

Fengling Zhang

List of Publications by Year in descending order

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184
papers

17,352
citations

11639

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186
all docs

186
docs citations

186
times ranked

12390
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast charge separation in a non-fullerene organic solar cell with a small driving force. <i>Nature Energy</i> , 2016, 1, .	19.8	1,167
2	Consensus stability testing protocols for organic photovoltaic materials and devices. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1253-1267.	3.0	812
3	High-Performance Polymer Solar Cells of an Alternating Polyfluorene Copolymer and a Fullerene Derivative. <i>Advanced Materials</i> , 2003, 15, 988-991.	11.1	712
4	Design rules for minimizing voltage losses in high-efficiency organic solar cells. <i>Nature Materials</i> , 2018, 17, 703-709.	13.3	701
5	High-efficiency small-molecule ternary solar cells with a hierarchical morphology enabled by synergizing fullerene and non-fullerene acceptors. <i>Nature Energy</i> , 2018, 3, 952-959.	19.8	558
6	Polymer Photovoltaic Cells with Conducting Polymer Anodes. <i>Advanced Materials</i> , 2002, 14, 662-665.	11.1	455
7	Influence of Solvent Mixing on the Morphology and Performance of Solar Cells Based on Polyfluorene Copolymer/Fullerene Blends. <i>Advanced Functional Materials</i> , 2006, 16, 667-674.	7.8	439
8	An Easily Synthesized Blue Polymer for High-Performance Polymer Solar Cells. <i>Advanced Materials</i> , 2010, 22, 5240-5244.	11.1	435
9	A Planar Copolymer for High Efficiency Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 14612-14613.	6.6	407
10	An Easily Accessible Isoindigo-Based Polymer for High-Performance Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 14244-14247.	6.6	363
11	Electroluminescence from Charge Transfer States in Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 11819-11824.	6.6	338
12	Low-Bandgap Alternating Fluorene Copolymer/Methanofullerene Heterojunctions in Efficient Near-Infrared Polymer Solar Cells. <i>Advanced Materials</i> , 2006, 18, 2169-2173.	11.1	320
13	A New Donor-acceptor Donor Polyfluorene Copolymer with Balanced Electron and Hole Mobility. <i>Advanced Functional Materials</i> , 2007, 17, 3836-3842.	7.8	280
14	Enhancing the Photovoltage of Polymer Solar Cells by Using a Modified Cathode. <i>Advanced Materials</i> , 2007, 19, 1835-1838.	11.1	251
15	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2001160.	11.1	246
16	Alternating Polyfluorenes Collect Solar Light in Polymer Photovoltaics. <i>Accounts of Chemical Research</i> , 2009, 42, 1731-1739.	7.6	237
17	Polymer Solar Cells Based on a Low-Bandgap Fluorene Copolymer and a Fullerene Derivative with Photocurrent Extended to 850 nm. <i>Advanced Functional Materials</i> , 2005, 15, 745-750.	7.8	227
18	Infrared photocurrent spectral response from plastic solar cell with low-band-gap polyfluorene and fullerene derivative. <i>Applied Physics Letters</i> , 2004, 85, 5081-5083.	1.5	206

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19	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1968-1977.	3.0	205
20	High-Performance Ultrathin Flexible Solid-State Supercapacitors Based on Solution Processable Mo _{1.33} C MXene and PEDOT:PSS. <i>Advanced Functional Materials</i> , 2018, 28, 1703808.	7.8	196
21	Quantification of Quantum Efficiency and Energy Losses in Low Bandgap Polymer:Fullerene Solar Cells with High Open-Circuit Voltage. <i>Advanced Functional Materials</i> , 2012, 22, 3480-3490.	7.8	190
22	Low bandgap alternating polyfluorene copolymers in plastic photodiodes and solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 31-35.	1.1	174
23	Enhanced Performance of Inverted Polymer Solar Cells by Using Poly(ethylene oxide)-Modified ZnO as an Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 380-385.	4.0	162
24	Ethanedithiol Treatment of Solution-Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2015, 5, 1401606.	10.2	157
25	Synthesis and characterization of benzodithiophene-isoindigo polymers for solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 2306-2314.	6.7	156
26	A Conjugated Polymer for Near Infrared Optoelectronic Applications. <i>Advanced Materials</i> , 2007, 19, 3308-3311.	11.1	154
27	Soluble Polythiophenes with Pendant Fullerene Groups as Double Cable Materials for Photodiodes. <i>Advanced Materials</i> , 2001, 13, 1871.	11.1	153
28	Inverted and transparent polymer solar cells prepared with vacuum-free processing. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 497-500.	3.0	148
29	Geminate Charge Recombination in Alternating Polyfluorene Copolymer/Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2007, 129, 8466-8472.	6.6	146
30	Investigation on polymer anode design for flexible polymer solar cells. <i>Applied Physics Letters</i> , 2008, 92, 233308.	1.5	142
31	High photovoltage achieved in low band gap polymer solar cells by adjusting energy levels of a polymer with the LUMOs of fullerene derivatives. <i>Journal of Materials Chemistry</i> , 2008, 18, 5468.	6.7	137
32	Benzothiadiazole-Based Linear and Star Molecules: Design, Synthesis, and Their Application in Bulk Heterojunction Organic Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 5327-5334.	3.2	137
33	An isoindigo-based low band gap polymer for efficient polymer solar cells with high photo-voltage. <i>Chemical Communications</i> , 2011, 47, 4908.	2.2	134
34	A Vertically Integrated Solar-Powered Electrochromic Window for Energy Efficient Buildings. <i>Advanced Materials</i> , 2014, 26, 4895-4900.	11.1	134
35	Geminate Charge Recombination in Polymer/Fullerene Bulk Heterojunction Films and Implications for Solar Cell Function. <i>Journal of the American Chemical Society</i> , 2010, 132, 12440-12451.	6.6	130
36	Influences of Surface Roughness of ZnO Electron Transport Layer on the Photovoltaic Performance of Organic Inverted Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24462-24468.	1.5	126

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37	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. <i>Nano Energy</i> , 2016, 27, 430-438.	8.2	125
38	Conducting Polymer Nanowires and Nanodots Made with Soft Lithography. <i>Nano Letters</i> , 2002, 2, 1373-1377.	4.5	124
39	Folded reflective tandem polymer solar cell doubles efficiency. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	124
40	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. <i>Nano Energy</i> , 2019, 60, 734-742.	8.2	124
41	On the Dissociation Efficiency of Charge Transfer Excitons and Frenkel Excitons in Organic Solar Cells: A Luminescence Quenching Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21824-21832.	1.5	122
42	Side-Chain Architectures of 2,7-Carbazole and Quinoxaline-Based Polymers for Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2011, 44, 2067-2073.	2.2	119
43	“Double-Cable” Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 18647-18656.	6.6	119
44	Synthesis, Characterization, and Devices of a Series of Alternating Copolymers for Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 3491-3502.	3.2	118
45	In Situ Formation of MoO ₃ in PEDOT:PSS Matrix: A Facile Way to Produce a Smooth and Less Hygroscopic Hole Transport Layer for Highly Stable Polymer Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 349-355.	10.2	118
46	Influence of buffer layers on the performance of polymer solar cells. <i>Applied Physics Letters</i> , 2004, 84, 3906-3908.	1.5	113
47	Low-Temperature Combustion-Synthesized Nickel Oxide Thin Films as Hole-Transport Interlayers for Solution-Processed Optoelectronic Devices. <i>Advanced Energy Materials</i> , 2014, 4, 1301460.	10.2	110
48	Semi-Transparent Tandem Organic Solar Cells with 90% Internal Quantum Efficiency. <i>Advanced Energy Materials</i> , 2012, 2, 1467-1476.	10.2	109
49	Structure-property relationships of oligothiophene-isoindigo polymers for efficient bulk-heterojunction solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 361-369.	15.6	108
50	Photoelectron Spectroscopy of the Contact between the Cathode and the Active Layers in Plastic Solar Cells: The Role of LiF. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3695-3701.	0.8	106
51	Light-Up Lipid Droplets Dynamic Behaviors Using a Red-Emitting Fluorogenic Probe. <i>Analytical Chemistry</i> , 2020, 92, 3613-3619.	3.2	104
52	Polymer Photovoltaics with Alternating Copolymer/Fullerene Blends and Novel Device Architectures. <i>Advanced Materials</i> , 2010, 22, E100-16.	11.1	100
53	9-Alkylidene-9 <i>H</i> -Fluorene-Containing Polymer for High-Efficiency Polymer Solar Cells. <i>Macromolecules</i> , 2011, 44, 7617-7624.	2.2	99
54	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. <i>Advanced Energy Materials</i> , 2018, 8, 1701942.	10.2	99

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55	Flexible double-cross-linked cellulose-based hydrogel and aerogel membrane for supercapacitor separator. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24468-24478.	5.2	98
56	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , 2021, 12, 4627.	5.8	98
57	Solution-Processable Organic Molecule with Triphenylamine Core and Two Benzothiadiazole-Thiophene Arms for Photovoltaic Application. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3701-3706.	1.5	97
58	Design, Synthesis and Properties of Low Band Gap Polyfluorenes for Photovoltaic Devices. <i>Synthetic Metals</i> , 2005, 154, 53-56.	2.1	90
59	Tailoring side chains of low band gap polymers for high efficiency polymer solar cells. <i>Polymer</i> , 2010, 51, 3031-3038.	1.8	90
60	New low band gap alternating polyfluorene copolymer-based photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1010-1018.	3.0	86
61	Solution-processed bulk heterojunction organic solar cells based on an oligothiophene derivative. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	86
62	Conformational Disorder Enhances Solubility and Photovoltaic Performance of a Thiophene-Quinoxaline Copolymer. <i>Advanced Energy Materials</i> , 2013, 3, 806-814.	10.2	86
63	A New Fullerene-Free Bulk-Heterojunction System for Efficient High-Voltage and High-Fill Factor Solution-Processed Organic Photovoltaics. <i>Advanced Materials</i> , 2015, 27, 1900-1907.	11.1	84
64	Small Band Gap Polymers Synthesized via a Modified Nitration of 4,7-Dibromo-2,1,3-benzothiadiazole. <i>Organic Letters</i> , 2010, 12, 4470-4473.	2.4	79
65	A flexible semitransparent photovoltaic supercapacitor based on water-processed MXene electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5467-5475.	5.2	79
66	Development of polymer-fullerene solar cells. <i>National Science Review</i> , 2016, 3, 222-239.	4.6	78
67	A polymer photodiode using vapour-phase polymerized PEDOT as an anode. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 133-141.	3.0	76
68	Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. <i>Advanced Functional Materials</i> , 2013, 23, 4262-4268.	7.8	76
69	A Free-Standing High-Output Power Density Thermoelectric Device Based on Structure-Ordered PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2018, 4, 1700496.	2.6	73
70	Observation of a Charge Transfer State in Low-Bandgap Polymer/Fullerene Blend Systems by Photoluminescence and Electroluminescence Studies. <i>Advanced Functional Materials</i> , 2009, 19, 3293-3299.	7.8	71
71	Structure-property relationships of small bandgap conjugated polymers for solar cells. <i>Dalton Transactions</i> , 2009, , 10032.	1.6	71
72	Revealing the Critical Role of the HOMO Alignment on Maximizing Current Extraction and Suppressing Energy Loss in Organic Solar Cells. <i>IScience</i> , 2019, 19, 883-893.	1.9	68

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73	Multifolded polymer solar cells on flexible substrates. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	67
74	An alternating Dâ€A1â€Dâ€A2 copolymer containing two electron-deficient moieties for efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11141.	5.2	66
75	A Facile Method to Enhance Photovoltaic Performance of Benzodithiopheneâ€isoindigo Polymers by Inserting Bithiophene Spacer. <i>Advanced Energy Materials</i> , 2014, 4, 1301455.	10.2	66
76	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. <i>Energy and Environmental Science</i> , 2022, 15, 855-865.	15.6	62
77	Effect of cathode buffer layer on the stability of polymer bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1831-1834.	3.0	60
78	Charge formation and transport in bulk-heterojunction solar cells based on alternating polyfluorene copolymers blended with fullerenes. <i>Organic Electronics</i> , 2006, 7, 235-242.	1.4	59
79	Integrated Design of Organic Hole Transport Materials for Efficient Solidâ€State Dyeâ€Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401185.	10.2	59
80	The Effect of additive on performance and shelf-stability of HSX-1/PCBM photovoltaic devices. <i>Organic Electronics</i> , 2011, 12, 1544-1551.	1.4	58
81	Mobility and fill factor correlation in geminate recombination limited solar cells. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	58
82	Low bandgap polymers synthesized by FeCl ₃ oxidative polymerization. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1275-1281.	3.0	56
83	Polyfluorene copolymer based bulk heterojunction solar cells. <i>Thin Solid Films</i> , 2004, 449, 152-157.	0.8	54
84	High Thermoelectric Performance in nâ€Type Perylene Bisimide Induced by the Soret Effect. <i>Advanced Materials</i> , 2020, 32, e2002752.	11.1	53
85	Stoichiometry, mobility, and performance in bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2007, 91, 071108.	1.5	52
86	Device Performance of APFOâ€3/PCBM Solar Cells with Controlled Morphology. <i>Advanced Materials</i> , 2009, 21, 4398-4403.	11.1	52
87	Limitations and Perspectives on Tripletâ€Materialâ€Based Organic Photovoltaic Devices. <i>Advanced Materials</i> , 2019, 31, e1900690.	11.1	50
88	Lateral Phase Separation Gradients in Spinâ€Coated Thin Films of Highâ€Performance Polymer:Fullerene Photovoltaic Blends. <i>Advanced Functional Materials</i> , 2011, 21, 3169-3175.	7.8	49
89	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.	5.2	49
90	Polymer solar cells based on MEH-PPV and PCBM. <i>Synthetic Metals</i> , 2003, 137, 1401-1402.	2.1	47

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91	Printable Highly Conductive Conjugated Polymer Sensitized ZnO NCs as Cathode Interfacial Layer for Efficient Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8237-8245.	4.0	46
92	Nanomorphology of Bulk Heterojunction Organic Solar Cells in 2D and 3D Correlated to Photovoltaic Performance. <i>Macromolecules</i> , 2009, 42, 4646-4650.	2.2	45
93	Enhance performance of organic solar cells based on an isoindigo-based copolymer by balancing absorption and miscibility of electron acceptor. <i>Applied Physics Letters</i> , 2011, 99, 143302.	1.5	45
94	Integration of amyloid nanowires in organic solar cells. <i>Applied Physics Letters</i> , 2008, 93, 023307.	1.5	44
95	Optimizing ZnO nanoparticle surface for bulk heterojunction hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 118, 43-47.	3.0	44
96	Suppressing Co-crystallization of Halogenated Non-Fullerene Acceptors for Thermally Stable Ternary Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2005462.	7.8	44
97	Insights into the working mechanism of cathode interlayers in polymer solar cells via [(C ₈ H ₁₇) ₄ N] ₄ [SiW ₁₂ O ₄₀]. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19189-19196.	5.2	42
98	Synthesis and properties of alternating polyfluorene copolymers with redshifted absorption for use in solar cells. <i>Synthetic Metals</i> , 2003, 135-136, 137-138.	2.1	41
99	Improvements of fill factor in solar cells based on blends of polyfluorene copolymers as electron donors. <i>Thin Solid Films</i> , 2007, 515, 3126-3131.	0.8	41
100	Efficient Charge Transport Enables High Efficiency in Dilute Donor Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5039-5044.	2.1	41
101	Synthesis of Unstable Colloidal Inorganic Nanocrystals through the Introduction of a Protecting Ligand. <i>Nano Letters</i> , 2014, 14, 3117-3123.	4.5	40
102	Recent progress in thin film organic photodiodes. <i>Synthetic Metals</i> , 2001, 121, 1525-1528.	2.1	38
103	Photodiodes and solar cells based on the n-type polymer poly(pyridopyrazine vinylene) as electron acceptor. <i>Synthetic Metals</i> , 2003, 138, 555-560.	2.1	38
104	Molecular and Energetic Order Dominate the Photocurrent Generation Process in Organic Solar Cells with Small Energetic Offsets. <i>ACS Energy Letters</i> , 2020, 5, 589-596.	8.8	36
105	Enhanced performance and stability in polymer photovoltaic cells using lithium benzoate as cathode interfacial layer. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1243-1247.	3.0	35
106	Charge Carrier Dynamics in Alternating Polyfluorene Copolymer:Fullerene Blends Probed by Terahertz Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6558-6563.	1.5	34
107	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. <i>Nano Energy</i> , 2020, 75, 105032.	8.2	34
108	Ultrafast light-induced charge pair formation dynamics in poly[3-(2-methoxy-5-octylphenyl)thiophene]. <i>Physical Review B</i> , 2004, 70, .	1.1	32

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109	Ultrafast conductivity in a low-band-gap polyphenylene and fullerene blend studied by terahertz spectroscopy. <i>Physical Review B</i> , 2009, 79, .	1.1	32
110	Poly(4,8-bis(2-ethylhexyloxy)benzo[1,2-b:4,5-b']dithiophene vinylene): Synthesis, optical and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1822-1829.	2.5	31
111	Fast Monolayer Adsorption and Slow Energy Transfer in CdSe Quantum Dot Sensitized ZnO Nanowires. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5919-5925.	1.1	31
112	Molecular orbital energy level modulation through incorporation of selenium and fluorine into conjugated polymers for organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13422.	5.2	31
113	Modulating molecular aggregation by facile heteroatom substitution of diketopyrrolopyrrole based small molecules for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24349-24357.	5.2	31
114	Performance limitations in thieno[3,4-c]pyrrole-4,6-dione-based polymer:ITIC solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23990-23998.	1.3	29
115	Exciton dynamics in alternating polyfluorene/fullerene blends. <i>Chemical Physics</i> , 2008, 350, 14-22.	0.9	28
116	Alternating copolymers of fluorene and donor-acceptor-donor segments designed for miscibility in bulk heterojunction photovoltaics. <i>Journal of Materials Chemistry</i> , 2009, 19, 5359.	6.7	28
117	Charge Transfer Dynamics and Device Performance of Environmentally Friendly Processed Nonfullerene Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 4776-4785.	2.5	28
118	Light-induced degradation of fullerenes in organic solar cells: a case study on TQ1:PC ₇₁ BM. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11884-11889.	5.2	27
119	Roll-to-Roll Slot-Die-Printed Polymer Solar Cells by Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22485-22494.	4.0	27
120	Laminated Free Standing PEDOT:PSS Electrode for Solution Processed Integrated Photocapacitors via Hydrogen-Bond Interaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700704.	1.9	26
121	Electric Field Facilitating Hole Transfer in Non-Fullerene Organic Solar Cells with a Negative HOMO Offset. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15132-15139.	1.5	26
122	Synthesis and electroluminescent properties of heterocycle-containing poly(p-phenylene vinylene) derivatives. <i>Synthetic Metals</i> , 1999, 99, 249-252.	2.1	25
123	Inverted indium-tin-oxide-free cone-shaped polymer solar cells for light trapping. <i>Applied Physics Letters</i> , 2012, 100, 213901.	1.5	25
124	Dual Function of UV/Ozone Plasma-Treated Polymer in Polymer/Metal Hybrid Electrodes and Semitransparent Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44656-44666.	4.0	25
125	Mo _{1.33} C MXene-Assisted PEDOT:PSS Hole Transport Layer for High-Performance Bulk-Heterojunction Polymer Solar Cells. <i>ACS Applied Electronic Materials</i> , 2020, 2, 163-169.	2.0	25
126	Fast switching polymeric electrochromics with facile processed water dispersed nanoparticles. <i>Nano Energy</i> , 2018, 47, 123-129.	8.2	23

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127	Enhanced performance and stability of inverted planar perovskite solar cells by incorporating 1,6-diaminohexane dihydrochloride additive. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 140-148.	3.0	23
128	Bipolar transport observed through extraction currents on organic photovoltaic blend materials. <i>Applied Physics Letters</i> , 2006, 89, 142111.	1.5	22
129	Solution-processed bulk-heterojunction organic solar cells employing Ir complexes as electron donors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12390.	5.2	22
130	Roles of Acceptor Guests in Tuning the Organic Solar Cell Property Based on an Efficient Binary Material System with a Nearly Zero Hole-Transfer Driving Force. <i>Chemistry of Materials</i> , 2020, 32, 5182-5191.	3.2	22
131	Infrared ellipsometry characterization of conducting thin organic films. <i>Thin Solid Films</i> , 2004, 455-456, 295-300.	0.8	21
132	Tuning Work Function of Noble Metals As Promising Cathodes in Organic Electronic Devices. <i>Chemistry of Materials</i> , 2009, 21, 2798-2802.	3.2	21
133	The trade-off between electrochromic stability and contrast of a thiophene-Quinoxaline copolymer. <i>Electrochimica Acta</i> , 2017, 253, 530-535.	2.6	21
134	Effect of Side Groups on the Photovoltaic Performance Based on Porphyrin-Perylene Bisimide Electron Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32454-32461.	4.0	21
135	A Comparative Study on Hole Transfer Inversely Correlated with Driving Force in Two Non-Fullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4110-4116.	2.1	21
136	A diketopyrrolopyrrole-based macrocyclic conjugated molecule for organic electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3802-3810.	2.7	21
137	In Situ Optical Studies on Morphology Formation in Organic Photovoltaic Blends. <i>Small Methods</i> , 2021, 5, e2100585.	4.6	21
138	Carrier redistribution in organic/inorganic (poly(3,4-ethylenedioxy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (thiophene/poly(styrene) Applied Physics Letters, 2004, 84, 1311-1313.	1.5	20
139	One-Step Blade-Coated Highly Efficient Nonfullerene Organic Solar Cells with a Self-Assembled Interfacial Layer Enabled by Solvent Vapor Annealing. <i>Solar Rrl</i> , 2019, 3, 1900179.	3.1	19
140	Flexible Solid-State Asymmetric Supercapacitors with Enhanced Performance Enabled by Free-Standing MXene-Biopolymer Nanocomposites and Hierarchical Graphene-RuO ₂ Paper Electrodes. <i>Batteries and Supercaps</i> , 2020, 3, 604-610.	2.4	19
141	Solution-Processed Highly Efficient Semitransparent Organic Solar Cells with Low Donor Contents. <i>ACS Applied Energy Materials</i> , 2021, 4, 14335-14341.	2.5	19
142	Rhenium oxide as the interfacial buffer layer for polymer photovoltaic cells. <i>Optoelectronics Letters</i> , 2010, 6, 176-178.	0.4	18
143	Synthesis and characterization of three small band gap conjugated polymers for solar cell applications. <i>Polymer Chemistry</i> , 2010, 1, 1272.	1.9	18
144	Synthesis and photovoltaic behaviors of benzothiadiazole- and triphenylamine-based alternating copolymers. <i>Polymer</i> , 2012, 53, 324-332.	1.8	17

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145	Manipulate Micrometer Surface and Nanometer Bulk Phase Separation Structures in the Active Layer of Organic Solar Cells via Synergy of Ultrasonic and High-Pressure Gas Spraying. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10777-10784.	4.0	17
146	Bipolar Charge Transport in Fullerene Molecules in a Bilayer and Blend of Polyfluorene Copolymer and Fullerene. <i>Advanced Materials</i> , 2010, 22, 1008-1011.	11.1	16
147	Voltage-dependent recombination region movement in organic light-emitting diodes (OLEDs) based on a europium complex-doped polymer. <i>Journal of Luminescence</i> , 2000, 87-89, 1149-1151.	1.5	15
148	Efficient polymer bulk heterojunction solar cells with cesium acetate as the cathode interfacial layer. <i>Renewable Energy</i> , 2013, 50, 565-569.	4.3	14
149	Individual nanostructure optimization in donor and acceptor phases to achieve efficient quaternary organic solar cells. <i>Nano Energy</i> , 2019, 66, 104176.	8.2	14
150	Nonfullerene acceptors from thieno[3,2-b]thiophene-fused naphthalene donor core with six-member-ring connection for efficient organic solar cells. <i>Dyes and Pigments</i> , 2021, 185, 108892.	2.0	14
151	Encapsulation Effect on Performance and Stability of Organic Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000293.	1.9	13
152	A triphenylamine-based four-armed molecule for solution-processed organic solar cells with high photo-voltage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4937.	5.2	12
153	Enhanced Performance and Stability in Polymer Photovoltaic Cells Using Ultraviolet-Treated PEDOT:PSS. <i>Chinese Physics Letters</i> , 2013, 30, 077201.	1.3	12
154	Macromolecular nanoelectronics. <i>Current Applied Physics</i> , 2002, 2, 27-31.	1.1	11
155	Black Polymers in Bulk-Heterojunction Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1565-1572.	1.9	11
156	Investigation on voltage loss in organic triplet photovoltaic devices based on Ir complexes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15049-15056.	2.7	11
157	MXene-based multifunctional smart fibers for wearable and portable electronics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12544-12550.	5.2	11
158	Plasmon-enhanced organic solar cells with solution-processed three-dimensional Ag nanosheets. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 227-232.	3.0	10
159	Mixed solvents for reproducible photovoltaic bulk heterojunctions. <i>Journal of Photonics for Energy</i> , 2011, 1, 011122.	0.8	9
160	Alternating Copolymers and Alternative Device Geometries for Organic Photovoltaics. <i>Ambio</i> , 2012, 41, 138-142.	2.8	9
161	Conjugated polymers with polar side chains in bulk heterojunction solar cell devices. <i>Polymer International</i> , 2014, 63, 22-30.	1.6	9
162	Electrophoretic deposited oxide thin films as charge transporting interlayers for solution-processed optoelectronic devices: the case of ZnO nanocrystals. <i>RSC Advances</i> , 2015, 5, 8216-8222.	1.7	9

#	ARTICLE	IF	CITATIONS
163	Theoretical models and experimental results on the temperature dependence of polyfluorene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1607-1614.	3.0	8
164	Surface states of ZnO nanoparticles effect on the performance of inverted-organic solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 053106.	0.8	8
165	An alternating copolymer of fluorene donor and quinoxaline acceptor versus a terpolymer consisting of fluorene, quinoxaline and benzothiadiazole building units: synthesis and characterization. <i>Polymer Bulletin</i> , 2016, 73, 1167-1183.	1.7	8
166	Fast Field-Insensitive Charge Extraction Enables High Fill Factors in Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38460-38469.	4.0	8
167	Solution-processed solar-charging power units made of organic photovoltaic modules and asymmetric super-capacitors. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	8
168	Submicrometre bridge electrode arrays for light emitting polymer diodes and photodiodes. <i>Nanotechnology</i> , 2002, 13, 205-211.	1.3	6
169	Influence of solvents and substrates on the morphology and the performance of low-bandgap polyfluorene: PCBM photovoltaic devices. , 2006, 6192, 339.		5
170	The dispersion of BEDÅ° in unintentional doped GaN crystals. <i>Solid State Communications</i> , 1986, 59, 599-602.	0.9	3
171	Blue light-emitting diodes based on novel polyfluorene copolymers. <i>Journal of Luminescence</i> , 2007, 122-123, 610-613.	1.5	3
172	Efficiency Enhancement of MEH-PPV:PCBM Solar Cells by Addition of Ditetertutyl Peroxide as an Additive. <i>Chinese Physics Letters</i> , 2013, 30, 017202.	1.3	3
173	Random polyfluorene <i>co</i> -polymers designed for a better optical absorption coverage of the visible region of the electromagnetic spectrum. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2014, 28, 121.	0.5	3
174	Tailorable Membraneâ€Penetrating Nanoplatform for Highly Efficient Organelleâ€Specific Localization. <i>Small</i> , 2021, 17, 2101440.	5.2	2
175	Electron injection behavior from the magnesium electrode into a family of electron-transporting amorphous molecular materials, a,ï%-bis(dimesitylboryl)oligothiophene. , 2009, , .		1
176	Characterization and properties of a new amorphous small-molecule material containing both donor and acceptor moieties for photovoltaic application. <i>Chemical Research in Chinese Universities</i> , 2013, 29, 1193-1198.	1.3	1
177	Thin Films: Ethanedithiol Treatment of Solution-Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics (Adv. Energy Mater. 5/2015). <i>Advanced Energy Materials</i> , 2015, 5, n/a-n/a.	10.2	1
178	Polymer Solar Cells. <i>Green Chemistry and Sustainable Technology</i> , 2018, , 45-108.	0.4	1
179	Organic Polymer Electronics â€“ A Special Issue in Honor of Prof. Olle InganÃs. <i>Advanced Materials</i> , 2019, 31, 1901940.	11.1	1
180	Thermoelectric Materials: High Thermoelectric Performance in nâ€Type Perylene Bisimide Induced by the Soret Effect (Adv. Mater. 45/2020). <i>Advanced Materials</i> , 2020, 32, 2070335.	11.1	1

#	ARTICLE	IF	CITATIONS
181	Using dispersion theory to interpret the polarization properties of the band-edge emission in GaN crystals. Solid State Communications, 1987, 61, 381-384.	0.9	0
182	Transient state study of the polarization properties of sideband recombination emissions in GaN crystals. Journal of Luminescence, 1988, 40-41, 491-492.	1.5	0
183	Optoelectronic Devices: Low-Temperature Combustion-Synthesized Nickel Oxide Thin Films as Hole-Transport Interlayers for Solution-Processed Optoelectronic Devices (Adv. Energy Mater. 6/2014). Advanced Energy Materials, 2014, 4, .	10.2	0
184	Polymer optoelectronics " towards nanometer dimensions. , 2003, , 65-81.		0