	13	68
221	Photomultiplication photodetectors with P3HT:fullerene-free material as the active layers exhibiting a broad response. *Nanoscale*, **2016**, 8, 5578-86	7.7	68
220	Key issues and recent progress of high efficient organic light-emitting diodes. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2013**, 17, 69-104	16.4	68
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218	Rational compatibility in a ternary matrix enables all-small-molecule organic solar cells with over 16% efficiency. *Energy and Environmental Science*, **2021**, 14, 3945-3953	35.4	65
217	A liquid crystal material as the third component for ternary polymer solar cells with an efficiency of 10.83% and enhanced stability. *Journal of Materials Chemistry A*, **2017**, 5, 13145-13153	13	62
216	14.46% Efficiency small molecule organic photovoltaics enabled by the well trade-off between phase separation and photon harvesting. *Journal of Energy Chemistry*, **2021**, 57, 610-617	12	62
215	Ternary Organic Photovoltaic Cells Exhibiting 17.59% Efficiency with Two Compatible Y6 Derivations as Acceptor. *Solar Rrl*, **2021**, 5, 2100007	7.1	62
214	High efficiency inverted polymer solar cells with room-temperature titanium oxide/polyethylenimine films as electron transport layers. *Journal of Materials Chemistry A*, **2014**, 2, 17281-17285	13	61
213	Semitransparent organic solar cells exhibiting 13.02% efficiency and 20.2% average visible transmittance. *Journal of Materials Chemistry A*, **2021**, 9, 6797-6804	13	61
212	Highly Sensitive Organic Photodetectors with Tunable Spectral Response under Bi-Directional Bias. *Advanced Optical Materials*, **2016**, 4, 1711-1717	8.1	60
211	Wide Bandgap Polymer with Narrow Photon Harvesting in Visible Light Range Enables Efficient Semitransparent Organic Photovoltaics. *Advanced Functional Materials*,2107934	15.6	59

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209	High performance non-fullerene polymer solar cells based on PTB7-Th as the electron donor with 10.42% efficiency. *Journal of Materials Chemistry A*, **2018**, 6, 2549-2554	13	57
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207	A Critical Review on Efficient Thick-Film Organic Solar Cells. *Solar Rrl*, **2020**, 4, 2000364	7.1	57
206	Highly sensitive polymer photodetectors with a broad spectral response range from UV light to the near infrared region. *Journal of Materials Chemistry C*, **2015**, 3, 7386-7393	7.1	56
205	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. *Chemical Science*, **2018**, 9, 8142-8149	8.4	56
204	Revealing the working mechanism of polymer photodetectors with ultra-high external quantum efficiency. *Physical Chemistry Chemical Physics*, **2015**, 17, 30712-20	3.6	55
203	Self-Filtered Narrowband Perovskite Photodetectors with Ultrafast and Tuned Spectral Response. *Advanced Optical Materials*, **2017**, 5, 1700672	8.1	54
202	Ternary polymer solar cells with alloyed non-fullerene acceptor exhibiting 12.99% efficiency and 76.03% fill factor. *Nano Energy*, **2019**, 59, 58-65	17.1	50
201	Modeling and simulation of bulk heterojunction polymer solar cells. *Solar Energy Materials and Solar Cells*, **2014**, 127, 67-86	6.4	49
200	Ultra-Narrow-Band NIR Photomultiplication Organic Photodetectors Based on Charge Injection Narrowing. *Journal of Physical Chemistry Letters*, **2021**, 12, 2937-2943	6.4	48
199	Efficient Ternary Organic Solar Cells with Two Compatible Non-Fullerene Materials as One Alloyed Acceptor. *Small*, **2018**, 14, e1802983	11	48
198	Highly Sensitive Narrowband Photomultiplication-Type Organic Photodetectors Prepared by Transfer-Printed Technology. *Advanced Functional Materials*, **2021**, 31, 2106009	15.6	48
197	Improved Performance of Photomultiplication Polymer Photodetectors by Adjustment of P3HT Molecular Arrangement. *ACS Applied Materials & Interfaces*, **2015**, 7, 22660-8	9.5	47
196	Enhanced performance of polymer solar cells through sensitization by a narrow band gap polymer. *Solar Energy Materials and Solar Cells*, **2013**, 118, 30-35	6.4	47
195	Poly-l-lysine assisted synthesis of core-shell nanoparticles and conjugation with triphenylphosphonium to target mitochondria. *Journal of Materials Chemistry B*, **2013**, 1, 5143-5152	7.3	47
194	Over 15.7% Efficiency of Ternary Organic Solar Cells by Employing Two Compatible Acceptors with Similar LUMO Levels. *Small*, **2020**, 16, e2000441	11	45
193	Ternary small molecules organic photovoltaics exhibiting 12.84% efficiency. *Nano Energy*, **2019**, 66, 104119	17.1	43

192	Facile one-step synthesis and transformation of Cu(I)-doped zinc sulfide nanocrystals to Cu(1.94)S-ZnS heterostructured nanocrystals. *Langmuir*, **2013**, 29, 8728-35	4	43
191	The underlying reason of DIO additive on the improvement polymer solar cells performance. *Applied Surface Science*, **2014**, 305, 221-226	6.7	42
190	Synthesis and characteristics of a novel rare earth complex of Eu(TTA)2(N-HPA)Phen. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 188, 155-160	4.7	42
189	Smart Strategy: Transparent Hole-Transporting Polymer as a Regulator to Optimize Photomultiplication-type Polymer Photodetectors. *ACS Applied Materials & Interfaces*, **2021**, 13, 21565-21572	9.5	39
188	Highly sensitive, broad-band organic photomultiplication-type photodetectors covering UV-Vis-NIR. *Journal of Materials Chemistry C*,	7.1	36
187	Smart Ternary Strategy in Promoting the Performance of Polymer Solar Cells Based on Bulk-Heterojunction or Layer-By-Layer Structure. *Small*, **2021**, e2104215	11	35
186	Photomultiplication type narrowband organic photodetectors working at forward and reverse bias. *Physical Chemistry Chemical Physics*, **2017**, 19, 14424-14430	3.6	34
185	Molecular engineering of acceptors to control aggregation for optimized nonfullerene solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 5458-5466	13	34
184	Employing liquid crystal material as regulator to enhance performance of photomultiplication type polymer photodetectors. *Chemical Engineering Journal*, **2022**, 427, 131802	14.7	33
183	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. *Journal of Materials Chemistry A*, **2017**, 5, 23319-23327	13	32
182	Highly sensitive, sub-microsecond polymer photodetectors for blood oxygen saturation testing. *Science China Chemistry*, **2021**, 64, 1302-1309	7.9	32
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180	Effect of an Ultra-thin Molybdenum Trioxide Layer and Illumination Intensity on the Performance of Organic Photovoltaic Devices *Energy & Fuels*, **2010**, 24, 3739-3742	4.1	31
179	Efficient ternary polymer solar cells with a parallel-linkage structure. *Journal of Materials Chemistry C*, **2015**, 3, 11930-11936	7.1	30
178	Controllable synthesis of silver and silver sulfide nanocrystals via selective cleavage of chemical bonds. *Nanotechnology*, **2013**, 24, 355602	3.4	30
177	Recent Progress of Organic Photovoltaics with Efficiency over 17%. *Energies*, **2021**, 14, 4200	3.1	30
176	Simultaneously Enhanced Efficiency and Stability of Polymer Solar Cells by Employing Solvent Additive and Upside-down Drying Method. *ACS Applied Materials & Interfaces*, **2017**, 9, 8863-8871	9.5	29
175	High efficient ternary polymer solar cells based on absorption complementary materials as electron donor. *Solar Energy Materials and Solar Cells*, **2015**, 141, 154-161	6.4	29

174	Highly sensitive all-polymer photodetectors with ultraviolet-visible to near-infrared photo-detection and their application as an optical switch. *Journal of Materials Chemistry C*, **2021**, 9, 5349-5355	7.1	29
173	Ternary non-fullerene polymer solar cells with an efficiency of 11.6% by simultaneously optimizing photon harvesting and phase separation. *Journal of Materials Chemistry A*, **2018**, 6, 11751-11758	13	29
172	Tuning nanoscale morphology using mixed solvents and solvent vapor treatment for high performance polymer solar cells. *RSC Advances*, **2014**, 4, 48724-48733	3.7	27
171	The effect of electric field strength on electroplex emission at the interface of NPB/PBD organic light-emitting diodes. *Applied Surface Science*, **2007**, 253, 4025-4028	6.7	27
170	Influence of evaporation conditions of Alq3on the performance of organic light emitting diodes. *Journal Physics D: Applied Physics*, **2007**, 40, 4485-4488	3	26
169	Ternary organic solar cells with J71 as donor and alloyed acceptors exhibiting 13.16% efficiency. *Nano Energy*, **2019**, 63, 103888	17.1	23
168	Enhanced performance of polymer solar cells by employing a ternary cascade energy structure. *Physical Chemistry Chemical Physics*, **2014**, 16, 16103-9	3.6	23
167	Luminescent characteristics and energy transfer of Ca2BO3Cl:Sm3+, Eu3+ red phosphor. *Materials Research Bulletin*, **2012**, 47, 3825-3829	5.1	22
166	Optimization of charge carrier transport balance for performance improvement of PDPP3T-based polymer solar cells prepared using a hot solution. *Physical Chemistry Chemical Physics*, **2015**, 17, 9835-40	3.6	21
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164	Arrays of crystalline C60 and pentacene nanocolumns. *Applied Physics Letters*, **2007**, 90, 193117	3.4	21
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162	An asymmetrical fused-ring electron acceptor designed by a cross-conceptual strategy achieving 15.6% efficiency. *Journal of Materials Chemistry A*, **2020**, 8, 14583-14591	13	19
161	Ultraviolet to near-infrared broadband organic photodetectors with photomultiplication. *Organic Electronics*, **2020**, 83, 105739	3.5	19
160	Acceptor-free photomultiplication-type organic photodetectors. *Nanoscale*, **2019**, 11, 16406-16413	7.7	19
159	Synthesis and photovoltaic performance of novel thiophenyl-methylene-9H-fluorene-based low bandgap polymers. *Polymer*, **2013**, 54, 4930-4939	3.9	19
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157	Organic ultraviolet photodetector based on phosphorescent material. *Optics Letters*, **2013**, 38, 3823-6	3	19

156	Over 17% Efficiency of Ternary Organic Photovoltaics Employing Two Acceptors with an Acceptor-Donor-Acceptor Configuration. *ACS Applied Materials & Interfaces*, **2021**, 13, 57684-57692	9.5	19
155	High efficient inverted polymer solar cells with different annealing treatment. *Materials Science and Engineering C*, **2012**, 32, 685-691	8.3	18
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148	Over 17.6% Efficiency Organic Photovoltaic Devices with Two Compatible Polymer Donors. *Solar Rrl*, **2021**, 5, 2100175	7.1	17
147	A Chlorinated Donor Polymer Achieving High-Performance Organic Solar Cells with a Wide Range of Polymer Molecular Weight. *Advanced Functional Materials*, **2021**, 31, 2102413	15.6	17
146	Two-Pronged Effect of Warm Solution and Solvent-Vapor Annealing for Efficient and Stable All-Small-Molecule Organic Solar Cells. *ACS Energy Letters*, **2021**, 6, 2898-2906	20.1	17
145	Thiadiazole quinoxaline-based copolymers with ~1.0´eV bandgap for ternary polymer solar cells. *Polymer*, **2015**, 79, 12-20	3.9	16
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143	Novel Nitrogen-Containing Heterocyclic Non-Fullerene Acceptors for Organic PhotovoltaicCells: Different End-Capping Groups Leading to a Big Difference of Power Conversion Efficiencies. *ACS Applied Materials & Interfaces*, **2020**, 12, 13068-13076	9.5	15
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141	Improved photomultiplication in inverted-structure organic photodetectors via interfacial engineering. *Applied Physics Letters*, **2018**, 113, 043303	3.4	15
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130	High-Performance Ladder-Type Heteroheptacene-Based Nonfullerene Acceptors Enabled by Asymmetric Cores with Enhanced Noncovalent Intramolecular Interactions. *Angewandte Chemie - International Edition*, **2021**, 60, 19314-19323	16.4	15
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124	Layered optimization strategy enables over 17.8% efficiency of layer-by-layer organic photovoltaics. *Chemical Engineering Journal*, **2022**, 442, 136368	14.7	14
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