

Hong-Zheng Chen

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.

301
papers

16,846
citations

61
h-index

120
g-index

321
ext. papers

20,557
ext. citations

10.7
avg, IF

7.2
L-index

#	Paper	IF	Citations
301	High-Performance Organic Solar Cells from Non-Halogenated Solvents. <i>Advanced Functional Materials</i> , 2022 , 32, 2107827	15.6	27
300	Non-isothermal crystallization kinetics and rheological behaviors of PBT/PET blends: effects of PET property and nano-silica content.. <i>Designed Monomers and Polymers</i> , 2022 , 25, 32-46	3.1	
299	Non-halogenated solvents processed efficient ITO-free flexible organic solar cells with up-scaled area.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200049	4.8	1
298	High-Efficiency ITO-Free Organic Photovoltaics with Superior Flexibility and Up-Scalability.. <i>Advanced Materials</i> , 2022 , e2200044	24	6
297	Desired open-circuit voltage increase enables efficiencies approaching 19% in symmetric-asymmetric molecule ternary organic photovoltaics. <i>Joule</i> , 2022 , 6, 662-675	27.8	29
296	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022 , 65, 224-268	7.9	48
295	Controllable Anion Doping of Electron Acceptors for High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , 2022 , 7, 1764-1773	20.1	2
294	High-Performance Organic Solar Modules via the Bilayer-Merged-Annealing Assisted Blading Coating.. <i>Advanced Materials</i> , 2022 , e2110569	24	5
293	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18.. <i>Nature Communications</i> , 2022 , 13, 2598	17.4	18
292	Stable Bimetallic Polyphthalocyanine Covalent Organic Frameworks as Superior Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18052-18060	16.4	23
291	Conformation Locking of Simple Nonfused Electron Acceptors Via Multiple Intramolecular Noncovalent Bonds to Improve the Performances of Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 819-827	6.1	10
290	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , 2021 , 5, 914-930	27.8	110
289	Manipulating Perovskite Precursor Solidification toward 21% Pristine MAPbI ₃ Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100114	7.1	4
288	Mitigating Dark Current for High-Performance Near-Infrared Organic Photodiodes via Charge Blocking and Defect Passivation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16766-16774	9.5	19
287	Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. <i>Angewandte Chemie</i> , 2021 , 133, 10901-10908	3.6	1
286	Conformation tuning of simple non-fused electron acceptors via oxygen and sulfur substitutions and its effects on photovoltaics. <i>Multifunctional Materials</i> , 2021 , 4, 024003	5.2	0
285	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. <i>Joule</i> , 2021 , 5, 945-957	27.8	49

284	Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10806-10813	16.4	13
283	Efficient and stable inverted perovskite solar cells incorporating 4-Fluorobenzylammonium iodide. <i>Organic Electronics</i> , 2021 , 92, 106124	3.5	5
282	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie</i> , 2021 , 133, 13074-13080	3.6	3
281	Narrowband Near-Infrared Photodetector Enabled by Dual Functional Internal-Filter-Induced Selective Charge Collection. <i>Advanced Optical Materials</i> , 2021 , 9, 2100288	8.1	12
280	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3049	17.4	23
279	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12964-12970	16.4	56
278	Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Non-Fullerene Acceptors with Quinoxaline as the Core. <i>ChemSusChem</i> , 2021 , 14, 3599-3606	8.3	7
277	Universal Bottom Contact Modification with Diverse 2D Spacers for High-Performance Inverted Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2104036	15.6	8
276	Non-fullerene acceptors with nitrogen-containing six-membered heterocycle cores for the applications in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111046	6.4	7
275	High-Performance Upscaled Indium Tin Oxide-Free Organic Solar Cells with Visual Esthetics and Flexibility. <i>Solar Rrl</i> , 2021 , 5, 2100339	7.1	3
274	Conjugated Polymers for Photon-to-Electron and Photon-to-Fuel Conversions. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 60-92	4.3	20
273	Intrinsically Chemo- and Thermostable Electron Acceptors for Efficient Organic Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 183-190	5.1	6
272	Tuning interfacial chemical interaction for high-performance perovskite solar cell with PEDOT:PSS as hole transporting layer. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14920-14927	13	3
271	High-Performance Semi-Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. <i>Advanced Energy Materials</i> , 2021 , 11, 2003408	21.8	20
270	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , 2021 , 33, e2007231	24	243
269	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 4627	17.4	29
268	Marcus Hole Transfer Governs Charge Generation and Device Operation in Nonfullerene Organic Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 2971-2981	20.1	11
267	A Benzobis(thiazole)-Based Wide Bandgap Polymer Donor Enables over 15% Efficiency Organic Photovoltaics with a Flat Energetic Offset. <i>Macromolecules</i> , 2021 , 54, 7862-7869	5.5	3

266	De Novo Fabrication of Large-Area and Self-Standing Covalent Organic Framework Films for Efficient Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44806-44813	9.5	1
265	Boosting photovoltaic performance of ternary organic solar cells by integrating a multi-functional guest acceptor. <i>Nano Energy</i> , 2021 , 90, 106538	17.1	16
264	Bending TIPS-pentacene single crystals: from morphology to transistor performance. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5621-5627	7.1	2
263	Manipulating the film morphology evolution toward green solvent-processed perovskite solar cells. <i>SusMat</i> , 2021 , 1, 537-544		3
262	Dilution effect for highly efficient multiple-component organic solar cells. <i>Nature Nanotechnology</i> , 2021 ,	28.7	16
261	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1910466	15.6	36
260	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
259	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2001160	24	162
258	Novel cost-effective acceptor:P3HT based organic solar cells exhibiting the highest ever reported industrial readiness factor. <i>Materials Advances</i> , 2020 , 1, 658-665	3.3	7
257	Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16700-16706	9.5	53
256	Intrinsically Substitutional Carbon Doping in CVD-Grown Monolayer MoS ₂ and the Band Structure Modulation. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1055-1064	4	6
255	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
254	High-Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and See-Through Functions. <i>Advanced Materials</i> , 2020 , 32, e2001621	24	82
253	Additive-Assisted Hot-Casting Free Fabrication of DionJacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. <i>Solar Rrl</i> , 2020 , 4, 2070074	7.1	3
252	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. <i>Energy and Environmental Science</i> , 2020 , 13, 635-645	35.4	462
251	New Phase for Organic Solar Cell Research: Emergence of Y-Series Electron Acceptors and Their Perspectives. <i>ACS Energy Letters</i> , 2020 , 5, 1554-1567	20.1	301
250	Additive-Assisted Hot-Casting Free Fabrication of DionJacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. <i>Solar Rrl</i> , 2020 , 4, 2000087	7.1	32
249	Multifunctional semitransparent organic solar cells with excellent infrared photon rejection. <i>Chinese Chemical Letters</i> , 2020 , 31, 1608-1611	8.1	20

248	Bulk-Heterojunction with Long-Range Ordering: C Single-Crystal with Incorporated Conjugated Polymer Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1630-1635	16.4	19
247	A nuanced approach for assessing OPV materials for large scale applications. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 940-949	5.8	8
246	High-efficiency organic solar cells with low voltage-loss of 0.46 V. <i>Chinese Chemical Letters</i> , 2020 , 31, 1991-1996	8.1	11
245	Two-dimensional perovskite solar cells with high luminescence and ultra-low open-circuit voltage deficit. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22175-22180	13	6
244	An Ink-Composition Engineering Approach for Upscaling of Organic Solar Cells with High-Efficiency Retention Factor. <i>Solar Rrl</i> , 2020 , 4, 2000246	7.1	9
243	Simple Near-Infrared Electron Acceptors for Efficient Photovoltaics and Sensitive Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39515-39523	9.5	24
242	Influences of Quinoid Structures on Stability and Photovoltaic Performance of Nonfullerene Acceptors. <i>Solar Rrl</i> , 2020 , 4, 2000286	7.1	10
241	Semiconductive Covalent Organic Frameworks: Structural Design, Synthesis, and Application. <i>Small Structures</i> , 2020 , 1, 2000021	8.7	21
240	Precisely Controlling the Position of Bromine on the End Group Enables Well-Regular Polymer Acceptors for All-Polymer Solar Cells with Efficiencies over 15. <i>Advanced Materials</i> , 2020 , 32, e2005942	24	144
239	Semitransparent Organic Solar Cells with Vivid Colors. <i>ACS Energy Letters</i> , 2020 , 5, 3115-3123	20.1	43
238	Polymer Modification on the NiO Hole Transport Layer Boosts Open-Circuit Voltage to 1.19 V for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46340-46347	9.5	29
237	Near infrared electron acceptors with a photoresponse beyond 1000 nm for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18154-18161	13	27
236	Stable Quasi-2D Perovskite Solar Cells with Efficiency over 18% Enabled by HeatLight Co-Treatment. <i>Advanced Functional Materials</i> , 2020 , 30, 2004188	15.6	31
235	Hydrogen bond enables highly efficient and stable two-dimensional perovskite solar cells based on 4-pyridine-ethylamine. <i>Organic Electronics</i> , 2019 , 67, 122-127	3.5	15
234	Combining Fused-Ring and Unfused-Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. <i>Solar Rrl</i> , 2019 , 3, 1900317	7.1	24
233	Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 513-519	7.8	37
232	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3073-3082	16.4	251
231	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. <i>Nano Research</i> , 2019 , 12, 777-783	10	25

230	Simply planarizing nonfused perylene diimide based acceptors toward promising non-fullerene solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8092-8100	7.1	12
229	Organic Heterojunctions Formed by Interfacing Two Single Crystals from a Mixed Solution. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10007-10015	16.4	23
228	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
227	The Second Spacer Cation Assisted Growth of a 2D Perovskite Film with Oriented Large Grain for Highly Efficient and Stable Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9409-9413	16.4	84
226	Exploiting Two-Step Processed Mixed 2D/3D Perovskites for Bright Green Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2019 , 7, 1900465	8.1	13
225	The Second Spacer Cation Assisted Growth of a 2D Perovskite Film with Oriented Large Grain for Highly Efficient and Stable Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 9509-9513	3.6	11
224	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14153-14162	13.1	21
223	Simple non-fused electron acceptors for efficient and stable organic solar cells. <i>Nature Communications</i> , 2019 , 10, 2152	17.4	214
222	Engineering the underlying surface to manipulate the growth of 2D perovskites for highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14027-14032	13	29
221	Patterning the Internal Structure of Single Crystals by Gel Incorporation. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	9
220	Manipulating the Mixed-Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , 2019 , 31, e1901284	24	84
219	Black Phosphorus Quantum Dots Induced High-Quality Perovskite Film for Efficient and Thermally Stable Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900132	7.1	35
218	Electron-deficient core fused-ring based non-Fullerene acceptor enables over 15% efficiency in single junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 403-404	7.9	13
217	Elucidation of heterogeneous graphene nucleation and growth through Cu surface engineering. <i>Carbon</i> , 2019 , 147, 120-125	10.4	3
216	Highly efficient and thermal stable guanidinium-based two-dimensional perovskite solar cells via partial substitution with hydrophobic ammonium. <i>Science China Chemistry</i> , 2019 , 62, 859-865	7.9	22
215	Near-Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. <i>Small Methods</i> , 2019 , 3, 1900531	12.8	50
214	Sn-Pb Binary Perovskite Films with High Crystalline Quality for High Performance Solar Cells. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1031-1035	4.9	6
213	Highly Efficient Guanidinium-Based Quasi 2D Perovskite Solar Cells via a Two-Step Post-Treatment Process. <i>Small Methods</i> , 2019 , 3, 1900375	12.8	35

212	Two-dimensional inverted planar perovskite solar cells with efficiency over 15% via solvent and interface engineering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18980-18986	13	29
211	Boosting Organic/Metal Oxide Heterojunction via Conjugated Small Molecules for Efficient and Stable Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1900887	21.8	30
210	Solvation effect in precursor solution enables over 16% efficiency in thick 2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19423-19429	13	19
209	Non-fullerene Acceptors with a Thieno[3,4-c]pyrrole-4,6-dione (TPD) Core for Efficient Organic Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019 , 37, 1005-1014	3.5	38
208	Inverted Perovskite Solar Cells Based on Small Molecular Hole Transport Material C8-Dioctylbenzothienobenzothiophene. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1239-1244	4.9	9
207	Toward Highly Thermal Stable Perovskite Solar Cells by Rational Design of Interfacial Layer. <i>IScience</i> , 2019 , 22, 534-543	6.1	22
206	A Simple Electron Acceptor with Unfused Backbone for Polymer Solar Cells. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 394-400	3.8	38
205	Tuning terminal aromatics of electron acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27632-27639	13	57
204	Electronic properties of polymorphic two-dimensional layered chromium disulphide. <i>Nanoscale</i> , 2019 , 11, 20123-20132	7.7	32
203	Highly Efficient Sn/Pb Binary Perovskite Solar Cell via Precursor Engineering: A Two-Step Fabrication Process. <i>Advanced Functional Materials</i> , 2019 , 29, 1807024	15.6	88
202	A non-fullerene acceptor enables efficient P3HT-based organic solar cells with small voltage loss and thickness insensitivity. <i>Chinese Chemical Letters</i> , 2019 , 30, 1277-1281	8.1	19
201	Facilitate charge transfer at donor/acceptor interface in bulk heterojunction organic photovoltaics by two-dimensional nanoflakes. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 190, 75-82	6.4	13
200	Influence of Bridging Groups on the Photovoltaic Properties of Wide-Bandgap Poly(BDTT-alt-BDD)s. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1394-1401	9.5	5
199	Electron transport at the interface of organic semiconductors and hydroxyl-containing dielectrics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12001-12005	7.1	10
198	Recent progress in 2D/quasi-2D layered metal halide perovskites for solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11063-11077	13	144
197	Orientation Regulation of Phenylethylammonium Cation Based 2D Perovskite Solar Cell with Efficiency Higher Than 11%. <i>Advanced Energy Materials</i> , 2018 , 8, 1702498	21.8	240
196	PbI2 band gap engineering by gel incorporation. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 362-368	7.8	9
195	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, 1705208	24	272

194	Construction of Transparent Cellulose-Based Nanocomposite Papers and Potential Application in Flexible Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8040-8047	8.3	64
193	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5429-5434	9.6	158
192	Achieving high-performance thick-film perovskite solar cells with electron transporting Bingel fullerenes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15495-15503	13	19
191	Assessing the synergy effect of additive and matrix on single-crystal growth: Morphological revolution resulted from gel-mediated enhancement on CIT-calcite interaction. <i>Chinese Chemical Letters</i> , 2018 , 29, 1296-1300	8.1	5
190	Conductive fullerene surfactants via anion doping as cathode interlayers for efficient organic and perovskite solar cells. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 2845-2851	5.2	25
189	Interfacial engineering enables high efficiency with a high open-circuit voltage above 1.23 V in 2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18010-18017	13	32
188	Modulate Molecular Interaction between Hole Extraction Polymers and Lead Ions toward Hysteresis-Free and Efficient Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800090	4.6	11
187	Visualizing the toughening origins of gel-grown calcite single-crystal composites. <i>Chinese Chemical Letters</i> , 2018 , 29, 1666-1670	8.1	10
186	Low-bandgap mixed tin/lead iodide perovskite with large grains for high performance solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13090-13095	13	42
185	A Near-Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1800755	13.6	85
184	Highly oriented two-dimensional formamidinium lead iodide perovskites with a small bandgap of 1.51 eV. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 121-128	7.8	72
183	An inverted planar solar cell with 13% efficiency and a sensitive visible light detector based on orientation regulated 2D perovskites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24633-24640	13	26
182	Enhanced Charge Transfer between Fullerene and Non-Fullerene Acceptors Enables Highly Efficient Ternary Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42444-42452	9.5	49
181	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1803769	24	102
180	Enhanced performance of inverted non-fullerene organic solar cells through modifying zinc oxide surface with self-assembled monolayers. <i>Organic Electronics</i> , 2018 , 63, 143-148	3.5	15
179	Enhancement of intra- and inter-molecular π -conjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2006-2012	7.8	33
178	Perovskite/Organic Bulk-Heterojunction Integrated Ultrasensitive Broadband Photodetectors with High Near-Infrared External Quantum Efficiency over 70. <i>Small</i> , 2018 , 14, e1802349	11	33
177	Revealing the effects of molecular packing on the performances of polymer solar cells based on ADDA type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12132-12141	13	80

176	Highly efficient perovskite solar cells fabricated by simplified one-step deposition method with non-halogenated anti-solvents. <i>Organic Electronics</i> , 2018 , 59, 330-336	3.5	11
175	High-Performance Thickness Insensitive Perovskite Solar Cells with Enhanced Moisture Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1800438	21.8	83
174	Solution-processed CuO as an efficient hole-extraction layer for inverted planar heterojunction perovskite solar cells. <i>Chinese Chemical Letters</i> , 2017 , 28, 13-18	8.1	56
173	Shape change of calcite single crystals to accommodate interfacial curvature: Crystallization in presence of Mg 2+ ions and agarose gel-networks. <i>Chinese Chemical Letters</i> , 2017 , 28, 857-862	8.1	8
172	Recent advances in perovskite solar cells: efficiency, stability and lead-free perovskite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11462-11482	13	307
171	Preparation of Single-Crystalline Heterojunctions for Organic Electronics. <i>Advanced Materials</i> , 2017 , 29, 1606101	24	65
170	Exploring oxygen in graphene chemical vapor deposition synthesis. <i>Nanoscale</i> , 2017 , 9, 3719-3735	7.7	26
169	Phosphate ester side-chain-modified conjugated polymer for hybrid solar cells. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	2
168	A-D-A small molecule donors based on pyrene and diketopyrrolopyrrole for organic solar cells. <i>Science China Chemistry</i> , 2017 , 60, 561-569	7.9	15
167	Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9649-9654	13	72
166	Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9396-9401	13	48
165	Enhanced performance of field-effect transistors based on C60 single crystals with conjugated polyelectrolyte. <i>Science China Chemistry</i> , 2017 , 60, 490-496	7.9	6
164	Molecular Engineered Hole-Extraction Materials to Enable Dopant-Free, Efficient p-i-n Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700012	21.8	159
163	Synthesis and fast transfer of monolayer MoS on reusable fused silica. <i>Nanoscale</i> , 2017 , 9, 6984-6990	7.7	13
162	A non-fullerene electron acceptor with a spirobifluorene core and four diketopyrrolopyrrole arms end capped by 4-fluorobenzene. <i>Dyes and Pigments</i> , 2017 , 143, 217-222	4.6	13
161	Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. <i>Nano Research</i> , 2017 , 10, 3765-3774	10	18
160	Silver nanowire-graphene hybrid transparent conductive electrodes for highly efficient inverted organic solar cells. <i>Nanotechnology</i> , 2017 , 28, 305402	3.4	21
159	Highly Efficient Organic Solar Cells Consisting of Double Bulk Heterojunction Layers. <i>Advanced Materials</i> , 2017 , 29, 1606729	24	104

158	Improved photovoltaic performance from high quality perovskite thin film grown with the assistance of PC71BM. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 309-316	3.5	16
157	Molecular electron acceptors for efficient fullerene-free organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3440-3458	3.6	101
156	Donor-Acceptor Conjugated Macrocycles: Synthesis and Host-Guest Coassembly with Fullerene toward Photovoltaic Application. <i>ACS Nano</i> , 2017 , 11, 11701-11713	16.7	44
155	Long-range ordering of composites for organic electronics: TIPS-pentacene single crystals with incorporated nano-fibers. <i>Chinese Chemical Letters</i> , 2017 , 28, 2121-2124	8.1	17
154	Efficient Organic Solar Cells with Non-Fullerene Acceptors. <i>Small</i> , 2017 , 13, 1701120	11	185
153	Vertically Oriented 2D Layered Perovskite Solar Cells with Enhanced Efficiency and Good Stability. <i>Small</i> , 2017 , 13, 1700611	11	158
152	Donor-acceptor (D-A) terpolymers based on alkyl-DPP and t-BocDPP moieties for polymer solar cells. <i>Chinese Chemical Letters</i> , 2017 , 28, 2223-2226	8.1	6
151	Narrow bandgap semiconducting polymers for solar cells with near-infrared photo response and low energy loss. <i>Tetrahedron Letters</i> , 2017 , 58, 2975-2980	2	6
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