Yiwang Chen

List of Publications by Year
in descending order

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		13068	24915
577	21,347	68	109
papers	citations	h-index	g-index

583	583	583	19014
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual Triplet Sensitization Strategy for Efficient and Stable Tripletâ€“Triplet Annihilation Upconversion Perovskite Solar Cells. CCS Chemistry, 2023, 5, 729-740.	4.6	23
2	Defect Passivation Effect of Chemical Groups on Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34161-34170.	4.0	33
3	Realizing high-performance organic solar cells through precise control of HOMO driving force based on ternary alloy strategy. Journal of Energy Chemistry, 2022, 65, 133-140.	7.1	18
4	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. Advanced Functional Materials, 2022, 32, 2108107.	7.8	90
5	Allâ€Green Solventâ€Processed Planar Heterojunction Organic Solar Cells with Outstanding Power Conversion Efficiency of 16%. Advanced Functional Materials, 2022, 32, 2107567.	7.8	58
6	A Regularityâ€Based Fullerene Interfacial Layer for Efficient and Stable Perovskite Solar Cells via Bladeâ€Coating. Advanced Functional Materials, 2022, 32, 2105917.	7.8	14
7	Manipulating the Interlayer Spacing of 3D MXenes with Improved Stability and Zincâ€Ion Storage Capability. Advanced Functional Materials, 2022, 32, 2109524.	7.8	97
8	Novel Narrow Bandgap Terpolymer Donors Enables Record Performance for Semitransparent Organic Solar Cells Based on Allâ€Narrow Bandgap Semiconductors. Advanced Functional Materials, 2022, 32, .	7.8	52
9	Iron-based nanocomposites implanting in N, P Co-doped carbon nanosheets as efficient oxygen reduction electrocatalysts for Zn-Air batteries. Composites Communications, 2022, 29, 100994.	3.3	16
10	Printable and stable all-polymer solar cells based on non-conjugated polymer acceptors with excellent mechanical robustness. Science China Chemistry, 2022, 65, 182-189.	4.2	31
11	Inhibiting excessive molecular aggregation to achieve highly efficient and stabilized organic solar cells by introducing a star-shaped nitrogen heterocyclic-ring acceptor. Energy and Environmental Science, 2022, 15, 384-394.	15.6	62
12	Optimizing Microenvironment of Asymmetric N,Sâ€Coordinated Singleâ€Atom Fe via Axial Fifth Coordination toward Efficient Oxygen Electroreduction. Small, 2022, 18, e2105387.	5.2	72
13	Diammonium Molecular Configurationâ€Induced Regulation of Crystal Orientation and Carrier Dynamics for Highly Efficient and Stable 2D/3D Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	68
14	Diammonium Molecular Configurationâ€Induced Regulation of Crystal Orientation and Carrier Dynamics for Highly Efficient and Stable 2D/3D Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	28
15	Colloidal chemistry in perovskite precursor solution. Science Bulletin, 2022, 67, 561-564.	4.3	12
16	Acetic Acidâ€Assisted Synergistic Modulation of Crystallization Kinetics and Inhibition of Sn²⁺ Oxidation in Tinâ€Based Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, 2109631.	7.8	95
17	Highly efficient and stable ZnO-based MA-free perovskite solar cells via overcoming interfacial mismatch and deprotonation reaction. Chemical Engineering Journal, 2022, 431, 134235.	6.6	28
18	Recent Developments of nâ€Type Organic Thermoelectric Materials: Influence of Structure Modification on Molecule Arrangement and Solution Processing. ChemSusChem, 2022, 15, .	3.6	13

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19	Highâ€Energy Aqueous Asymmetric Supercapacitors via Synergistic Design of Electrodes Derived from Hierarchical Vanadium Dioxide Nanocomposites. ChemElectroChem, 2022, 9, .	1.7	0
20	Deciphering the Precursorâ€“Performance Relationship of Singleâ€Atom Iron Oxygen Electroreduction Catalysts via Isomer Engineering. Small, 2022, 18, e2106122.	5.2	9
21	High Energy and Power Zinc Ion Capacitors: A Dual-Ion Adsorption and Reversible Chemical Adsorption Coupling Mechanism. ACS Nano, 2022, 16, 2877-2888.	7.3	87
22	The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. Chemical Engineering Journal, 2022, 435, 135020.	6.6	14
23	Manipulating the electronic configuration of Feâ€“N₄sites by an electron-withdrawing/donating strategy with improved oxygen electroreduction performance. Materials Chemistry Frontiers, 2022, 6, 1209-1217.	3.2	10
24	Advancements in organic small molecule hole-transporting materials for perovskite solar cells: past and future. Journal of Materials Chemistry A, 2022, 10, 5044-5081.	5.2	69
25	Surface microstructural engineering of silicone elastomers for high performance adhesive surface-enabled mechanical energy harvesters. Journal of Materials Chemistry A, 2022, 10, 9643-9654.	5.2	5
26	A general enlarging shear impulse approach to green printing large-area and efficient organic photovoltaics. Energy and Environmental Science, 2022, 15, 2130-2138.	15.6	38
27	Simultaneously Integrate Iron Single Atom and Nanocluster Triggered Tandem Effect for Boosting Oxygen Electroreduction. Small, 2022, 18, e2107225.	5.2	72
28	Uncovering the Mechanism of Poly(ionicâ€liquid)s Multiple Inhibition of Ion Migration for Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	36
29	Nonfused Ring Electron Acceptors for Efficient Organic Solar Cells Enabled by Multiple Intramolecular Conformational Locks. ACS Applied Energy Materials, 2022, 5, 5136-5145.	2.5	16
30	Oligomerâ€Assisted Photoactive Layers Enable >18â€‰% Efficiency of Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	43
31	N-Doped Carbon Coated SnS/rGO Composite with Superior Cyclic Stability as Anode for Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2022, 61, 4339-4347.	1.8	4
32	Reducing Photovoltaic Property Loss of Organic Solar Cells in Bladeâ€Coating by Optimizing Microâ€Nanomorphology via Nonhalogenated Solvent. Advanced Energy Materials, 2022, 12, .	10.2	45
33	Ferroelectric Polymer Drives Performance Enhancement of Nonâ€fullerene Organic Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	3
34	Ferroelectric Polymer Drives Performance Enhancement of Nonâ€fullerene Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	29
35	Pseudoâ€Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows. Advanced Materials, 2022, 34, e2201604.	11.1	30
36	Halogen-free donor polymers based on dicyanobenzotriazole for additive-free organic solar cells. Chemical Engineering Journal, 2022, 442, 136068.	6.6	6

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37	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
38	Rational Regulation of the Molecular Aggregation Enables A Facile Bladeâ€Coating Process of Largeâ€area Allâ€Polymer Solar Cells with Record Efficiency. Small, 2022, 18, e2200734.	5.2	14
39	Hierarchically nitrogen-doped mesoporous carbon nanospheres with dual ion adsorption capability for superior rate and ultra-stable zinc ion hybrid supercapacitors. Science China Materials, 2022, 65, 2401-2411.	3.5	17
40	Elimination of Interfacial Lattice Mismatch and Detrimental Reaction by Selfâ€Assembled Layer Dualâ€Passivation for Efficient and Stable Inverted Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	75
41	Regulation of Crystallinity and Vertical Phase Separation Enables Highâ€Efficiency Thick Organic Solar Cells. Advanced Functional Materials, 2022, 32, .	7.8	29
42	A Bionic Interface to Suppress the Coffeeâ€Ring Effect for Reliable and Flexible Perovskite Modules with a Nearâ€90% Yield Rate. Advanced Materials, 2022, 34, e2201840.	11.1	54
43	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
44	Breaking the Scaling Relationship Limit: From Single-Atom to Dual-Atom Catalysts. Accounts of Materials Research, 2022, 3, 584-596.	5.9	73
45	Quantum Dot Hybridization of Piezoelectric Polymer Films for Non-Transfer Integration of Flexible Biomechanical Energy Harvesters. ACS Applied Materials & Interfaces, 2022, 14, 29934-29944.	4.0	4
46	Reactive Inhibition Strategy for Tripleâ€cation Mixedâ€halide Perovskite Ink with Prolonged Shelfâ€life. Advanced Energy Materials, 2022, 12, .	10.2	16
47	NIR Photodetectors with Highly Efficient Detectivity Enabled by 2D Fluorinated Dithienopicenocarbazoleâ€Based Ultraâ€Narrow Bandgap Acceptors. Advanced Functional Materials, 2022, 32, .	7.8	24
48	AIE Molecules UVâ€Filtering Effect Improves the Photostability of Organic Solar Cells. Advanced Optical Materials, 2022, 10, .	3.6	9
49	3D Networkâ€Assisted Crystallization for Fully Printed Perovskite Solar Cells with Superior Irradiation Stability. Advanced Functional Materials, 2022, 32, .	7.8	8
50	High molecular weight polymeric acceptors based on semi-perfluoroalkylated perylene diimides for pseudo-planar heterojunction all-polymer organic solar cells. Polymer, 2022, 255, 125114.	1.8	5
51	Cementitious grain-boundary passivation for flexible perovskite solar cells with superior environmental stability and mechanical robustness. Science Bulletin, 2021, 66, 527-535.	4.3	54
52	1,2,4-Triazoline-3,5-dione substituted perylene diimides as near infrared acceptors for bulk heterojunction organic solar cells. Dyes and Pigments, 2021, 187, 109108.	2.0	8
53	Recent Advances of PEDOT in Flexible Energy Conversion and Storage Devices. Acta Chimica Sinica, 2021, 79, 853.	0.5	3
54	A novel AIE molecule as a hole transport layer enables efficient and stable perovskite solar cells. Chemical Communications, 2021, 57, 4015-4018.	2.2	10

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55	Revealing Morphology Evolution in Highly Efficient Bulk Heterojunction and Pseudoâ€Planar Heterojunction Solar Cells by Additives Treatment. Advanced Energy Materials, 2021, 11, 2003390.	10.2	106
56	An in situ bifacial passivation strategy for flexible perovskite solar module with mechanical robustness by roll-to-roll fabrication. Journal of Materials Chemistry A, 2021, 9, 5759-5768.	5.2	48
57	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. Chemical Communications, 2021, 57, 6320-6323.	2.2	12
58	Coupling of EDLC and the reversible redox reaction: oxygen functionalized porous carbon nanosheets for zinc-ion hybrid supercapacitors. Journal of Materials Chemistry A, 2021, 9, 15404-15414.	5.2	62
59	Pyrolysis-free polymer-based oxygen electrocatalysts. Energy and Environmental Science, 2021, 14, 2789-2808.	15.6	55
60	Tremendously enhanced photocurrent enabled by tripletâ€“triplet annihilation up-conversion for high-performance perovskite solar cells. Energy and Environmental Science, 2021, 14, 3532-3541.	15.6	29
61	Narrow band-gap materials with overlapping absorption simultaneously increase the open circuit voltage and average visible transmittance of semitransparent organic solar cells. Journal of Materials Chemistry A, 2021, 9, 5711-5719.	5.2	34
62	Highly porous Mn₃O₄ nanosheets with in situ coated carbon enabling fully screen-printed planar supercapacitors with remarkable volumetric performance. Journal of Materials Chemistry A, 2021, 9, 4273-4280.	5.2	11
63	Structural similarity induced improvement in the performance of organic solar cells based on novel terpolymer donors. Journal of Materials Chemistry A, 2021, 9, 9238-9247.	5.2	32
64	Green quasi-solid-state planar asymmetric supercapacitors with high working voltage and extraordinary volumetric energy density. Journal of Materials Chemistry A, 2021, 9, 14363-14371.	5.2	14
65	Enriching redox active sites by interconnected nanowalls-like nickel cobalt phospho-sulfide nanosheets for high performance supercapacitors. Chinese Chemical Letters, 2021, 32, 3553-3557.	4.8	14
66	Evaporationâ€Free Organic Solar Cells with High Efficiency Enabled by Dry and Nonimmersive Sintering Strategy. Advanced Functional Materials, 2021, 31, 2010764.	7.8	8
67	Novel polymer acceptors achieving 10.18% efficiency for all-polymer solar cells. Journal of Energy Chemistry, 2021, 53, 63-68.	7.1	23
68	Rapid Microwave-Assisted Synthesis of SnO₂ Quantum Dots for Efficient Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 1887-1893.	2.5	37
69	Over 70% Fill Factor of Allâ€Polymer Solar Cells Guided by the Law of Similarity and Intermiscibility. Solar Rrl, 2021, 5, 2100019.	3.1	6
70	Enabling 2.4-V aqueous supercapacitors through the rational design of an integrated electrode of hollow vanadium trioxide/carbon nanospheres. Science China Materials, 2021, 64, 2163-2172.	3.5	18
71	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. Science China Chemistry, 2021, 64, 834-843.	4.2	21
72	Ionic Liquid-Induced Ostwald Ripening Effect for Efficient and Stable Tin-Based Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 15420-15428.	4.0	34

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73	Regulation of the Miscibility of the Active Layer by Random Terpolymer Acceptors to Realize High-Performance All-Polymer Solar Cells. ACS Applied Polymer Materials, 2021, 3, 1923-1931.	2.0	10
74	Theoretical Study of Excited State Charge Transfer Characteristics based on Aâ€“Dâ€“A and Aâ€“DAâ€²Dâ€“A Type Nonfullerene Acceptors. Journal of Physical Chemistry C, 2021, 125, 10250-10259.	1.5	40
75	Wearable Tinâ€Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. Angewandte Chemie - International Edition, 2021, 60, 14693-14700.	7.2	53
76	Wearable Tinâ€Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. Angewandte Chemie, 2021, 133, 14814-14821.	1.6	12
77	Highâ€Efficiency (16.93%) Pseudoâ€Planar Heterojunction Organic Solar Cells Enabled by Binary Additives Strategy. Advanced Functional Materials, 2021, 31, 2102291.	7.8	68
78	High-Î¤ La2O3 as an anode modifier to reduce leakage current for efficient perovskite solar cells. Surfaces and Interfaces, 2021, 24, 101102.	1.5	3
79	Directional Crystallization by Floating Self-Assembly for Efficient and Stable Tin-based Perovskite Solar Cells. Chemistry of Materials, 2021, 33, 4362-4372.	3.2	20
80	Bending-stability Interfacial Layer as Dual Electron Transport Layer for Flexible Organic Photovoltaics. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1441-1447.	2.0	23
81	Layer-by-Layer Solution-Processed Organic Solar Cells with Perylene Diimides as Acceptors. ACS Applied Materials & Interfaces, 2021, 13, 29876-29884.	4.0	14
82	Current Development toward Commercialization of Metalâ€Halide Perovskite Photovoltaics. Advanced Optical Materials, 2021, 9, 2100390.	3.6	15
83	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 19053-19057.	7.2	43
84	Molecular Control of Carbonâ€Based Oxygen Reduction Electrocatalysts through Metal Macrocyclic Complexes Functionalization. Advanced Energy Materials, 2021, 11, 2100866.	10.2	60
85	Spontaneous Formation of Upper Gradient 2D Structure for Efficient and Stable Quasiâ€2D Perovskites. Advanced Materials, 2021, 33, e2101823.	11.1	36
86	Releasing Nanocapsules for Highâ€Throughput Printing of Stable Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2101291.	10.2	18
87	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. Angewandte Chemie, 2021, 133, 19201-19205.	1.6	2
88	Thickness-Insensitive Anode Interface Layer for High-Efficiency Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 39844-39853.	4.0	11
89	Recent Developments of Microenvironment Engineering of Singleâ€Atom Catalysts for Oxygen Reduction toward Desired Activity and Selectivity. Advanced Functional Materials, 2021, 31, 2103857.	7.8	77
90	Electrodeposition of poly(3,4-ethylenedioxythiophene) coated manganese dioxide nanospheres for flexible asymmetric planar supercapacitor with superior energy density. Journal of Power Sources, 2021, 506, 230176.	4.0	20

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91	A Highly Tolerant Printing for Scalable and Flexible Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2107726.	7.8	43
92	Novel efficient accptor1-acceptor2 type copolymer donors: Vinyl induced planar geometry and high performance organic solar cells. Chemical Engineering Journal, 2021, 419, 129532.	6.6	12
93	Highly crystalline acceptor materials based on benzodithiophene with different amount of fluorine substitution on alkoxyphenyl conjugated side chains for organic photovoltaics. Materials Reports Energy, 2021, 1, 100059.	1.7	2
94	Molecular crowding agents engineered to make bioinspired electrolytes for high-voltage aqueous supercapacitors. EScience, 2021, 1, 83-90.	25.0	69
95	Obstructing interfacial reaction between NiOx and perovskite to enable efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2021, 426, 131357.	6.6	50
96	Minimization of ion transport resistance: diblock copolymer micelle derived nitrogen-doped hierarchically porous carbon spheres for superior rate and power Zn-ion capacitors. Journal of Materials Chemistry A, 2021, 9, 8435-8443.	5.2	45
97	Fast assembly of MXene hydrogels by interfacial electrostatic interaction for supercapacitors. Chemical Communications, 2021, 57, 10731-10734.	2.2	24
98	Toward efficient perovskite solar cells by planar imprint for improved perovskite film quality and granted bifunctional barrier. Journal of Materials Chemistry A, 2021, 9, 16178-16186.	5.2	21
99	Regulating Favorable Morphology Evolution by a Simple Liquid-Crystalline Small Molecule Enables Organic Solar Cells with over 17% Efficiency and a Remarkable J_{sc} of 26.56 mA/cm². Chemistry of Materials, 2021, 33, 430-440.	3.2	49
100	Reply to the â€˜Comment on â€œTremendously enhanced photocurrent enabled by tripletâ€“triplet annihilation up-conversion for high-performance perovskite solar cellsâ€â€™ by L. Nienhaus and T. W. Schmidt, Energy Environ. Sci., 2021, 14, 10.1039/D1EE01446C. Energy and Environmental Science, 2021, 14, 6053-6054.	15.6	2
101	A Biomimetic Selfâ€Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. Advanced Functional Materials, 2021, 31, 2106460.	7.8	54
102	Enhanced Efficiency and Excellent Thermostability in Organic Photovoltaics via Ternary Strategy with Twisted Conjugated Compound. Small, 2021, 17, e2103537.	5.2	12
103	Synthesis and property study of phthalocyanine tetraimides as solution processable electron acceptors. Dyes and Pigments, 2020, 173, 107980.	2.0	6
104	Flexible perovskite solar cells: device design and perspective. Flexible and Printed Electronics, 2020, 5, 013002.	1.5	17
105	Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. Carbon, 2020, 160, 80-87.	5.4	75
106	Subnaphthalocyanine triimides: potential three-dimensional solution processable acceptors for organic solar cells. Journal of Materials Chemistry C, 2020, 8, 2186-2195.	2.7	12
107	Lowâ€Temperatureâ€Processed WO_x as Electron Transfer Layer for Planar Perovskite Solar Cells Exceeding 20% Efficiency. Solar Rrl, 2020, 4, 1900499.	3.1	36
108	Boosting Oxygen Reduction of Single Iron Active Sites via Geometric and Electronic Engineering: Nitrogen and Phosphorus Dual Coordination. Journal of the American Chemical Society, 2020, 142, 2404-2412.	6.6	680

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109	Regulating Voltage Window and Energy Density of Aqueous Asymmetric Supercapacitors by Pineconeâ€Like Hollow Fe₂O₃/MnO₂ Nanoâ€Heterostructure. Advanced Materials Interfaces, 2020, 7, 1901729.	1.9	35
110	Stable Triple Cation Perovskite Precursor for Highly Efficient Perovskite Solar Cells Enabled by Interaction with 18C6 Stabilizer. Advanced Functional Materials, 2020, 30, 1908613.	7.8	65
111	Recent advances of computational chemistry in organic solar cell research. Journal of Materials Chemistry C, 2020, 8, 15920-15939.	2.7	59
112	A General Electrodeposition Strategy for Fabricating Ultrathin Nickel Cobalt Phosphate Nanosheets with Ultrahigh Capacity and Rate Performance. ACS Nano, 2020, 14, 14201-14211.	7.3	120
113	InnenrÃ¼cktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Over	1.6	1
114	Printable and Largeâ€Area Organic Solar Cells Enabled by a Ternary Pseudoâ€Planar Heterojunction Strategy. Advanced Functional Materials, 2020, 30, 2003223.	7.8	59
115	Engineering efficient bifunctional electrocatalysts for rechargeable zincâ€“air batteries by confining Feâ€“Coâ€“Ni nanoalloys in nitrogen-doped carbon nanotube@nanosheet frameworks. Journal of Materials Chemistry A, 2020, 8, 25919-25930.	5.2	58
116	Understanding the Mechanism between Antisolvent Dripping and Additive Doping Strategies on the Passivation Effects in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 56151-56160.	4.0	35
117	Isomeric Effect of Wide Bandgap Polymer Donors with High Crystallinity to Achieve Efficient Polymer Solar Cells. Macromolecular Rapid Communications, 2020, 41, e2000454.	2.0	10
118	Covalently Sandwiching MXene by Conjugated Microporous Polymers with Excellent Stability for Supercapacitors. Small Methods, 2020, 4, 2000434.	4.6	57
119	Atomic Layer Deposition of Metal Oxides in Perovskite Solar Cells: Present and Future. Small Methods, 2020, 4, 2000588.	4.6	21
120	Concerted regulation on vertical orientation and film quality of two-dimensional ruddlesden-popper perovskite layer for efficient solar cells. Science China Chemistry, 2020, 63, 1675-1683.	4.2	9
121	Printable Hole Transport Layer for 1.0 cm² Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 52028-52037.	4.0	21
122	Hole transport layers for organic solar cells: recent progress and prospects. Journal of Materials Chemistry A, 2020, 8, 11478-11492.	5.2	99
123	Stretchable Perovskite Solar Cells with Recoverable Performance. Angewandte Chemie - International Edition, 2020, 59, 16602-16608.	7.2	122
124	Stretchable Perovskite Solar Cells with Recoverable Performance. Angewandte Chemie, 2020, 132, 16745.	1.6	8
125	Wide Band-gap Two-dimension Conjugated Polymer Donors with Different Amounts of Chlorine Substitution on Alkoxyphenyl Conjugated Side Chains for Non-fullerene Polymer Solar Cells. Chinese Journal of Polymer Science (English Edition), 2020, 38, 797-805.	2.0	15
126	Reducing Energy Loss and Morphology Optimization Manipulated by Molecular Geometry Engineering for Heteroâ€junction Organic Solar Cells. Chinese Journal of Chemistry, 2020, 38, 1553-1559.	2.6	19

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127	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. Nature Communications, 2020, 11, 3016.	5.8	173
128	Twoâ€Dimension Conjugated Acceptors Based on Benzodi(cyclopentadithiophene) Core with Thiopheneâ€Fused Ending Group for Efficient Polymer Solar Cells. Solar Rrl, 2020, 4, 2000071.	3.1	12
129	Znâ€“Air Batteries: Simultaneously Integrating Single Atomic Cobalt Sites and Co₉S₈ Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Znâ€“Air Batteries to Drive Water Splitting (Small 10/2020). Small, 2020, 16, 2070053.	5.2	1
130	Stabilized and Operational PbI₂ Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. Journal of Physical Chemistry C, 2020, 124, 8129-8139.	1.5	23
131	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. Materials Chemistry Frontiers, 2020, 4, 1507-1518.	3.2	22
132	An Effective Method for Recovering Nonradiative Recombination Loss in Scalable Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2000417.	7.8	31
133	Regulated Crystallization of Efficient and Stable Tin-Based Perovskite Solar Cells via a Self-Sealing Polymer. ACS Applied Materials & Interfaces, 2020, 12, 14049-14056.	4.0	95
134	A generalized one-step in situ formation of metal sulfide/reduced graphene oxide nanosheets toward high-performance supercapacitors. Science China Materials, 2020, 63, 1898-1909.	3.5	48
135	Preparation of efficient inverted tin-based perovskite solar cells via the bidentate coordination effect of 8-hydroxyquinoline. Chemical Communications, 2020, 56, 4007-4010.	2.2	56
136	Highâ€Performance Pseudoplanar Heterojunction Ternary Organic Solar Cells with Nonfullerene Alloyed Acceptor. Advanced Functional Materials, 2020, 30, 1909760.	7.8	89
137	Polyolefin Elastomer as the Anode Interfacial Layer for Improved Mechanical and Air Stabilities in Nonfullerene Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 10706-10716.	4.0	24
138	Simultaneously Integrating Single Atomic Cobalt Sites and Co₉S₈ Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Znâ€“Air Batteries to Drive Water Splitting. Small, 2020, 16, e1906735.	5.2	98
139	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. Advanced Functional Materials, 2020, 30, 2000456.	7.8	164
140	Introducing Porphyrin Units by Random Copolymerization Into NDI-Based Acceptor for All Polymer Solar Cells. Frontiers in Chemistry, 2020, 8, 310.	1.8	7
141	An efficient and stable tin-based perovskite solar cell passivated by aminoguanidine hydrochloride. Journal of Materials Chemistry C, 2020, 8, 7786-7792.	2.7	25
142	â€œDouble-Acceptor-Typeâ€•Random Conjugated Terpolymer Donors for Additive-Free Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 20741-20749.	4.0	15
143	Controlling Crystal Growth via an Autonomously Longitudinal Scaffold for Planar Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000617.	11.1	118
144	Thioether Bond Modification Enables Boosted Photovoltaic Performance of Nonfullerene Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 32218-32224.	4.0	16

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145	A General Approach for Labâ€toâ€Manufacturing Translation on Flexible Organic Solar Cells. Advanced Materials, 2019, 31, e1903649.	11.1	114
146	Construction of facile ion and electron diffusion by hierarchical core-branch Zn substituted Niâ€“Coâ€“S nanocomposite for high-performance asymmetric supercapacitors. Carbon, 2019, 153, 531-538.	5.4	58
147	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. Langmuir, 2019, 35, 9713-9720.	1.6	20
148	Hierarchical Nanosheets/Walls Structured Carbonâ€Coated Porous Vanadium Nitride Anodes Enable Wideâ€Voltageâ€Window Aqueous Asymmetric Supercapacitors with High Energy Density. Advanced Science, 2019, 6, 1900550.	5.6	61
149	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 26213-26221.	4.0	38
150	Waterâ€Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. Advanced Functional Materials, 2019, 29, 1902629.	7.8	89
151	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. Joule, 2019, 3, 2205-2218.	11.7	175
152	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. Chemistry of Materials, 2019, 31, 8810-8819.	3.2	12
153	Flexible Solar Cells: A General Approach for Labâ€toâ€Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). Advanced Materials, 2019, 31, 1970294.	11.1	5
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