

Yinhua Zhou

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161
papers

8,625
citations

50
h-index

88
g-index

163
ext. papers

10,071
ext. citations

10.2
avg, IF

6.07
L-index

#	Paper	IF	Citations
161	A universal method to produce low-work function electrodes for organic electronics. <i>Science</i> , 2012 , 336, 327-32	33.3	1642
160	Recyclable organic solar cells on cellulose nanocrystal substrates. <i>Scientific Reports</i> , 2013 , 3, 1536	4.9	229
159	A Semitransparent Inorganic Perovskite Film for Overcoming Ultraviolet Light Instability of Organic Solar Cells and Achieving 14.03% Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1800855	24	183
158	Enhanced Ion Conductivity in Conducting Polymer Binder for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702314	21.8	180
157	Chlorine-Incorporation-Induced Formation of the Layered Phase for Antimony-Based Lead-Free Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1019-1027	16.4	178
156	Improved Performance of Printable Perovskite Solar Cells with Bifunctional Conjugated Organic Molecule. <i>Advanced Materials</i> , 2018 , 30, 1705786	24	176
155	High performance polymeric charge recombination layer for organic tandem solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 9827	35.4	171
154	Nickel oxide nanoparticles for efficient hole transport in p-i-n and n-i-p perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6597-6605	13	159
153	Inverted and transparent polymer solar cells prepared with vacuum-free processing. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 497-500	6.4	143
152	Investigation on polymer anode design for flexible polymer solar cells. <i>Applied Physics Letters</i> , 2008 , 92, 233308	3.4	127
151	Indium tin oxide-free and metal-free semitransparent organic solar cells. <i>Applied Physics Letters</i> , 2010 , 97, 153304	3.4	125
150	Free-Standing Conducting Polymer Films for High-Performance Energy Devices. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 979-82	16.4	116
149	X-shaped oligothiophenes as a new class of electron donors for bulk-heterojunction solar cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7702-7	3.4	115
148	A two-terminal perovskite/perovskite tandem solar cell. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1208-1213	13	112
147	Electrical and Optical Properties of ZnO Processed by Atomic Layer Deposition in Inverted Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20713-20718	3.8	112
146	12.5% Flexible Nonfullerene Solar Cells by Passivating the Chemical Interaction Between the Active Layer and Polymer Interfacial Layer. <i>Advanced Materials</i> , 2019 , 31, e1806616	24	110
145	A vertically integrated solar-powered electrochromic window for energy efficient buildings. <i>Advanced Materials</i> , 2014 , 26, 4895-900	24	107

144	Conductivity Enhancement of PEDOT:PSS Films via Phosphoric Acid Treatment for Flexible All-Plastic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14089-94	9.5	106
143	Eliminated hysteresis and stabilized power output over 20% in planar heterojunction perovskite solar cells by compositional and surface modifications to the low-temperature-processed TiO ₂ layer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9402-9411	13	101
142	Efficient Colorful Perovskite Solar Cells Using a Top Polymer Electrode Simultaneously as Spectrally Selective Antireflection Coating. <i>Nano Letters</i> , 2016 , 16, 7829-7835	11.5	100
141	Efficient recyclable organic solar cells on cellulose nanocrystal substrates with a conducting polymer top electrode deposited by film-transfer lamination. <i>Organic Electronics</i> , 2014 , 15, 661-666	3.5	98
140	Stabilizing Perovskite Solar Cells to IEC61215:2016 Standards with over 9,000-h Operational Tracking. <i>Joule</i> , 2020 , 4, 2646-2660	27.8	97
139	Highly Stretchable Conductive Glue for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704858	15.6	90
138	Inverted organic solar cells with ITO electrodes modified with an ultrathin Al ₂ O ₃ buffer layer deposited by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6189		88
137	All-plastic solar cells with a high photovoltaic dynamic range. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3492	13	87
136	Direct correlation between work function of indium-tin-oxide electrodes and solar cell performance influenced by ultraviolet irradiation and air exposure. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12014-21	3.6	83
135	Photocatalytic effect of ZnO on the stability of nonfullerene acceptors and its mitigation by SnO ₂ for nonfullerene organic solar cells. <i>Materials Horizons</i> , 2019 , 6, 1438-1443	14.4	80
134	Synergistic Effect of PbI ₂ Passivation and Chlorine Inclusion Yielding High Open-Circuit Voltage Exceeding 1.15 V in Both Mesoscopic and Inverted Planar CH ₃ NH ₃ PbI ₃ (Cl)-Based Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 8119-8127	15.6	77
133	Tailoring vertical phase distribution of quasi-two-dimensional perovskite films via surface modification of hole-transporting layer. <i>Nature Communications</i> , 2019 , 10, 878	17.4	76
132	Chemical reaction between an ITIC electron acceptor and an amine-containing interfacial layer in non-fullerene solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2273-2278	13	73
131	All-spin-coating vacuum-free processed semi-transparent inverted polymer solar cells with PEDOT:PSS anode and PAH-D interfacial layer. <i>Organic Electronics</i> , 2010 , 11, 1327-1331	3.5	73
130	Robust metal ion-chelated polymer interfacial layer for ultraflexible non-fullerene organic solar cells. <i>Nature Communications</i> , 2020 , 11, 4508	17.4	73
129	Synthesis of 4,7-Diphenyl-2,1,3-Benzothiadiazole-Based Copolymers and Their Photovoltaic Applications. <i>Macromolecules</i> , 2009 , 42, 4977-4984	5.5	72
128	Flexible All-Solution-Processed Organic Solar Cells with High-Performance Nonfullerene Active Layers. <i>Advanced Materials</i> , 2020 , 32, e1907840	24	71
127	Enhanced Charge-Carrier Injection and Collection Via Lamination of Doped Polymer Layers p-Doped with a Solution-Processible Molybdenum Complex. <i>Advanced Functional Materials</i> , 2014 , 24, 2197-2204	15.6	70

126	High-Performance Hazy Silver Nanowire Transparent Electrodes through Diameter Tailoring for Semitransparent Photovoltaics. <i>Advanced Functional Materials</i> , 2018 , 28, 1705409	15.6	69
125	Semitransparent Fully Air Processed Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17776-81	9.5	65
124	Flexible all-solution-processed all-plastic multijunction solar cells for powering electronic devices. <i>Materials Horizons</i> , 2016 , 3, 452-459	14.4	63
123	Development of polymerfullerene solar cells. <i>National Science Review</i> , 2016 , 3, 222-239	10.8	63
122	Multifolded polymer solar cells on flexible substrates. <i>Applied Physics Letters</i> , 2008 , 93, 033302	3.4	62
121	Light-Soaking-Free Inverted Polymer Solar Cells with an Efficiency of 10.5% by Compositional and Surface Modifications to a Low-Temperature-Processed TiO Electron-Transport Layer. <i>Advanced Materials</i> , 2017 , 29, 1604044	24	60
120	Oxygen management in carbon electrode for high-performance printable perovskite solar cells. <i>Nano Energy</i> , 2018 , 53, 160-167	17.1	59
119	Optical properties and conductivity of PEDOT:PSS films treated by polyethylenimine solution for organic solar cells. <i>Organic Electronics</i> , 2015 , 21, 144-148	3.5	58
118	A Free-Standing High-Output Power Density Thermoelectric Device Based on Structure-Ordered PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700496	6.4	58
117	Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. <i>ACS Nano</i> , 2018 , 12, 4440-4457	15.7	56
116	Universal Strategy To Reduce Noise Current for Sensitive Organic Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9176-9183	9.5	55
115	Enhancing Photovoltaic Performance of Inverted Planar Perovskite Solar Cells by Cobalt-Doped Nickel Oxide Hole Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14153-14159	9.5	54
114	Optimization of a polymer top electrode for inverted semitransparent organic solar cells. <i>Organic Electronics</i> , 2011 , 12, 827-831	3.5	53
113	Flexible nonfullerene organic solar cells based on embedded silver nanowires with an efficiency up to 11.6%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1989-1995	13	50
112	Progress and challenges in perovskite photovoltaics from single- to multi-junction cells. <i>Materials Today Energy</i> , 2019 , 12, 70-94	7	50
111	Low-Temperature-Processed Amorphous Bi ₂ S ₃ Film as an Inorganic Electron Transport Layer for Perovskite Solar Cells. <i>ACS Photonics</i> , 2016 , 3, 2122-2128	6.3	49
110	Synthesis and photophysical properties of triphenylamine-based dendrimers with 1,3,5-triphenylbenzene cores. <i>Tetrahedron Letters</i> , 2007 , 48, 5877-5881	2	49
109	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022 , 65, 224-268	9.9	48

108	Flexible large-area organic tandem solar cells with high defect tolerance and device yield. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3186-3192	13	47
107	Metal electrode-free perovskite solar cells with transfer-laminated conducting polymer electrode. <i>Optics Express</i> , 2015 , 23, A83-91	3.3	47
106	Oriented Growth of Al ₂ O ₃ :ZnO Nanolaminates for Use as Electron-Selective Electrodes in Inverted Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 1531-1538	15.6	47
105	Indium tin oxide (ITO)-free, top-illuminated, flexible perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14017-14024	13	47
104	Efficient Perovskite Photovoltaic-Thermoelectric Hybrid Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1702937	21.8	45
103	Efficiency enhancement of polymer solar cells by incorporating a self-assembled layer of silver nanodisks. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3281-3286	6.4	44
102	Recent Advances of Synthesis, Properties, Film Fabrication Methods, Modifications of Poly(3,4-ethylenedioxythiophene), and Applications in Solution-Processed Photovoltaics. <i>Advanced Functional Materials</i> , 2020 , 30, 2006213	15.6	44
101	Donor-Acceptor Molecule as the Acceptor for Polymer-Based Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7882-7886	3.8	43
100	Intralayer A-Site Compositional Engineering of Ruddlesden-Popper Perovskites for Thermostable and Efficient Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 1216-1224	20.1	41
99	A nonionic surfactant simultaneously enhancing wetting property and electrical conductivity of PEDOT:PSS for vacuum-free organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 311-318	6.4	41
98	Solution processed flexible hybrid cell for concurrently scavenging solar and mechanical energies. <i>Nano Energy</i> , 2015 , 16, 301-309	17.1	41
97	Reduction and oxidation of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) induced by methylamine (CH ₃ NH ₂)-containing atmosphere for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4305-4311	13	41
96	ITO-free large-area flexible organic solar cells with an embedded metal grid. <i>Organic Electronics</i> , 2015 , 17, 349-354	3.5	41
95	Synthesis and photovoltaic properties of novel solution-processable triphenylamine-based dendrimers with sulfonyldibenzene cores. <i>New Journal of Chemistry</i> , 2009 , 33, 2120	3.6	41
94	Novel donor-acceptor molecules as donors for bulk heterojunction solar cells. <i>Synthetic Metals</i> , 2007 , 157, 502-507	3.6	40
93	Polyethylenimine aqueous solution: a low-cost and environmentally friendly formulation to produce low-work-function electrodes for efficient easy-to-fabricate organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22628-33	9.5	38
92	Bifunctional Al ₂ O ₃ Interlayer Leads to Enhanced Open-Circuit Voltage for Hole-Conductor-Free Carbon-Based Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800002	7.1	37
91	Polymer solar cells with NiO hole-collecting interlayers processed by atomic layer deposition. <i>Organic Electronics</i> , 2013 , 14, 2802-2808	3.5	37

90	Semitransparent, non-fullerene and flexible all-plastic solar cells. <i>Polymer</i> , 2016 , 107, 108-112	3.9	36
89	Low Work Function Surface Modifiers for Solution-Processed Electronics: A Review. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701404	4.6	35
88	Double-side responsive polymer near-infrared photodetectors with transfer-printed electrode. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1414-1419	7.1	35
87	Organic photovoltaic cells with stable top metal electrodes modified with polyethylenimine. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6202-7	9.5	35
86	A low band gap donor-acceptor copolymer containing fluorene and benzothiadiazole units: synthesis and photovoltaic properties. <i>New Journal of Chemistry</i> , 2011 , 35, 385-393	3.6	35
85	Hierarchical Dual-Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600484	4.6	34
84	Nonreduction-Active Hole-Transporting Layers Enhancing Open-Circuit Voltage and Efficiency of Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33899-33906	9.5	34
83	An Amidine-Type n-Dopant for Solution-Processed Field-Effect Transistors and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1703254	15.6	34
82	Roles of thermally-induced vertical phase segregation and crystallization on the photovoltaic performance of bulk heterojunction inverted polymer solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 3456	35.4	34
81	Writable and patternable organic solar cells and modules inspired by an old Chinese calligraphy tradition. <i>Materials Horizons</i> , 2018 , 5, 123-130	14.4	34
80	Exploring spin-orbital coupling effects on photovoltaic actions in Sn and Pb based perovskite solar cells. <i>Nano Energy</i> , 2017 , 38, 297-303	17.1	33
79	Studies of the optimization of recombination layers for inverted tandem polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 107, 51-55	6.4	33
78	Reversible Chemical Reactivity of Non-Fullerene Acceptors for Organic Solar Cells under Acidic and Basic Environment. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7602-7608	6.1	31
77	Free-Standing Conducting Polymer Films for High-Performance Energy Devices. <i>Angewandte Chemie</i> , 2016 , 128, 991-994	3.6	31
76	Ultra-thin bacterial cellulose/poly(ethylenedioxythiophene) nanofibers paper electrodes for all-solid-state flexible supercapacitors. <i>Electrochimica Acta</i> , 2018 , 271, 624-631	6.7	30
75	A green route to a novel hyperbranched electrolyte interlayer for nonfullerene polymer solar cells with over 11% efficiency. <i>Chemical Communications</i> , 2018 , 54, 563-566	5.8	30
74	54 cm Large-Area Flexible Organic Solar Modules with Efficiency Above 13. <i>Advanced Materials</i> , 2021 , 33, e2103017	24	30
73	PEDOT:PSS top electrode prepared by transfer lamination using plastic wrap as the transfer medium for organic solar cells. <i>Organic Electronics</i> , 2014 , 15, 2593-2598	3.5	27

72	Cruciform oligo(phenylenevinylene) with a bipyridine bridge: synthesis, its rhenium(I) complex and photovoltaic properties. <i>Chemical Communications</i> , 2008 , 3912-4	5.8	27
71	Synthesis and photovoltaic properties of low-bandgap 4,7-dithien-2-yl-2,1,3-benzothiadiazole-based poly(heteroarylenevinylene)s. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 2715-2724	2.5	26
70	Synthesis and photovoltaic properties of poly(p-phenylenevinylene) derivatives containing oxadiazole. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 1003-1012	2.5	26
69	Electrochemical Corrosion of Ag Electrode in the Silver Grid Electrode-Based Flexible Perovskite Solar Cells and the Suppression Method. <i>Solar Rrl</i> , 2018 , 2, 1800118	7.1	25
68	Surface enhanced Raman scattering from a hierarchical substrate of micro/nanostructured silver. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 755-761	2.3	24
67	Influence of Substituent Groups on Chemical Reactivity Kinetics of Nonfullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2307-2312	3.8	23
66	Highly stable Al-doped ZnO by ligand-free synthesis as general thickness-insensitive interlayers for organic solar cells. <i>Science China Chemistry</i> , 2018 , 61, 127-134	7.9	22
65	Flexible and Transparent Organic-Inorganic Hybrid Thermoelectric Modules. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26687-26693	9.5	22
64	Dual functions of interface passivation and n-doping using 2,6-dimethoxypyridine for enhanced reproducibility and performance of planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17632-17639	13	22
63	Enhanced Thermochemical Stability of CHNHPbI Perovskite Films on Zinc Oxides via New Precursors and Surface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26045-26051	9.5	22
62	A ring-locking strategy to enhance the chemical and photochemical stability of ADA-type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1080-1088	13	22
61	An alcohol-dispersed conducting polymer complex for fully printable organic solar cells with improved stability. <i>Nature Energy</i> ,	62.3	22
60	Inverted Tandem Polymer Solar Cells with Polyethylenimine-Modified MoOX/Al ₂ O ₃ :ZnO Nanolaminate as the Charge Recombination Layers. <i>Advanced Energy Materials</i> , 2014 , 4, 1400048	21.8	21
59	Laminated Free Standing PEDOT:PSS Electrode for Solution Processed Integrated Photocapacitors via Hydrogen-Bond Interaction. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700704	4.6	20
58	Regulation of the Polar Groups in n-Type Conjugated Polyelectrolytes as Electron Transfer Layer for Inverted Polymer Solar Cells. <i>Macromolecules</i> , 2018 , 51, 8197-8204	5.5	20
57	Inverted polymer solar cells with amorphous indium zinc oxide as the electron-collecting electrode. <i>Optics Express</i> , 2010 , 18 Suppl 4, A506-12	3.3	18
56	Flexible Perovskite Solar Cells via Surface-Confined Silver Nanoparticles on Transparent Polyimide Substrates. <i>Polymers</i> , 2019 , 11,	4.5	17
55	Vacuum-free and metal electrode-free organic tandem solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 053306	3.4	16

54	Effect of alkyl chain length on the photovoltaic performance of oligothiophene-based small molecules. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 336-346	6.4	16
53	Efficient nonfullerene organic solar cells with active layers fabricated by water transfer printing. <i>Journal of Energy Chemistry</i> , 2019 , 37, 220-224	12	15
52	High-performance all-small-molecule organic solar cells without interlayers. <i>Energy and Environmental Science</i> , 2021 , 14, 3174-3183	35.4	15
51	Spectrally dependent photocurrent generation in aggregated MEH-PPV:PPDI donor-acceptor blends. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 1842-1848	6.4	14
50	Efficient Top-Illuminated Organic-Quantum Dots Hybrid Tandem Solar Cells with Complementary Absorption. <i>ACS Photonics</i> , 2017 , 4, 1172-1177	6.3	13
49	Colorful flexible polymer tandem solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7884-7889	7.1	13
48	Fluorine-induced self-doping and spatial conformation in alcohol-soluble interlayers for highly-efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 423-433	13	13
47	Exploring the Chemical Interaction between Diiodooctane and PEDOT-PSS Electrode for Metal Electrode-Free Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3800-3805	9.5	12
46	Significant Enhancement of Illumination Stability of Nonfullerene Organic Solar Cells via an Aqueous Polyethylenimine Modification. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2607-2614	6.4	12
45	Recent progress in organic solar cells (Part II device engineering). <i>Science China Chemistry</i> ,	7.9	12
44	A two-step method combining electrodeposition and spin-coating for solar cell processing. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 1051-1056	2.6	11
43	Sn ^{II} /Sn ^{IV} interaction improving electron collection in non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12218-12223	7.1	11
42	High-Performance Organic Semiconducting Polymers by a Resonance-Assisted Hydrogen Bonding Approach. <i>Chemistry of Materials</i> , 2021 , 33, 580-588	9.6	11
41	Inverted organic solar cells with polymer-modified fluorine-doped tin oxide as the electron-collecting electrode. <i>Thin Solid Films</i> , 2014 , 554, 54-57	2.2	10
40	Incorporation of Hydrogen Molybdenum Bronze in Solution-Processed Interconnecting Layer for Efficient Nonfullerene Tandem Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900480	7.1	10
39	Large-Area Organic Solar Modules with Efficiency Over 14%. <i>Advanced Functional Materials</i> , 2110209	15.6	10
38	Morphological optimization by rational matching of the donor and acceptor boosts the efficiency of alkylsilyl fused ring-based polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4847-4854	13	9
37	New 4,7-dithienebenzothiadiazole derivatives with cyano-vinylene bonds: Synthesis, photophysics and photovoltaics. <i>Synthetic Metals</i> , 2009 , 159, 1471-1477	3.6	9

36	Emerging Chemistry in Enhancing the Chemical and Photochemical Stabilities of Fused-Ring Electron Acceptors in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2106735	15.6	9
35	Patching defects in the active layer of large-area organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5817-5824	13	8
34	Suppressing generation of iodine impurity via an amidine additive in perovskite solar cells. <i>Chemical Communications</i> , 2018, 54, 4704-4707	5.8	8
33	Stacking Sequence and Acceptor Dependence of Photocurrent Spectra and Photovoltage in Organic Two-Junction Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24027-24034	9.5	8
32	Core-expanded naphthalenediimide derivatives as non-fullerene electron transport materials for inverted perovskite solar cells. <i>Organic Electronics</i> , 2018, 61, 113-118	3.5	7
31	Meters-long, sewable, wearable conductive polymer wires for thermoelectric applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1571-1576	7.1	6
30	Morphology and properties of poly(2-methoxy-5-(2-ethyl-hexyloxy)-p-phenylenevinylene) (MEH-PPV): N,N'-bis(1-ethylpropyl)-3,4:9,10-perylene bis(tetracarboxyl diimide) (EP-PTC) based solar cells. <i>Current Applied Physics</i> , 2009, 9, 950-955	2.6	6
29	Minimizing the Thickness of Ethoxylated Polyethylenimine to Produce Stable Low-Work Function Interface for Nonfullerene Organic Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000094	1.6	6
28	Self-assembly monolayers manipulate the power conversion processes in organic photovoltaics. <i>Journal of Power Sources</i> , 2019, 409, 66-75	8.9	6
27	Enhancing Efficiency and Durability of Inverted Perovskite Solar Cells with Phenol/Unsaturated Carbon-Carbon Double Bond Dual-Functionalized Poly(3,4-ethylenedioxythiophene) Hole Extraction Layer. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 961-968	8.3	6
26	Efficient Electrical Doping of Organic Semiconductors Via an Orthogonal Liquid-Liquid Contact. <i>Advanced Functional Materials</i> , 2021, 31, 2009660	15.6	6
25	MoOx/Au Schottky-Gated Field-Effect Transistors and Their Fast Inverters. <i>Advanced Electronic Materials</i> , 2019, 5, 1900086	6.4	5
24	N-doping of fullerene using 1,3,5-trimethylhexahydro-1,3,5-triazine as an electron transport layer for nonfullerene organic solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1984-1990	5.8	5
23	Ultrathin and Efficient Organic Photovoltaics with Enhanced Air Stability by Suppression of Zinc Element Diffusion.. <i>Advanced Science</i> , 2022, e2105288	13.6	5
22	10 cm ² nonfullerene solar cells with efficiency over 10% using HxMoO ₃ -assisted growth of silver electrodes with a low threshold thickness of 4 nm. <i>Journal of Materials Chemistry A</i> , 2020, 8, 69-76	13	5
21	Engineering an interfacial interaction to assist transfer printing of active layers for curved organic solar cells. <i>Organic Electronics</i> , 2021, 93, 106162	3.5	5
20	High fill factor over 82% enabled by a biguanide doping electron transporting layer in planar perovskite solar cells. <i>Frontiers of Optoelectronics</i> , 2018, 11, 360-366	2.8	5
19	Indium tin oxide modified by titanium dioxide nanoparticles dispersed in poly(N-vinylpyrrolidone) for use as an electron-collecting layer in organic solar cells with an inverted structure. <i>Journal of Materials Research</i> , 2013, 28, 535-540	2.5	4

18	Low-Work-Function PEDOT Formula as a Stable Interlayer and Cathode for Organic Solar Cells. <i>Advanced Functional Materials</i> , 2107250	15.6	4
17	A metal chelation strategy suppressing chemical reduction between PEDOT and polyethylenimine for a printable low-work function electrode in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3918-3924	13	4
16	Water Transfer Printing of Multilayered Near-Infrared Organic Photodetectors. <i>Advanced Optical Materials</i> , 2101837	8.1	3
15	Bathocuproine as a cathode interlayer for nonfullerene organic solar cells with efficiency over 17%. <i>Journal of Materials Chemistry A</i> ,	13	3
14	Synthesis, photophysical and electroluminescent properties of donor-acceptor-donor molecules based on β -innamoyl cyclic ketene dithioacetals. <i>Synthetic Metals</i> , 2009 , 159, 153-157	3.6	2
13	Marangoni Force Assisted Spreading and Printing of Nanometer-Thick Polymer Films for Ubiquitous Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100181	6.8	2
12	Surface doping of non-fullerene photoactive layer by soluble polyoxometalate for printable organic solar cells. <i>Chemical Communications</i> , 2021 , 57, 2689-2692	5.8	2
11	Photostable squaraine dimers for organic solar cells with a high open circuit voltage exceeding 1.0V. <i>Dyes and Pigments</i> , 2021 , 194, 109633	4.6	2
10	On the interface reactions and stability of nonfullerene organic solar cells. <i>Chemical Science</i> ,	9.4	2
9	Effect of Wetting Surfactants on the Work Function of PEDOT:PSS for Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3766-3772	6.1	2
8	Polymer Solar Cells. <i>Green Chemistry and Sustainable Technology</i> , 2018 , 45-108	1.1	1
7	Patterning of PEDOT-PSS via nanosecond laser ablation and acid treatment for organic solar cells. <i>Organic Electronics</i> , 2020 , 87, 105954	3.5	1
6	Solution-processed solar-charging power units made of organic photovoltaic modules and asymmetric super-capacitors. <i>Applied Physics Letters</i> , 2021 , 118, 203902	3.4	1
5	Electrochemical Corrosion of Ag Electrode in the Silver Grid Electrode-Based Flexible Perovskite Solar Cells and the Suppression Method (Solar RRL 90018). <i>Solar Rrl</i> , 2018 , 2, 1870207	7.1	1
4	Flexible Organic Solar Cells 2018 , 305-337		0
3	Conductive Polymers for Flexible Thermoelectric Systems 2022 , 41-79		0
2	Producing p-Doped Surface for Hole Transporting Layer-free Nonfullerene Organic Solar Cells.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200201	4.8	0
1	A New Diazabenzok[fluoranthene]-based D-A Conjugated Polymer Donor for Efficient Organic Solar Cells.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200276	4.8	0

