

Xiaodan Zhang

List of Publications by Year in descending order

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118
papers

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120
all docs

120
docs citations

120
times ranked

4301
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the Development of Monolithic Perovskite/Silicon Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, 2003628.	19.5	72
2	UV light absorbers executing synergistic effects of passivating defects and improving photostability for efficient perovskite photovoltaics. <i>Journal of Energy Chemistry</i> , 2022, 67, 138-146.	12.9	19
3	Reduced defects and enhanced V _{bi} in perovskite absorbers through synergetic passivating effect using 4-methoxyphenylacetic acid. <i>Journal of Power Sources</i> , 2022, 518, 230734.	7.8	11
4	Integrated and Unassisted Solar Water-Splitting System by Monolithic Perovskite/Silicon Tandem Solar Cell. <i>Solar Rrl</i> , 2022, 6, 2100748.	5.8	8
5	2D perovskite or organic material matter? Targeted growth for efficient perovskite solar cells with efficiency exceeding 24%. <i>Nano Energy</i> , 2022, 94, 106914.	16.0	31
6	Perovskite-based tandem solar cells gallop ahead. <i>Joule</i> , 2022, 6, 509-511.	24.0	13
7	Towards bifacial silicon heterojunction solar cells with reduced TCO use. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 750-762.	8.1	19
8	Controlling the Crystallographic Orientation of Sb ₂ Se ₃ Film for Efficient Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2022, 6, .	5.8	8
9	Suppressed recombination for monolithic inorganic perovskite/silicon tandem solar cells with an approximate efficiency of 23%. <i>EScience</i> , 2022, 2, 339-346.	41.6	78
10	Potassium chloride templated \pm -FAPbI ₃ perovskite crystal growth for efficient planar perovskite solar cells. <i>Organic Electronics</i> , 2022, 106, 106527.	2.6	5
11	CsPbCl ₃ Cluster-Widened Bandgap and Inhibited Phase Segregation in a Wide-Bandgap Perovskite and its Application to NiO _x -Based Perovskite/Silicon Tandem Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2201451.	21.0	29
12	Efficient and stable noble-metal-free catalyst for acidic water oxidation. <i>Nature Communications</i> , 2022, 13, 2294.	12.8	89
13	Tin dioxide buffer layer-assisted efficiency and stability of wide-bandgap inverted perovskite solar cells. <i>Journal of Semiconductors</i> , 2022, 43, 052201.	3.7	5
14	Effects of guanidinium cations on structural, optoelectronic and photovoltaic properties of perovskites. <i>Journal of Energy Chemistry</i> , 2021, 58, 48-54.	12.9	21
15	Encapsulation of perovskite solar cells for enhanced stability: Structures, materials and characterization. <i>Journal of Power Sources</i> , 2021, 485, 229313.	7.8	82
16	Insights into the effect of bromine-based organic salts on the efficiency and stability of wide bandgap perovskite. <i>Nano Select</i> , 2021, 2, 615-623.	3.7	0
17	Humidity-Resistant Flexible Perovskite Solar Cells with Over 20% Efficiency. <i>Solar Rrl</i> , 2021, 5, 2000795.	5.8	19
18	Spacer Engineering Using Aromatic Formamidinium in 2D/3D Hybrid Perovskites for Highly Efficient Solar Cells. <i>ACS Nano</i> , 2021, 15, 7811-7820.	14.6	99

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19	Cobalt Chloride Hexahydrate Assisted in Reducing Energy Loss in Perovskite Solar Cells with Record Open-Circuit Voltage of 1.20 V. <i>ACS Energy Letters</i> , 2021, 6, 2121-2128.	17.4	117
20	Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics. <i>Advanced Energy Materials</i> , 2021, 11, 2101082.	19.5	21
21	A facile light managing strategy in inverted perovskite solar cells. <i>JPhys Energy</i> , 2021, 3, 035004.	5.3	3
22	High-Performance and Stable Perovskite-Based Photoanode Encapsulated by Blanket-Cover Method. <i>ACS Applied Energy Materials</i> , 2021, 4, 7526-7534.	5.1	11
23	Composite electron transport layer for efficient N-I-P type monolithic perovskite/silicon tandem solar cells with high open-circuit voltage. <i>Journal of Energy Chemistry</i> , 2021, 63, 461-467.	12.9	20
24	Modulated Crystallization and Reduced V_{OC} Deficit of Mixed Lead-Tin Perovskite Solar Cells with Antioxidant Caffeic Acid. <i>ACS Energy Letters</i> , 2021, 6, 2907-2916.	17.4	68
25	Micro-Electrode with Fast Mass Transport for Enhancing Selectivity of Carbonaceous Products in Electrochemical CO_2 Reduction. <i>Advanced Functional Materials</i> , 2021, 31, 2103966.	14.9	16
26	Manipulated Crystallization and Passivated Defects for Efficient Perovskite Solar Cells via Addition of Ammonium Iodide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34053-34063.	8.0	18
27	Low-Temperature Oxide/Metal/Oxide Multilayer Films as Highly Transparent Conductive Electrodes for Optoelectronic Devices. <i>ACS Applied Energy Materials</i> , 2021, 4, 6553-6561.	5.1	26
28	Stability of Perovskite Solar Cells: Degradation Mechanisms and Remedies. <i>Frontiers in Electronics</i> , 2021, 2, .	3.2	75
29	Control Perovskite Crystals Vertical Growth for Obtaining High-Performance Monolithic Perovskite/Silicon Heterojunction Tandem Solar Cells with V_{OC} of 1.93 V. <i>Solar Rrl</i> , 2021, 5, 2100357.	5.8	15
30	Multifunctional Molecule Engineered SnO_2 for Perovskite Solar Cells with High Efficiency and Reduced Lead Leakage. <i>Solar Rrl</i> , 2021, 5, 2100464.	5.8	26
31	Room-temperature sputtered tungsten-doped indium oxide for improved current in silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 227, 111082.	6.2	23
32	An over 20% solar-to-hydrogen efficiency system comprising a self-reconstructed NiCoFe-based hydroxide nanosheet electrocatalyst and monolithic perovskite/silicon tandem solar cell. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14085-14092.	10.3	29
33	Silicon heterojunction-based tandem solar cells: past, status, and future prospects. <i>Nanophotonics</i> , 2021, 10, 2001-2022.	6.0	21
34	Wide Bandgap Interface Layer Induced Stabilized Perovskite/Silicon Tandem Solar Cells with Stability over Ten Thousand Hours. <i>Advanced Energy Materials</i> , 2021, 11, 2102046.	19.5	57
35	Broad-Spectrum Ultrathin-Metal-Based Oxide/Metal/Oxide Transparent Conductive Films for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58539-58551.	8.0	8
36	Light Management in Monolithic Perovskite/Silicon Tandem Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900206.	5.8	36

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37	Semitransparent Perovskite Solar Cells: From Materials and Devices to Applications. <i>Advanced Materials</i> , 2020, 32, e1806474.	21.0	148
38	Defects Healing in Two-Step Deposited Perovskite Solar Cells via Formamidinium Iodide Compensation. <i>ACS Applied Energy Materials</i> , 2020, 3, 3318-3327.	5.1	32
39	Gradient Energy Alignment Engineering for Planar Perovskite Solar Cells with Efficiency Over 23%. <i>Advanced Materials</i> , 2020, 32, e1905766.	21.0	172
40	NiO _x /Spiro Hole Transport Bilayers for Stable Perovskite Solar Cells with Efficiency Exceeding 21%. <i>ACS Energy Letters</i> , 2020, 5, 79-86.	17.4	104
41	Toward Efficient and Stable Perovskite Solar Cells: Choosing Appropriate Passivator to Specific Defects. <i>Solar Rrl</i> , 2020, 4, 2070104.	5.8	8
42	Selective electrochemical reduction of carbon dioxide to ethylene on a copper hydroxide nitrate nanostructure electrode. <i>Nanoscale</i> , 2020, 12, 17013-17019.	5.6	24
43	Toward Efficient and Stable Perovskite Solar Cells: Choosing Appropriate Passivator to Specific Defects. <i>Solar Rrl</i> , 2020, 4, 2000308.	5.8	31
44	Passivation of defects in perovskite solar cell: From a chemistry point of view. <i>Nano Energy</i> , 2020, 77, 105237.	16.0	92
45	Realizing the Potential of RF-Sputtered Hydrogenated Fluorine-Doped Indium Oxide as an Electrode Material for Ultrathin SiO _x /Poly-Si Passivating Contacts. <i>ACS Applied Energy Materials</i> , 2020, 3, 8606-8618.	5.1	11
46	Performance Promotion through Dual-Interface Engineering of CuSCN Layers in Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27977-27984.	3.1	12
47	Highly efficient bifacial semitransparent perovskite solar cells based on molecular doping of CuSCN hole transport layer*. <i>Chinese Physics B</i> , 2020, 29, 078801.	1.4	12
48	Phase Distribution and Carrier Dynamics in Multiple-Ring Aromatic Spacer-Based Two-Dimensional Ruddlesden-Popper Perovskite Solar Cells. <i>ACS Nano</i> , 2020, 14, 4871-4881.	14.6	126
49	Aryl Diammonium Iodide Passivation for Efficient and Stable Hybrid Organic-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2002366.	14.9	52
50	Inorganic material passivation of defects toward efficient perovskite solar cells. <i>Science Bulletin</i> , 2020, 65, 2022-2032.	9.0	36
51	A mixed hole transport material employing a highly planar conjugated molecule for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5163-5170.	10.3	40
52	Rational modulating electronegativity of substituents in amorphous metal-organic frameworks for water oxidation catalysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9723-9732.	7.1	18
53	Hydration Effect Promoting Ni-Fe Oxyhydroxide Catalysts for Neutral Water Oxidation. <i>Advanced Materials</i> , 2020, 32, e1906806.	21.0	62
54	Innovative Wide-Spectrum Mg and Ga-Codoped ZnO Transparent Conductive Films Grown via Reactive Plasma Deposition for Si Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 1574-1584.	5.1	11

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55	Ligand-Modulated Excess PbI ₂ Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2000865.	21.0	136
56	I/P interface modification for stable and efficient perovskite solar cells. <i>Journal of Semiconductors</i> , 2020, 41, 052202.	3.7	5
57	Role of Moisture in the Preparation of Efficient Planar Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17691-17696.	6.7	20
58	Scalable and efficient perovskite solar cells prepared by grooved roller coating. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1870-1877.	10.3	9
59	Efficient and Stable Perovskite Solar Cell Achieved with Bifunctional Interfacial Layers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25218-25226.	8.0	23
60	Highly Efficient and Stable Solar Cells Based on Crystalline Oriented 2D/3D Hybrid Perovskite. <i>Advanced Materials</i> , 2019, 31, e1901242.	21.0	210
61	Room-temperature quantum interference in single perovskite quantum dot junctions. <i>Nature Communications</i> , 2019, 10, 5458.	12.8	20
62	Self-formed PbI ₂ -DMSO adduct for highly efficient and stable perovskite solar cells. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	9
63	High-Mobility Hydrogenated Fluorine-Doped Indium Oxide Film for Passivating Contacts c-Si Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45586-45595.	8.0	21
64	Inverted pyramidally-textured PDMS antireflective foils for perovskite/silicon tandem solar cells with flat top cell. <i>Nano Energy</i> , 2019, 56, 234-240.	16.0	80
65	Monolithic Perovskite/Silicon-Heterojunction Tandem Solar Cells with Open-Circuit Voltage of over 1.8 V. <i>ACS Applied Energy Materials</i> , 2019, 2, 243-249.	5.1	44
66	SiH ₄ enhanced dissociation via argon plasma assistance for hydrogenated microcrystalline silicon thin-film deposition and application in tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 110-117.	6.2	10
67	Delayed Annealing Treatment for High-Quality CuSCN: Exploring Its Impact on Bifacial Semitransparent n-i-p Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 1575-1584.	5.1	30
68	Direct Comparison of Electron Transport and Recombination Behaviors of Dye-Sensitized Solar Cells Prepared Using Different Sintering Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7193-7198.	6.7	3
69	Management of light trapping capability of AZO film for Si thin film solar cells-via tailoring surface texture. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 401-408.	6.2	15
70	Transparent electrode for monolithic perovskite/silicon-heterojunction two-terminal tandem solar cells. <i>Nano Energy</i> , 2018, 45, 280-286.	16.0	67
71	Realization of 16.9% Efficiency on Nanowires Heterojunction Solar Cells with Dopant-Free Contact for Bifacial Polarities. <i>Advanced Functional Materials</i> , 2018, 28, 1805001.	14.9	18
72	Polymeric Surface Modification of NiO _x -Based Inverted Planar Perovskite Solar Cells with Enhanced Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16806-16812.	6.7	83

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73	Two-Dimensional Ruddlesden-Popper Perovskite with Nanorod-like Morphology for Solar Cells with Efficiency Exceeding 15%. <i>Journal of the American Chemical Society</i> , 2018, 140, 11639-11646.	13.7	397
74	Solvent Engineering to Balance Light Absorbance and Transmittance in Perovskite for Tandem Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800176.	5.8	42
75	Unraveling the Passivation Process of PbI_2 to Enhance the Efficiency of Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21269-21276.	3.1	97
76	Acetate Anion Assisted Crystal Orientation Reconstruction in Organic-Inorganic Lead Halide Perovskite. <i>ACS Applied Energy Materials</i> , 2018, 1, 2730-2739.	5.1	23
77	High near-infrared wavelength response planar silicon-heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 124-129.	6.2	14
78	Activity enhancement via borate incorporation into a NiFe (oxy)hydroxide catalyst for electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16959-16964.	10.3	21
79	Controlling performance of a-Si:H solar cell with SnO_2 :F front electrode by introducing dual p-layers with p-a-SiO ₂ :H/p-nc-SiO ₂ :H nanostructure. <i>Solar Energy</i> , 2018, 171, 907-913.	6.1	9
80	Cesium Halides-Assisted Crystal Growth of Perovskite Films for Efficient Planar Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 5264-5271.	6.7	30
81	Compound Homo Junction: Heterojunction Reduces Bulk and Interface Recombination in ZnO Photoanodes for Water Splitting. <i>Small</i> , 2017, 13, 1603527.	10.0	29
82	Origin of Photovoltage Enhancement via Interfacial Modification with Silver Nanoparticles Embedded in an a-SiC:H p-Type Layer in a-Si:H Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11184-11192.	8.0	5
83	The correlation of material properties and deposition condition of ZnON thin films. <i>AIP Advances</i> , 2017, 7, .	1.3	10
84	High efficiency and high open-circuit voltage quadruple-junction silicon thin film solar cells for future electronic applications. <i>Energy and Environmental Science</i> , 2017, 10, 1134-1141.	30.8	45
85	Elucidating the role of chlorine in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7423-7432.	10.3	95
86	Perovskite/silicon-based heterojunction tandem solar cells with 14.8% conversion efficiency via adopting ultrathin Au contact. <i>Journal of Semiconductors</i> , 2017, 38, 014003.	3.7	8
87	Exploring the mechanism of a pure and amorphous black-blue TiO ₂ :H thin film as a photoanode in water splitting. <i>Nano Energy</i> , 2017, 42, 151-156.	16.0	36
88	Substrate effect on ultra-thin hydrogenated amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 171, 222-227.	6.2	5
89	Optical/Electrical Integrated Design of Core-Shell Aluminum-Based Plasmonic Nanostructures for Record-Breaking Efficiency Enhancements in Photovoltaic Devices. <i>ACS Photonics</i> , 2017, 4, 2102-2110.	6.6	18
90	High-efficiency micromorph solar cell with light management in tunnel recombination junction. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 469-473.	6.2	10

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91	Novel insight into the function of PC61BM in efficient planar perovskite solar cells. <i>Nano Energy</i> , 2016, 27, 561-568.	16.0	14
92	Cost-effective hollow honeycomb textured back reflector for flexible thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 128-133.	6.2	6
93	Modify the Schottky contact between fluorine-doped tin oxide front electrode and p-a-SiC:H by carbon dioxide plasma treatment. <i>Solar Energy</i> , 2016, 134, 375-382.	6.1	9
94	Tuning of the open-circuit voltage by wide band-gap absorber and doped layers in thin film silicon solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 453-456.	2.4	3
95	Fill factor improvement in PIN type hydrogenated amorphous silicon germanium thin film solar cells: Omnipotent N type $^{114}\text{C-SiO}_2\text{:H}$ layer. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 450-456.	6.2	18
96	High-quality hydrogenated intrinsic amorphous silicon oxide layers treated by H ₂ plasma used as the p/i buffer layers in hydrogenated amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 136, 172-176.	6.2	18
97	Silicon Solar Cells: Graphenized Carbon Nanofiber: A Novel Light-Trapping and Conductive Material to Achieve an Efficiency Breakthrough in Silicon Solar Cells (<i>Adv. Mater.</i> 5/2015). <i>Advanced Materials</i> , 2015, 27, 848-848.	21.0	1
98	A catalyst-free amorphous silicon-based tandem thin film photocathode with high photovoltage for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15583-15590.	10.3	14
99	Increasing efficiency of hierarchical nanostructured heterojunction solar cells to 16.3% via controlling interface recombination. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22902-22907.	10.3	14
100	Theoretical insights into highly transparent multi-sized conducting films with high-haze and wide-angular scattering for thin film solar cells. <i>Journal of Power Sources</i> , 2015, 297, 68-74.	7.8	9
101	High efficiency triple junction thin film silicon solar cells with optimized electrical structure. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1313-1322.	8.1	21
102	Graphenized Carbon Nanofiber: A Novel Light-Trapping and Conductive Material to Achieve an Efficiency Breakthrough in Silicon Solar Cells. <i>Advanced Materials</i> , 2015, 27, 849-855.	21.0	20
103	Investigation of H ₂ /CH ₄ mixed gas plasma post-etching process for ZnO:B front contacts grown by LP-MOCVD method in silicon-based thin-film solar cells. <i>Applied Surface Science</i> , 2014, 316, 508-514.	6.1	5
104	Optimal design of one-dimensional photonic crystal back reflectors for thin-film silicon solar cells. <i>Journal of Applied Physics</i> , 2014, 116, 064508.	2.5	10
105	In situ grown size-controlled silicon nanocrystals: A p type nanocrystalline-Si:H/a-SiC _x :H superlattice (p-nc-Si:H/a-SiC _x :H) approach. <i>Solar Energy Materials and Solar Cells</i> , 2014, 123, 228-232.	6.2	20
106	Periodically textured metal electrodes: large-area fabrication, characterization, simulation, and application as efficient back-reflective scattering contact-electrodes for thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13259-13269.	10.3	10
107	Improvement in performance of hydrogenated amorphous silicon solar cells with hydrogenated intrinsic amorphous silicon oxide p/i buffer layers. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 394-398.	6.2	17
108	High open-circuit voltage (1.04 V) n ⁺ -i ⁺ -p type thin film silicon solar cell by two-phase silicon carbide intrinsic material. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 561-566.	6.2	13

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109	Boron doped nanocrystalline silicon/amorphous silicon hybrid emitter layers used to improve the performance of silicon heterojunction solar cells. <i>Solar Energy</i> , 2014, 108, 308-314.	6.1	18
110	Improved amorphous/crystalline silicon interface passivation for heterojunction solar cells by low-temperature chemical vapor deposition and post-annealing treatment. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20202.	2.8	23
111	The influence of perpendicular transport behavior on the properties of n-i-p type amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 635-641.	6.2	9
112	Light management in hydrogenated amorphous silicon germanium solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 1-10.	6.2	14
113	Improvement of solar cells performance by boron doped amorphous silicon carbide/nanocrystalline silicon hybrid window layers. <i>Solar Energy Materials and Solar Cells</i> , 2013, 114, 9-14.	6.2	31
114	High-efficiency a-Si:H/ μ c-Si:H solar cells by optimizing A-Si:H and μ c-Si:H sub-cells. , 2013, , .		0
115	Research Progresses on High Efficiency Amorphous and Microcrystalline Silicon-Based Thin Film Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1245, 1.	0.1	0
116	A new type counter electrode for dye-sensitized solar cells. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1923-1927.	0.9	7
117	Multifunctional Two-Dimensional Conjugated Materials for Dopant-Free Perovskite Solar Cells with Efficiency Exceeding 22%. <i>ACS Energy Letters</i> , 0, , 1521-1532.	17.4	103
118	Controllable Simultaneous Bifacial Cu ²⁺ Plating for High Efficiency Crystalline Silicon Solar Cells. <i>Solar Rrl</i> , 0, , .	5.8	6