Hong-Zheng Chen

List of Publications by Year
in descending order

319 papers	24,036 citations	8159 76 h-index	9553 142 g-index
321 all docs	321 docs citations	321 times ranked	21406 citing authors

#	Article	IF	Citations
1	Graphene-Like Two-Dimensional Materials. Chemical Reviews, 2013, 113, 3766-3798.	23.0	3,761
2	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. Energy and Environmental Science, 2020, 13, 635-645.	15.6	636
3	Enhanced Photovoltaic Performance of CH₃NH₃PbI₃ Perovskite Solar Cells through Interfacial Engineering Using Self-Assembling Monolayer. Journal of the American Chemical Society, 2015, 137, 2674-2679.	6.6	590
4	New Phase for Organic Solar Cell Research: Emergence of Y-Series Electron Acceptors and Their Perspectives. ACS Energy Letters, 2020, 5, 1554-1567.	8.8	491
5	Dopant-Free Hole-Transporting Material with a <i>C</i>_{3<i>h</i>} Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 2528-2531.	6.6	446
6	Layerâ€byâ€Layer Processed Ternary Organic Photovoltaics with Efficiency over 18%. Advanced Materials, 2021, 33, e2007231.	11.1	438
7	An Unfusedâ€Coreâ€Based Nonfullerene Acceptor Enables Highâ€Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. Advanced Materials, 2018, 30, 1705208.	11.1	380
8	Recent advances in perovskite solar cells: efficiency, stability and lead-free perovskite. Journal of Materials Chemistry A, 2017, 5, 11462-11482.	5.2	378
9	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. Journal of the American Chemical Society, 2019, 141, 3073-3082.	6.6	362
10	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
11	Simple non-fused electron acceptors for efficient and stable organic solar cells. Nature Communications, 2019, 10, 2152.	5.8	348
12	A spirobifluorene and diketopyrrolopyrrole moieties based non-fullerene acceptor for efficient and thermally stable polymer solar cells with high open-circuit voltage. Energy and Environmental Science, 2016, 9, 604-610.	15.6	347
13	Orientation Regulation of Phenylethylammonium Cation Based 2D Perovskite Solar Cell with Efficiency Higher Than 11%. Advanced Energy Materials, 2018, 8, 1702498.	10.2	313
14	Manipulating the D:A interfacial energetics and intermolecular packing for 19.2% efficiency organic photovoltaics. Energy and Environmental Science, 2022, 15, 2537-2544.	15.6	311
15	Antibacterial activity of two-dimensional MoS₂ sheets. Nanoscale, 2014, 6, 10126-10133.	2.8	310
16	Precisely Controlling the Position of Bromine on the End Group Enables Wellâ€Regular Polymer Acceptors for Allâ€Polymer Solar Cells with Efficiencies over 15%. Advanced Materials, 2020, 32, e2005942.	11.1	282
17	Transparent electrodes for organic optoelectronic devices: a review. Journal of Photonics for Energy, 2014, 4, 040990.	0.8	249
18	Asymmetric Electron Acceptors for Highâ€Efficiency and Lowâ€Energyâ€Loss Organic Photovoltaics. Advanced Materials, 2020, 32, e2001160.	11.1	246

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19	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. Joule, 2021, 5, 914-930.	11.7	228
20	Efficient Organic Solar Cells with Nonâ€Fullerene Acceptors. Small, 2017, 13, 1701120.	5.2	216
21	Vertically Oriented 2D Layered Perovskite Solar Cells with Enhanced Efficiency and Good Stability. Small, 2017, 13, 1700611.	5.2	212
22	Desired open-circuit voltage increase enables efficiencies approaching 19% in symmetric-asymmetric molecule ternary organic photovoltaics. Joule, 2022, 6, 662-675.	11.7	212
23	Molecular Engineered Holeâ€Extraction Materials to Enable Dopantâ€Free, Efficient pâ€iâ€n Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700012.	10.2	195
24	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. Chemistry of Materials, 2018, 30, 5429-5434.	3.2	194
25	Recent progress in 2D/quasi-2D layered metal halide perovskites for solar cells. Journal of Materials Chemistry A, 2018, 6, 11063-11077.	5.2	183
26	Simple Nonâ€Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. Angewandte Chemie - International Edition, 2021, 60, 12964-12970.	7.2	172
27	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. Joule, 2021, 5, 945-957.	11.7	171
28	Superhydrophobic cotton fabrics prepared by solâ€“gel coating of TiO₂and surface hydrophobization. Science and Technology of Advanced Materials, 2008, 9, 035001.	2.8	167
29	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
30	Engineering crystalline structures of two-dimensional MoS₂sheets for high-performance organic solar cells. Journal of Materials Chemistry A, 2014, 2, 7727-7733.	5.2	142
31	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. Advanced Functional Materials, 2015, 25, 5954-5966.	7.8	140
32	Highâ€Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and Seeâ€Through Functions. Advanced Materials, 2020, 32, e2001621.	11.1	140
33	Interfacial engineering of self-assembled monolayer modified semi-roll-to-roll planar heterojunction perovskite solar cells on flexible substrates. Journal of Materials Chemistry A, 2015, 3, 24254-24260.	5.2	133
34	Thiocyanate assisted performance enhancement of formamidinium based planar perovskite solar cells through a single one-step solution process. Journal of Materials Chemistry A, 2016, 4, 9430-9436.	5.2	130
35	Manipulating the Mixedâ€Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. Advanced Materials, 2019, 31, e1901284.	11.1	127
36	Stable Bimetallic Polyphthalocyanine Covalent Organic Frameworks as Superior Electrocatalysts. Journal of the American Chemical Society, 2021, 143, 18052-18060.	6.6	127

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37	Hierarchical architecture of WS₂nanosheets on graphene frameworks with enhanced electrochemical properties for lithium storage and hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 24128-24138.	5.2	126
38	Highly Efficient Organic Solar Cells Consisting of Double Bulk Heterojunction Layers. Advanced Materials, 2017, 29, 1606729.	11.1	124
39	Highly Efficient Sn/Pb Binary Perovskite Solar Cell via Precursor Engineering: A Twoâ€Step Fabrication Process. Advanced Functional Materials, 2019, 29, 1807024.	7.8	122
40	Revealing the effects of molecular packing on the performances of polymer solar cells based on Aâ€"Dâ€"Câ€"Dâ€"A type non-fullerene acceptors. Journal of Materials Chemistry A, 2018, 6, 12132-12141.	5.2	119
41	Câ€"H activation: making diketopyrrolopyrrole derivatives easily accessible. Journal of Materials Chemistry A, 2013, 1, 2795.	5.2	118
42	The Second Spacer Cation Assisted Growth of a 2D Perovskite Film with Oriented Large Grain for Highly Efficient and Stable Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 9409-9413.	7.2	118
43	Highâ€Performance Thickness Insensitive Perovskite Solar Cells with Enhanced Moisture Stability. Advanced Energy Materials, 2018, 8, 1800438.	10.2	118
44	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	3.2	117
45	Nearâ€Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. Advanced Materials, 2018, 30, e1803769.	11.1	116
46	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18%. Nature Communications, 2022, 13, 2598.	5.8	113
47	Solutionâ€Grown Organic Singleâ€Crystalline pâ€n Junctions with Ambipolar Charge Transport. Advanced Materials, 2013, 25, 5762-5766.	11.1	112
48	Molecular electron acceptors for efficient fullerene-free organic solar cells. Physical Chemistry Chemical Physics, 2017, 19, 3440-3458.	1.3	112
49	Au nanoparticles on ultrathin MoS₂sheets for plasmonic organic solar cells. Journal of Materials Chemistry A, 2014, 2, 14798-14806.	5.2	110
50	A simple perylene diimide derivative with a highly twisted geometry as an electron acceptor for efficient organic solar cells. Journal of Materials Chemistry A, 2016, 4, 10659-10665.	5.2	110
51	Piperazine-Linked Covalent Organic Frameworks with High Electrical Conductivity. Journal of the American Chemical Society, 2022, 144, 2873-2878.	6.6	106
52	Nonfullerene Tandem Organic Solar Cells with High Openâ€Circuit Voltage of 1.97 V. Advanced Materials, 2016, 28, 9729-9734.	11.1	104
53	A Lowâ€Temperature, Solutionâ€Processable Organic Electronâ€Transporting Layer Based on Planar Coronene for Highâ€performance Conventional Perovskite Solar Cells. Advanced Materials, 2016, 28, 10786-10793.	11.1	102
54	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. Energy and Environmental Science, 2015, 8, 1712-1718.	15.6	101

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55	Dilution effect for highly efficient multiple-component organic solar cells. Nature Nanotechnology, 2022, 17, 53-60.	15.6	99
56	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. Nature Communications, 2021, 12, 4627.	5.8	98
57	A non-fullerene acceptor with a fully fused backbone for efficient polymer solar cells with a high open-circuit voltage. Journal of Materials Chemistry A, 2016, 4, 14983-14987.	5.2	97
58	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. Nature Communications, 2021, 12, 3049.	5.8	97
59	Preparation of superhydrophobic surfaces on cotton textiles. Science and Technology of Advanced Materials, 2008, 9, 035008.	2.8	95
60	Highly oriented two-dimensional formamidinium lead iodide perovskites with a small bandgap of 1.51 eV. Materials Chemistry Frontiers, 2018, 2, 121-128.	3.2	95
61	Graphene uniformly decorated with gold nanodots: in situ synthesis, enhanced dispersibility and applications. Journal of Materials Chemistry, 2011, 21, 8096.	6.7	93
62	A Nearâ€Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. Advanced Science, 2018, 5, 1800755.	5.6	93
63	Semitransparent Organic Solar Cells with Vivid Colors. ACS Energy Letters, 2020, 5, 3115-3123.	8.8	93
64	Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 16700-16706.	4.0	93
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73	Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. Journal of Materials Chemistry A, 2017, 5, 9649-9654.	5.2	83
74	Preparation of Singleâ€Crystalline Heterojunctions for Organic Electronics. Advanced Materials, 2017, 29, 1606101.	11.1	82
75	A Tetraperylene Diimides Based 3D Nonfullerene Acceptor for Efficient Organic Photovoltaics. Advanced Science, 2015, 2, 1500014.	5.6	79
76	A solution-processable bipolar diketopyrrolopyrrole molecule used as both electron donor and acceptor for efficient organic solar cells. Journal of Materials Chemistry A, 2015, 3, 1902-1905.	5.2	79
77	Visibleâ€Light Ultrasensitive Solutionâ€Prepared Layered Organicâ€“Inorganic Hybrid Perovskite Fieldâ€Effect Transistor. Advanced Optical Materials, 2017, 5, 1600539.	3.6	78
78	A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. Journal of Materials Chemistry A, 2016, 4, 3777-3783.	5.2	77
79	Nearâ€Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. Small Methods, 2019, 3, 1900531.	4.6	76
80	Solution-processed CuO as an efficient hole-extraction layer for inverted planar heterojunction perovskite solar cells. Chinese Chemical Letters, 2017, 28, 13-18.	4.8	74
81	Novel planar heterostructure perovskite solar cells with CdS nanorods array as electron transport layer. Solar Energy Materials and Solar Cells, 2015, 140, 396-404.	3.0	72
82	Electronic properties of polymorphic two-dimensional layered chromium disulphide. Nanoscale, 2019, 11, 20123-20132.	2.8	72
83	Functionalizing Single Crystals: Incorporation of Nanoparticles Inside Gelâ€Grown Calcite Crystals. Angewandte Chemie - International Edition, 2014, 53, 4127-4131.	7.2	69
84	Toward Highly Efficient Largeâ€Area ITOâ€Free Organic Solar Cells with a Conductanceâ€Gradient Transparent Electrode. Advanced Materials, 2015, 27, 6983-6989.	11.1	67
85	Polymer Modification on the NiO_{<i>x</i>} Hole Transport Layer Boosts Open-Circuit Voltage to 1.19 V for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 46340-46347.	4.0	67
86	Mitigating the Lead Leakage of High-Performance Perovskite Solar Cells via In Situ Polymerized Networks. ACS Energy Letters, 2021, 6, 3443-3449.	8.8	67
87	Design of Non-fused Ring Acceptors toward High-Performance, Stable, and Low-Cost Organic Photovoltaics. Accounts of Materials Research, 2022, 3, 644-657.	5.9	66
88	Solutionâ€Grown Organic Singleâ€Crystalline Donorâ€“Acceptor Heterojunctions for Photovoltaics. Angewandte Chemie - International Edition, 2015, 54, 956-960.	7.2	65
89	Boosting the electron mobility of solution-grown organic single crystals via reducing the amount of polar solvent residues. Materials Horizons, 2016, 3, 119-123.	6.4	64
90	Donorâ€“Acceptor Conjugated Macrocycles: Synthesis and Hostâ€“Guest Coassembly with Fullerene toward Photovoltaic Application. ACS Nano, 2017, 11, 11701-11713.	7.3	64

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91	An ester-functionalized diketopyrrolopyrrole molecule with appropriate energy levels for application in solution-processed organic solar cells. Journal of Materials Chemistry A, 2013, 1, 105-111.	5.2	63
92	Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. Angewandte Chemie - International Edition, 2021, 60, 10806-10813.	7.2	63
93	Star-Shaped Dâ€“A Small Molecules Based on Diketopyrrolopyrrole and Triphenylamine for Efficient Solution-Processed Organic Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 972-980.	4.0	62
94	Boosting Organicâ€“Metal Oxide Heterojunction via Conjugated Small Molecules for Efficient and Stable Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2019, 9, 1900887.	10.2	62
95	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. Energy and Environmental Science, 2022, 15, 855-865.	15.6	62
96	Compromising Charge Generation and Recombination with Asymmetric Molecule for Highâ€Performance Binary Organic Photovoltaics with Over 18% Certified Efficiency. Advanced Functional Materials, 2022, 32, .	7.8	62
97	Ultra-stable two-dimensional MoS₂ solution for highly efficient organic solar cells. RSC Advances, 2014, 4, 32744-32748.	1.7	61
98	Non-fullerene Acceptors with a Thieno[3,4-c]pyrrole-4,6-dione (TPD) Core for Efficient Organic Solar Cells. Chinese Journal of Polymer Science (English Edition), 2019, 37, 1005-1014.	2.0	61
99	Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. Journal of Materials Chemistry A, 2017, 5, 9396-9401.	5.2	60
100	Low-Temperature Solution Processed Ultraviolet Photodetector Based on an Ordered TiO₂ Nanorod Arrayâ€“Polymer Hybrid. Journal of Physical Chemistry C, 2011, 115, 13438-13445.	1.5	59
101	Ambient roll-to-roll fabrication of flexible solar cells based on small molecules. Journal of Materials Chemistry C, 2013, 1, 8007.	2.7	59
102	Ambipolar charge transport of TIPS-pentacene single-crystals grown from non-polar solvents. Materials Horizons, 2015, 2, 344-349.	6.4	59
103	Highly Efficient Guanidiniumâ€Based Quasi 2D Perovskite Solar Cells via a Twoâ€Step Postâ€Treatment Process. Small Methods, 2019, 3, 1900375.	4.6	59
104	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. Nano Energy, 2019, 63, 103807.	8.2	59
105	A Simple Electron Acceptor with Unfused Backbone for Polymer Solar Cells. Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica, 2019, 35, 394-400.	2.2	59
106	Enhanced Charge Transfer between Fullerene and Non-Fullerene Acceptors Enables Highly Efficient Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 42444-42452.	4.0	58
107	Biomolecule-assisted hydrothermal synthesis of In2S3 porous films and enhanced photocatalytic properties. Journal of Materials Chemistry, 2011, 21, 13327.	6.7	57
108	Easy incorporation of single-walled carbon nanotubes into two-dimensional MoS₂ for high-performance hydrogen evolution. Nanotechnology, 2014, 25, 465401.	1.3	57

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109	A New End Group on Nonfullerene Acceptors Endows Efficient Organic Solar Cells with Low Energy Losses. Advanced Functional Materials, 2022, 32, 2108614.	7.8	56
110	Stable Quasiâ€2D Perovskite Solar Cells with Efficiency over 18% Enabled by Heatâ€"Light Coâ€Treatment. Advanced Functional Materials, 2020, 30, 2004188.	7.8	54
111	Highâ€Performance Semiâ€Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. Advanced Energy Materials, 2021, 11, 2003408.	10.2	54
112	ZnO/poly(9,9-dihexylfluorene) based inorganic/organic hybrid ultraviolet photodetector. Applied Physics Letters, 2008, 93, .	1.5	53
113	Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. Materials Chemistry Frontiers, 2019, 3, 513-519.	3.2	53
114	MoO3â€"Au composite interfacial layer for high efficiency and air-stable organic solar cells. Organic Electronics, 2013, 14, 797-803.	1.4	52
115	Nanoparticles Incorporated inside Single-Crystals: Enhanced Fluorescent Properties. Chemistry of Materials, 2016, 28, 7537-7543.	3.2	52
116	Perovskite/Organic Bulkâ€Heterojunction Integrated Ultrasensitive Broadband Photodetectors with High Nearâ€Infrared External Quantum Efficiency over 70%. Small, 2018, 14, e1802349.	5.2	52
117	Versatile Sequential Casting Processing for Highly Efficient and Stable Binary Organic Photovoltaics. Advanced Materials, 2022, 34, .	11.1	52
118	High-performance see-through power windows. Energy and Environmental Science, 2022, 15, 2629-2637.	15.6	51
119	A Novel Wideâ€Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. Advanced Functional Materials, 2020, 30, 1910466.	7.8	50
120	Fluoroperylene diimide: a soluble and air-stable electron acceptor. Chemical Communications, 2003, , 1710.	2.2	49
121	Single-crystalline lead halide perovskite arrays for solar cells. Journal of Materials Chemistry A, 2016, 4, 1214-1217.	5.2	49
122	Black Phosphorus Quantum Dots Induced Highâ€Quality Perovskite Film for Efficient and Thermally Stable Planar Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900132.	3.1	49
123	Near infrared electron acceptors with a photoresponse beyond 1000 nm for highly efficient organic solar cells. Journal of Materials Chemistry A, 2020, 8, 18154-18161.	5.2	49
124	Additiveâ€Assisted Hotâ€Casting Free Fabrication of Dionâ€"Jacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. Solar Rrl, 2020, 4, 2000087.	3.1	49
125	Mitigating Dark Current for High-Performance Near-Infrared Organic Photodiodes via Charge Blocking and Defect Passivation. ACS Applied Materials & Interfaces, 2021, 13, 16766-16774.	4.0	49
126	Interfacing Solutionâ€Grown C₆₀ and (3â€Pyrrolinium)(CdCl₃) Single Crystals for Highâ€Mobility Transistorâ€Based Memory Devices. Advanced Materials, 2015, 27, 4476-4480.	11.1	48

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127	Low-bandgap mixed tinâ€"lead iodide perovskite with large grains for high performance solar cells. Journal of Materials Chemistry A, 2018, 6, 13090-13095.	5.2	47
128	Solution-grown aligned C60 single-crystals for field-effect transistors. Journal of Materials Chemistry C, 2014, 2, 3617.	2.7	46
129	Enhancement of intra- and inter-molecular Ï€-conjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. Materials Chemistry Frontiers, 2018, 2, 2006-2012.	3.2	46
130	Engineering the underlying surface to manipulate the growth of 2D perovskites for highly efficient solar cells. Journal of Materials Chemistry A, 2019, 7, 14027-14032.	5.2	46
131	Modulate Organicâ€Metal Oxide Heterojunction via [1,6] Azafulleroid for Highly Efficient Organic Solar Cells. Advanced Materials, 2016, 28, 7269-7275.	11.1	45
132	Improved photon-to-electron response of ternary blend organic solar cells with a low band gap polymer sensitizer and interfacial modification. Journal of Materials Chemistry A, 2016, 4, 1702-1707.	5.2	45
133	Roll-coating fabrication of flexible large area small molecule solar cells with power conversion efficiency exceeding 1%. Journal of Materials Chemistry A, 2014, 2, 19809-19814.	5.2	44
134	Controlled crystallization of CH3NH3PbI3 films for perovskite solar cells by various PbI2(X) complexes. Solar Energy Materials and Solar Cells, 2016, 155, 331-340.	3.0	43
135	A high-quality round-shaped monolayer MoS₂domain and its transformation. Nanoscale, 2016, 8, 219-225.	2.8	43
136	Simple Near-Infrared Electron Acceptors for Efficient Photovoltaics and Sensitive Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 39515-39523.	4.0	43
137	Semiconductive Covalent Organic Frameworks: Structural Design, Synthesis, and Application. Small Structures, 2020, 1, 2000021.	6.9	43
138	Conjugated Polymers for Photon-to-Electron and Photon-to-Fuel Conversions. ACS Applied Polymer Materials, 2021, 3, 60-92.	2.0	43
139	High efficiency hybrid solar cells using post-deposition ligand exchange by monothiols. Physical Chemistry Chemical Physics, 2012, 14, 12094.	1.3	42
140	A diketopyrrolopyrrole molecule end-capped with a furan-2-carboxylate moiety: the planarity of molecular geometry and photovoltaic properties. Journal of Materials Chemistry A, 2014, 2, 6589.	5.2	42
141	Preparation of Nano-Structured Polyaniline Composite Film via â€œCarbon Nanotubes Seedingâ€•Approach and its Gas-Response Studies. Macromolecular Materials and Engineering, 2006, 291, 75-82.	1.7	41
142	Two-dimensional inverted planar perovskite solar cells with efficiency over 15% <i>via</i> solvent and interface engineering. Journal of Materials Chemistry A, 2019, 7, 18980-18986.	5.2	41
143	Marcus Hole Transfer Governs Charge Generation and Device Operation in Nonfullerene Organic Solar Cells. ACS Energy Letters, 2021, 6, 2971-2981.	8.8	41
144	Highâ€Efficiency ITOâ€Free Organic Photovoltaics with Superior Flexibility and Upscalability. Advanced Materials, 2022, 34, e2200044.	11.1	41

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145	Incorporation of ester groups into low band-gap diketopyrrolopyrrole containing polymers for solar cell applications. Journal of Materials Chemistry, 2012, 22, 15710.	6.7	40
146	Boosting photovoltaic performance of ternary organic solar cells by integrating a multi-functional guest acceptor. Nano Energy, 2021, 90, 106538.	8.2	40
147	Conformation Locking of Simple Nonfused Electron Acceptors Via Multiple Intramolecular Noncovalent Bonds to Improve the Performances of Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 819-827.	2.5	40
148	Graphene Nucleation Preferentially at Oxygenâ€Rich Cu Sites Rather Than on Pure Cu Surface. Advanced Materials, 2015, 27, 6404-6410.	11.1	39
149	Solutionâ€Grown Organic Singleâ€Crystal Fieldâ€Effect Transistors with Ultrahigh Response to Visibleâ€Blind and Deep UV Signals. Advanced Electronic Materials, 2015, 1, 1500136.	2.6	39
150	An aqueous solution-processed CuO_X film as an anode buffer layer for efficient and stable organic solar cells. Journal of Materials Chemistry A, 2016, 4, 5130-5136.	5.2	39
151	Interfacial engineering enables high efficiency with a high open-circuit voltage above 1.23ÂV in 2D perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 18010-18017.	5.2	39
152	An inverted planar solar cell with 13% efficiency and a sensitive visible light detector based on orientation regulated 2D perovskites. Journal of Materials Chemistry A, 2018, 6, 24633-24640.	5.2	38
153	Conductive fullerene surfactants <i>via</i> anion doping as cathode interlayers for efficient organic and perovskite solar cells. Organic Chemistry Frontiers, 2018, 5, 2845-2851.	2.3	38
154	Toward Highly Thermal Stable Perovskite Solar Cells by Rational Design of Interfacial Layer. IScience, 2019, 22, 534-543.	1.9	38
155	Highâ€Performance Organic Solar Modules via Bilayerâ€Mergedâ€Annealing Assisted Blade Coating. Advanced Materials, 2022, 34, e2110569.	11.1	38
156	Solution-Processed 8-Hydroquinolatolithium as Effective Cathode Interlayer for High-Performance Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 9254-9261.	4.0	37
157	Comparison of additive amount used in spin-coated and roll-coated organic solar cells. Journal of Materials Chemistry A, 2014, 2, 19542-19549.	5.2	36
158	Silver nanowireâ€“graphene hybrid transparent conductive electrodes for highly efficient inverted organic solar cells. Nanotechnology, 2017, 28, 305402.	1.3	36
159	High efficient UV-A photodetectors based on monodispersed ligand-capped TiO2 nanocrystals and polyfluorene hybrids. Polymer, 2010, 51, 3736-3743.	1.8	35
160	Direct observation of microscopic photoinduced charge redistribution on TiO2 film sensitized by chloroaluminum phthalocyanine and perylenediimide. Applied Physics Letters, 2003, 83, 1896-1898.	1.5	33
161	Three-dimensional molecular donors combined with polymeric acceptors for high performance fullerene-free organic photovoltaic devices. Journal of Materials Chemistry A, 2015, 3, 22162-22169.	5.2	33
162	Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Nonâ€Fullerene Acceptors with Quinoxaline as the Core. ChemSusChem, 2021, 14, 3599-3606.	3.6	33

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163	Diketo-pyrrolo-pyrrole-Based Medium Band Gap Copolymers for Efficient Plastic Solar Cells: Morphology, Transport, and Composition-Dependent Photovoltaic Behavior. Journal of Physical Chemistry C, 2011, 115, 11282-11292.	1.5	32
164	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donorâ€"acceptor polymers. Journal of Materials Chemistry A, 2013, 1, 1785-1793.	5.2	32
165	Alignment and patterning of organic single crystals for field-effect transistors. Chinese Chemical Letters, 2016, 27, 1421-1428.	4.8	32
166	Achieving high-performance thick-film perovskite solar cells with electron transporting Bingel fullerenes. Journal of Materials Chemistry A, 2018, 6, 15495-15503.	5.2	32
167	Highly efficient and thermal stable guanidinium-based two-dimensional perovskite solar cells via partial substitution with hydrophobic ammonium. Science China Chemistry, 2019, 62, 859-865.	4.2	32
168	Merged interface construction toward ultra-low <i>V</i>_{oc} loss in inverted two-dimensional Dionâ€"Jacobson perovskite solar cells with efficiency over 18%. Journal of Materials Chemistry A, 2021, 9, 12566-12573.	5.2	32
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