Zhi-Xiang Wei

List of Publications by Year
in descending order

		6592	5663
275	28,860	79	162
papers	citations	h-index	g-index

281	281	281	20474
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. Nature Communications, 2019, 10, 2515.	5.8	1,431
2	Singleâ€Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. Advanced Materials, 2020, 32, e1908205.	11.1	1,407
3	Hierarchical Nanocomposites of Polyaniline Nanowire Arrays on Graphene Oxide Sheets with Synergistic Effect for Energy Storage. ACS Nano, 2010, 4, 5019-5026.	7.3	1,287
4	Singleâ€Junction Organic Photovoltaic Cell with 19% Efficiency. Advanced Materials, 2021, 33, e2102420.	11.1	1,072
5	Conducting Polymer Nanowire Arrays for High Performance Supercapacitors. Small, 2014, 10, 14-31.	5.2	685
6	Allâ€Polymer Solar Cells Based on Absorptionâ€Complementary Polymer Donor and Acceptor with High Power Conversion Efficiency of 8.27%. Advanced Materials, 2016, 28, 1884-1890.	11.1	670
7	A low cost and high performance polymer donor material for polymer solar cells. Nature Communications, 2018, 9, 743.	5.8	635
8	Singleâ€Junction Binaryâ€Blend Nonfullerene Polymer Solar Cells with 12.1% Efficiency. Advanced Materials, 2017, 29, 1700144.	11.1	629
9	Nanostructures of Polyaniline Doped with Inorganic Acids. Macromolecules, 2002, 35, 5937-5942.	2.2	594
10	Highâ€Performance Twoâ€Ply Yarn Supercapacitors Based on Carbon Nanotubes and Polyaniline Nanowire Arrays. Advanced Materials, 2013, 25, 1494-1498.	11.1	555
11	Fluorination-enabled optimal morphology leads to over 11% efficiency for inverted small-molecule organic solar cells. Nature Communications, 2016, 7, 13740.	5.8	549
12	Conjugated Polymerâ€"Small Molecule Alloy Leads to High Efficient Ternary Organic Solar Cells. Journal of the American Chemical Society, 2015, 137, 8176-8183.	6.6	518
13	Formation Mechanism of Self-Assembled Polyaniline Micro/Nanotubes. Langmuir, 2002, 18, 917-921.	1.6	499
14	Conducting Polyaniline Nanowire Arrays for High Performance Supercapacitors. Journal of Physical Chemistry C, 2010, 114, 8062-8067.	1.5	497
15	Hierarchical Porous Graphene/Polyaniline Composite Film with Superior Rate Performance for Flexible Supercapacitors. Advanced Materials, 2013, 25, 6985-6990.	11.1	472
16	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. Advanced Materials, 2019, 31, e1808356.	11.1	388
17	Chemically Crosslinked Hydrogel Film Leads to Integrated Flexible Supercapacitors with Superior Performance. Advanced Materials, 2015, 27, 7451-7457.	11.1	386
18	Binary Organic Solar Cells Breaking 19% via Manipulating the Vertical Component Distribution. Advanced Materials, 2022, 34, .	11.1	384

#	ARTICLE	IF	CITATIONS
19	Conducting polymer nanostructures and their application in biosensors. Journal of Colloid and Interface Science, 2010, 341, 1-11.	5.0	366
20	Nitrogen-Doped Graphene Aerogels as Efficient Supercapacitor Electrodes and Gas Adsorbents. ACS Applied Materials & Interfaces, 2015, 7, 1431-1438.	4.0	364
21	Mapping Polymer Donors toward Highâ€Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155.	11.1	360
22	A Highly Efficient Nonâ€Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fineâ€Tuned Holeâ€Transporting Layer. Advanced Materials, 2018, 30, e1801801.	11.1	360
23	Integrated energy storage and electrochromic function in one flexible device: an energy storage smart window. Energy and Environmental Science, 2012, 5, 8384.	15.6	352
24	An Allâ€Solidâ€State Flexible Microâ€supercapacitor on a Chip. Advanced Energy Materials, 2011, 1, 1068-1072.	10.2	344
25	All-small-molecule organic solar cells with over 14% efficiency by optimizing hierarchical morphologies. Nature Communications, 2019, 10, 5393.	5.8	273
26	Largeâ€Area Organic Solar Cells: Material Requirements, Modular Designs, and Printing Methods. Advanced Materials, 2019, 31, e1805089.	11.1	246
27	Benzotriazole-Based Acceptor and Donors, Coupled with Chlorination, Achieve a High <i>V</i>_{OC} of 1.24 V and an Efficiency of 10.5% in Fullerene-Free Organic Solar Cells. Chemistry of Materials, 2019, 31, 3941-3947.	3.2	236
28	Highâ€Performance Asâ€Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. Advanced Materials, 2018, 30, 1704546.	11.1	233
29	An Electron Acceptor with Porphyrin and Perylene Bisimides for Efficient Nonâ€Fullerene Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 2694-2698.	7.2	232
30	Core-Spun Carbon Nanotube Yarn Supercapacitors for Wearable Electronic Textiles. ACS Nano, 2014, 8, 4571-4579.	7.3	228
31	Highâ€Performance Allâ€Carbon Yarn Microâ€Supercapacitor for an Integrated Energy System. Advanced Materials, 2014, 26, 4100-4106.	11.1	223
32	Volatilizable Solid Additiveâ€Assisted Treatment Enables Organic Solar Cells with Efficiency over 18.8% and Fill Factor Exceeding 80%. Advanced Materials, 2021, 33, e2105301.	11.1	222
33	Flexible supercapacitors based on cloth-supported electrodes of conducting polymer nanowire array/SWCNT composites. Journal of Materials Chemistry, 2011, 21, 16373.	6.7	202
34	Flexible and Binderâ€Free Organic Cathode for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 3338-3343.	11.1	200
35	An organic cathode material based on a polyimide/CNT nanocomposite for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 6366.	5.2	197
36	Synergistic Effect of Polymer and Small Molecules for Highâ€Performance Ternary Organic Solar Cells. Advanced Materials, 2015, 27, 1071-1076.	11.1	192

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37	Achievement of High <i>V</i>_{oc} of 1.02 V for P3HTâ€Based Organic Solar Cell Using a Benzotriazoleâ€Containing Nonâ€Fullerene Acceptor. Advanced Energy Materials, 2017, 7, 1602269.	10.2	191
38	Conducting polymernanowire arrays with enhanced electrochemical performance. Journal of Materials Chemistry, 2010, 20, 1117-1121.	6.7	189
39	Simultaneously Achieved High Openâ€Circuit Voltage and Efficient Charge Generation by Fineâ€Tuning Chargeâ€Transfer Driving Force in Nonfullerene Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1704507.	7.8	180
40	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. Science China Chemistry, 2018, 61, 1328-1337.	4.2	177
41	Mechanical Analyses and Structural Design Requirements for Flexible Energy Storage Devices. Advanced Energy Materials, 2017, 7, 1700535.	10.2	170
42	Supramolecular Helices: Chirality Transfer from Conjugated Molecules to Structures. Advanced Materials, 2013, 25, 6039-6049.	11.1	158
43	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. Chemistry of Materials, 2018, 30, 2129-2134.	3.2	157
44	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Fieldâ€Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. Advanced Materials, 2016, 28, 943-950.	11.1	155
45	Flexible high performance wet-spun graphene fiber supercapacitors. RSC Advances, 2013, 3, 23957.	1.7	152
46	Largeâ€Area Polyimide/SWCNT Nanocable Cathode for Flexible Lithiumâ€Ion Batteries. Advanced Materials, 2015, 27, 6504-6510.	11.1	150
47	Threadâ€Like Supercapacitors Based on Oneâ€Step Spun Nanocomposite Yarns. Small, 2014, 10, 3187-3193.	5.2	146
48	From Alloy-Like to Cascade Blended Structure: Designing High-Performance All-Small-Molecule Ternary Solar Cells. Journal of the American Chemical Society, 2018, 140, 1549-1556.	6.6	145
49	Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Lowâ€Bandâ€Gap Polymer with Fineâ€Tuned Properties. Advanced Materials, 2016, 28, 5133-5138.	11.1	144
50	Inversion of the Supramolecular Chirality of Nanofibrous Structures through Coâ€Assembly with Achiral Molecules. Angewandte Chemie - International Edition, 2016, 55, 2411-2415.	7.2	140
51	Aniline Oligomers â€“ Architecture, Function and New Opportunities for Nanostructured Materials. Macromolecular Rapid Communications, 2008, 29, 280-292.	2.0	139
52	Toward Over 15% Power Conversion Efficiency for Organic Solar Cells: Current Status and Perspectives. Small Methods, 2017, 1, 1700258.	4.6	130
53	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Lightâ€Emitting Functions in One Device. Advanced Materials, 2021, 33, e2101090.	11.1	129
54	A Carbonyl Compoundâ€Based Flexible Cathode with Superior Rate Performance and Cyclic Stability for Flexible Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, 1703868.	11.1	128

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55	The Introduction of Fluorine and Sulfur Atoms into Benzotriazoleâ€Based pâ€Type Polymers to Match with a Benzotriazoleâ€Containing nâ€Type Small Molecule: â€œThe Sameâ€Acceptorâ€Strategyâ€to Realize High Openâ€Circuit Voltage. Advanced Energy Materials, 2018, 8, 1801582.	10.2	122
56	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Lowâ€Drivingâ€Force Organic Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15348-15353.	7.2	121
57	A flexible electrode based on a three-dimensional graphene network-supported polyimide for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 10842-10846.	5.2	120
58	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	3.2	117
59	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. Energy and Environmental Science, 2021, 14, 5903-5910.	15.6	116
60	Enhancing Performance of Largeâ€Area Organic Solar Cells with Thick Film via Ternary Strategy. Small, 2017, 13, 1700388.	5.2	113
61	Small reorganization energy acceptors enable low energy losses in non-fullerene organic solar cells. Nature Communications, 2022, 13, .	5.8	113
62	Polyaniline nanotubes and their dendrites doped with different naphthalene sulfonic acids. Acta Materialia, 2005, 53, 1373-1379.	3.8	112
63	Modulating helicity through amphiphilicityâ€"tuning supramolecular interactions for the controlled assembly of perylenes. Chemical Communications, 2011, 47, 5554-5556.	2.2	112
64	Polymer/Small Molecule/Fullerene Based Ternary Solar Cells. Advanced Energy Materials, 2017, 7, 1602540.	10.2	111
65	Conjugated microporous polymers for energy storage: Recent progress and challenges. Nano Energy, 2021, 85, 105958.	8.2	110
66	Selfâ€Assembled Sugarâ€Substituted Perylene Diimide Nanostructures with Homochirality and High Gas Sensitivity. Advanced Functional Materials, 2012, 22, 4149-4158.	7.8	107
67	Biomass-derived flexible porous carbon materials and their applications in supercapacitor and gas adsorption. Materials and Design, 2017, 129, 164-172.	3.3	105
68	Combining Energy Transfer and Optimized Morphology for Highly Efficient Ternary Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1602552.	10.2	97
69	A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1802050.	10.2	97
70	Efficient Two-Dimensional Tin Halide Perovskite Light-Emitting Diodes via a Spacer Cation Substitution Strategy. Journal of Physical Chemistry Letters, 2020, 11, 1120-1127.	2.1	97
71	Helical supramolecular aggregates, mesoscopic organisation and nanofibers of a perylenebisimideâ€"chiral surfactant complex via ionic self-assembly. Journal of Materials Chemistry, 2009, 19, 2356.	6.7	96
72	Exciton Binding Energies of Nonfullerene Small Molecule Acceptors: Implication for Exciton Dissociation Driving Forces in Organic Solar Cells. Journal of Physical Chemistry C, 2018, 122, 22309-22316.	1.5	93

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73	Polypyrrole nanofiber arrays synthesized by a biphasic electrochemical strategy. Journal of Materials Chemistry, 2008, 18, 2276.	6.7	92
74	Synergistic Optimization Enables Largeâ€Area Flexible Organic Solar Cells to Maintain over 98% PCE of the Smallâ€Area Rigid Devices. Advanced Materials, 2020, 32, e2005153.	11.1	89
75	Recent Progress in Polymeric Carbonylâ€Based Electrode Materials for Lithium and Sodium Ion Batteries. Macromolecular Rapid Communications, 2019, 40, e1800565.	2.0	88
76	Acceptor Endâ€Capped Oligomeric Conjugated Molecules with Broadened Absorption and Enhanced Extinction Coefficients for Highâ€Efficiency Organic Solar Cells. Advanced Materials, 2016, 28, 5980-5985.	11.1	87
77	Improve the Performance of the Allâ€Smallâ€Molecule Nonfullerene Organic Solar Cells through Enhancing the Crystallinity of Acceptors. Advanced Energy Materials, 2018, 8, 1702377.	10.2	87
78	Effects of energy-level offset between a donor and acceptor on the photovoltaic performance of non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 18889-18897.	5.2	87
79	Regulating Bulkâ€Heterojunction Molecular Orientations through Surface Free Energy Control of Holeâ€Transporting Layers for Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1806921.	11.1	86
80	Simple Nonfusedâ€Ring Electron Acceptors with Noncovalently Conformational Locks for Lowâ€Cost and Highâ€Performance Organic Solar Cells Enabled by Endâ€Group Engineering. Advanced Functional Materials, 2022, 32, 2108861.	7.8	84
81	Molecular Engineering of Dâˆ'Ï€â€"A Copolymers Based on 4,8-Bis(4-chlorothiophen-2-yl)benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene (BDT-T-Cl) for High-Performance Fullerene-Free Organic Solar Cells. Macromolecules, 2019, 52, 6227-6233.	2.2	83
82	Self-Assembly and Electrical Conductivity Transitions in Conjugated Oligoaniline-Surfactant Complexes. Angewandte Chemie - International Edition, 2005, 44, 751-756.	7.2	81
83	An Efficiency of 16.46% and a <i>T</i>₈₀ Lifetime of Over 4000 h for the PM6:Y6 Inverted Organic Solar Cells Enabled by Surface Acid Treatment of the Zinc Oxide Electron Transporting Layer. ACS Applied Materials & Interfaces, 2021, 13, 17869-17881.	4.0	80
84	Effects of Shortened Alkyl Chains on Solutionâ€Processable Small Molecules with Oxoâ€Alkylated Nitrile Endâ€Capped Acceptors for Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2014, 4, 1400538.	10.2	79
85	Optimized â€œAlloyâ€Parallelâ€• Morphology of Ternary Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1502456.	10.2	79
86	Highly efficient flexible MAPbI₃ solar cells with a fullerene derivative-modified SnO₂ layer as the electron transport layer. Journal of Materials Chemistry A, 2019, 7, 6659-6664.	5.2	77
87	PBDT-TSR: a highly efficient conjugated polymer for polymer solar cells with a regioregular structure. Journal of Materials Chemistry A, 2016, 4, 1708-1713.	5.2	75
88	A universal method for constructing high efficiency organic solar cells with stacked structures. Energy and Environmental Science, 2021, 14, 2314-2321.	15.6	75
89	Biomimetic Superhelical Conducting Microfibers with Homochirality for Enantioselective Sensing. Journal of the American Chemical Society, 2014, 136, 578-581.	6.6	74
90	Oligomeric Donor Material for Highâ€Efficiency Organic Solar Cells: Breaking Down a Polymer. Advanced Materials, 2015, 27, 4229-4233.	11.1	74

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91	High Miscibility Compatible with Ordered Molecular Packing Enables an Excellent Efficiency of 16.2% in Allâ€Smallâ€Molecule Organic Solar Cells. Advanced Materials, 2022, 34, e2106316.	11.1	74
92	The effect of alkyl substitution position of thienyl outer side chains on photovoltaic performance of Aâ€“DAâ€²Dâ€“A type acceptors. Energy and Environmental Science, 2022, 15, 2011-2020.	15.6	73
93	Molecular imprinted polypyrrole nanowires for chiral amino acid recognition. Sensors and Actuators B: Chemical, 2008, 134, 573-578.	4.0	72
94	Aâ€"Ï€â€"Dâ€"Ï€â€"A Electronâ€Donating Small Molecules for Solutionâ€Processed Organic Solar Cells: A Review. Macromolecular Rapid Communications, 2017, 38, 1700470.	2.0	70
95	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells. National Science Review, 2021, 8, nwab031.	4.6	70
96	Selfâ€Powered Organic Photodetectors with High Detectivity for Near Infrared Light Detection Enabled by Dark Current Reduction. Advanced Functional Materials, 2021, 31, 2106326.	7.8	70
97	Hexagonal Superlattice of Chiral Conducting Polymers Self-Assembled by Mimicking Î²-Sheet Proteins with Anisotropic Electrical Transport. Journal of the American Chemical Society, 2010, 132, 12006-12012.	6.6	67
98	Ammonia Sensory Properties Based on Single-Crystalline Micro/Nanostructures of Perylenediimide Derivatives: Core-Substituted Effect. Journal of Physical Chemistry C, 2011, 115, 10399-10404.	1.5	67
99	â€œNâ€‹<i>Ï€</i>â€Nâ€•Type Oligomeric Acceptor Achieves an OPV Efficiency of 18.19% with Low Energy Loss and Excellent Stability. Advanced Science, 2022, 9, .	5.6	67
100	Decorating Polypyrrole Nanotubes with Au Nanoparticles by an In Situ Reduction Process. Macromolecular Rapid Communications, 2009, 30, 936-940.	2.0	66
101	Self-Assembled Organic Functional Nanotubes and Nanorods and Their Sensory Properties. Journal of Physical Chemistry C, 2009, 113, 3929-3933.	1.5	66
102	Metalâ€"Organic Framework-Derived Metal Oxide Embedded in Nitrogen-Doped Graphene Network for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 43171-43178.	4.0	66
103	Tuning the Supramolecular Chirality of Polyaniline by Methyl Substitution. Angewandte Chemie - International Edition, 2009, 48, 2003-2006.	7.2	64
104	Ambipolar Conjugated Polymers with Ultrahigh Balanced Hole and Electron Mobility for Printed Organic Complementary Logic via a Twoâ€Step Cï£¿H Activation Strategy. Advanced Materials, 2019, 31, e1806010.	11.1	63
105	Controllable Supramolecular Chiral Twisted Nanoribbons from Achiral Conjugated Oligoaniline Derivatives. Journal of the American Chemical Society, 2018, 140, 9417-9425.	6.6	62
106	Gamma-Irradiated Carbon Nanotube Yarn As Substrate for High-Performance Fiber Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 2553-2560.	4.0	61
107	Achieving Small Exciton Binding Energies in Small Molecule Acceptors for Organic Solar Cells: Effect of Molecular Packing. Journal of Physical Chemistry Letters, 2019, 10, 4888-4894.	2.1	60
108	Facile-Effective Hole-Transporting Materials Based on Dibenzo[<i>a</i>,<i>c</i>]carbazole: The Key Role of Linkage Position to Photovoltaic Performance of Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 2514-2521.	8.8	59

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109	Asymmetric Substitution of Endâ€Groups Triggers 16.34% Efficiency for Allâ€Smallâ€Molecule Organic Solar Cells. Advanced Materials, 2022, 34, .	11.1	59
110	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. Journal of Materials Chemistry A, 2019, 7, 3570-3576.	5.2	58
111	Enhancing the Photovoltaic Performance via Vertical Phase Distribution Optimization in Small Molecule:PC₇₁BM Blends. Advanced Energy Materials, 2017, 7, 1701548.	10.2	57
112	Spontaneous open-circuit voltage gain of fully fabricated organic solar cells caused by elimination of interfacial energy disorder. Energy and Environmental Science, 2019, 12, 2518-2528.	15.6	57
113	Scalable Production of Wearable Solidâ€State Liâ€Ion Capacitors from Nâ€Doped Hierarchical Carbon. Advanced Materials, 2020, 32, e2005531.	11.1	57
114	Liquidâ€Crystalline Small Molecules for Nonfullerene Solar Cells with High Fill Factors and Power Conversion Efficiencies. Advanced Energy Materials, 2019, 9, 1803175.	10.2	55
115	Stepwise Selfâ€Assembly of P3HT/CdSe Hybrid Nanowires with Enhanced Photoconductivity. Macromolecular Rapid Communications, 2009, 30, 1419-1423.	2.0	54
116	Moving Alkylâ€Chain Branching Point Induced a Hierarchical Morphology for Efficient Allâ€Smallâ€Molecule Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2005426.	7.8	54
117	Progress and prospects of thick-film organic solar cells. Journal of Materials Chemistry A, 2021, 9, 3125-3150.	5.2	53
118	Management of the crystallization in two-dimensional perovskite solar cells with enhanced efficiency within a wide temperature range and high stability. Nano Energy, 2019, 58, 706-714.	8.2	52
119	Asymmetric thiophene/pyridine flanked diketopyrrolopyrrole polymers for high performance polymer ambipolar field-effect transistors and solar cells. Journal of Materials Chemistry C, 2017, 5, 566-572.	2.7	51
120	Naphtho[1,2-<i>b</i>:5,6-<i>b</i>â€²]dithiophene-Based Small Molecules for Thick-Film Organic Solar Cells with High Fill Factors. Chemistry of Materials, 2016, 28, 943-950.	3.2	50
121	Nitrogenâ€doped nanoarrayâ€modified 3D hierarchical graphene as a cofunction host for highâ€performance flexible Liâ€S battery. EcoMat, 2020, 2, e12010.	6.8	50
122	All-small-molecule organic solar cells based on an electron donor incorporating binary electron-deficient units. Journal of Materials Chemistry A, 2016, 4, 6056-6063.	5.2	49
123	Regulating the phase separation of ternary organic solar cells via 3D architectured AIE molecules. Nano Energy, 2020, 68, 104271.	8.2	47
124	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. Nano Today, 2021, 41, 101289.	6.2	47
125	Synthesis and characterization of self-doped poly(aniline-co-aminonaphthalene sulfonic acid) nanotubes. Journal of Applied Polymer Science, 2003, 87, 1297-1301.	1.3	46
126	A graphene supported polyimide nanocomposite as a high performance organic cathode material for lithium ion batteries. RSC Advances, 2016, 6, 33287-33294.	1.7	46

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127	Nitrogen-Doped Porous Carbons Derived from Polypyrrole-Based Aerogels for Gas Uptake and Supercapacitors. ACS Applied Nano Materials, 2018, 1, 609-616.	2.4	46
128	Naphtho[1,2-b:5,6-bâ€²]dithiophene Based Two-Dimensional Conjugated Polymers for Highly Efficient Thick-Film Inverted Polymer Solar Cells. Chemistry of Materials, 2014, 26, 6947-6954.	3.2	45
129	18.55% Efficiency Polymer Solar Cells Based on a Small Molecule Acceptor with Alkylthienyl Outer Side Chains and a Low-Cost Polymer Donor PTQ10. CCS Chemistry, 2023, 5, 841-850.	4.6	45
130	Understanding the Impact of Hierarchical Nanostructure in Ternary Organic Solar Cells. Advanced Science, 2015, 2, 1500250.	5.6	43
131	Nonâ€Fullerene Acceptors With A₂â€‰=â€‰A₁â€Dâ€A₁â€‰=â€‰A₂ Skeleton Containing Benzothiadiazole and Thiazolidineâ€2,4â€Dione for Highâ€Performance P3HTâ€Based Organic Solar Cells. Solar Rrl, 2017, 1, 1700166.	3.1	43
132	Correlations between Performance of Organic Solar Cells and Filmâ€Depthâ€Dependent Optical and Electronic Variations. Advanced Optical Materials, 2019, 7, 1900152.	3.6	43
133	Flexible Short-Wave Infrared Image Sensors Enabled by High-Performance Polymeric Photodetectors. Macromolecules, 2020, 53, 10636-10643.	2.2	42
134	Theoryâ€Guided Material Design Enabling Highâ€Performance Multifunctional Semitransparent Organic Photovoltaics without Optical Modulations. Advanced Materials, 2022, 34, e2200337.	11.1	42
135	Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. Organic Electronics, 2019, 70, 25-31.	1.4	41
136	Conducting Polymer Nanostructures and their Derivatives for Flexible Supercapacitors. Israel Journal of Chemistry, 2018, 58, 1299-1314.	1.0	40
137	Modulation of Donor Alkyl Terminal Chains with the Shifting Branching Point Leads to the Optimized Morphology and Efficient All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25100-25107.	4.0	40
138	Inversion of the Supramolecular Chirality of Nanofibrous Structures through Coâ€Assembly with Achiral Molecules. Angewandte Chemie, 2016, 128, 2457-2461.	1.6	39
139	A Hierarchically Porous Hypercrosslinked and Novel Quinone based Stable Organic Polymer Electrode for Lithium-Ion Batteries. Electrochimica Acta, 2017, 255, 145-152.	2.6	39
140	Monodispersed ZnSe Colloidal Microspheres:â€‰ Preparation, Characterization, and Their 2D Arrays. Langmuir, 2007, 23, 9008-9013.	1.6	38
141	Probing the Sensory Property of Perylenediimide Derivatives in Hydrazine Gas: Core-Substituted Aromatic Group Effect. ACS Applied Materials & Interfaces, 2014, 6, 9307-9313.	4.0	38
142	Long-term stable and highly efficient perovskite solar cells with a formamidinium chloride (FACl) additive. Journal of Materials Chemistry A, 2020, 8, 17756-17764.	5.2	38
143	Entangled structure morphology by polymer guest enabling mechanically robust organic solar cells with efficiencies of over 16.5%. Matter, 2022, 5, 1877-1889.	5.0	38
144	A conformational locking strategy in linked-acceptor type polymers for organic solar cells. Polymer Chemistry, 2016, 7, 1323-1329.	1.9	37

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145	Poly(3-hexylthiophene)-based non-fullerene solar cells achieve high photovoltaic performance with small energy loss. Journal of Materials Chemistry A, 2017, 5, 16573-16579.	5.2	37
146	Two-dimensional benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]difuran-based wide bandgap conjugated polymers for efficient fullerene-free polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 4023-4031.	5.2	37
147	Constructing Highâ€Performance Allâ€Smallâ€Molecule Ternary Solar Cells with the Same Third Component but Different Mechanisms for Fullerene and Nonâ€fullerene Systems. Advanced Energy Materials, 2019, 9, 1900190.	10.2	37
148	A Sequential Slotâ€Die Coated Ternary System Enables Efficient Flexible Organic Solar Cells. Solar Rrl, 2019, 3, 1800333.	3.1	37
149	Modulating supramolecular helicity and electrical conductivity of perylene dyes through an achiral alkyl chain. Chemical Communications, 2014, 50, 8343.	2.2	36
150	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. Chemistry of Materials, 2020, 32, 1993-2003.	3.2	36
151	A facile strategy to enhance absorption coefficient and photovoltaic performance of two-dimensional benzo[1,2-b:4,5-bâ€²]dithiophene and thieno[3,4-c]pyrrole-4,6-dione polymers via subtle chemical structure variations. Organic Electronics, 2013, 14, 2652-2661.	1.4	35
152	Orientationally engineered 2D/3D perovskite for high efficiency solar cells. Sustainable Energy and Fuels, 2020, 4, 324-330.	2.5	35
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