Jihuai Wu

List of Publications by Year
in descending order

536 papers	24,222 citations	9234 74 h-index	15683 125 g-index
537 all docs	537 docs citations	537 times ranked	20186 citing authors

#	Article	IF	Citations
1	A highly efficient flexible dye-sensitized solar cell based on nickel sulfide/platinum/titanium counter electrode. Nanoscale Research Letters, 2015, 10, 1.	3.1	959
2	Electrolytes in Dye-Sensitized Solar Cells. Chemical Reviews, 2015, 115, 2136-2173.	23.0	852
3	Counter electrodes in dye-sensitized solar cells. Chemical Society Reviews, 2017, 46, 5975-6023.	18.7	609
4	Natural dyes as photosensitizers for dye-sensitized solar cell. Solar Energy, 2006, 80, 209-214.	2.9	509
5	Application of microporous polyaniline counter electrode for dye-sensitized solar cells. Electrochemistry Communications, 2008, 10, 1299-1302.	2.3	457
6	High-performance polypyrrole nanoparticles counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2008, 181, 172-176.	4.0	424
7	Photocatalytic discolorization of methyl orange solution by Pt modified TiO2 loaded on natural zeolite. Dyes and Pigments, 2008, 77, 327-334.	2.0	373
8	Improvement of the performance for quasi-solid-state supercapacitor by using PVAâ€“KOHâ€“KI polymer gel electrolyte. Electrochimica Acta, 2011, 56, 6881-6886.	2.6	278
9	A novel redox-mediated gel polymer electrolyte for high-performance supercapacitor. Journal of Power Sources, 2012, 198, 402-407.	4.0	266
10	Synthesis and Properties of Poly(acrylic acid)/Mica Superabsorbent Nanocomposite. Macromolecular Rapid Communications, 2001, 22, 422-424.	2.0	253
11	Study on starch-graft-acrylamide/mineral powder superabsorbent composite. Polymer, 2003, 44, 6513-6520.	1.8	252
12	An All-Solid-State Dye-Sensitized Solar Cell-Based Poly(N-alkyl-4-vinyl-pyridine iodide) Electrolyte with Efficiency of 5.64%. Journal of the American Chemical Society, 2008, 130, 11568-11569.	6.6	243
13	Progress on the electrolytes for dye-sensitized solar cells. Pure and Applied Chemistry, 2008, 80, 2241-2258.	0.9	234
14	Synthesis and properties of starch-graft-polyacrylamide/clay superabsorbent composite. Macromolecular Rapid Communications, 2000, 21, 1032-1034.	2.0	218
15	N-doped reduced graphene oxide decorated NiSe2 nanoparticles for high-performance asymmetric supercapacitors. Journal of Power Sources, 2019, 425, 60-68.	4.0	196
16	Asymmetric supercapacitor based on graphene oxide/polypyrrole composite and activated carbon electrodes. Electrochimica Acta, 2014, 137, 26-33.	2.6	193
17	Pulse electropolymerization of high performance PEDOT/MWCNT counter electrodes for Pt-free dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 19919.	6.7	189
18	High performance platinum-free counter electrode of molybdenum sulfideâ€“carbon used in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 1495-1501.	5.2	185

#	Article	IF	Citations
19	Facile one-step hydrothermal preparation ofÂmolybdenum disulfide/carbon composite forÂuseÂinÂsupercapacitor. International Journal of Hydrogen Energy, 2015, 40, 10150-10157.	3.8	179
20	Suppressing Vacancy Defects and Grain Boundaries via Ostwald Ripening for Highâ€Performance and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e1904347.	11.1	172
21	The polymer gel electrolyte based on poly(methyl methacrylate) and its application in quasi-solid-state dye-sensitized solar cells. Materials Chemistry and Physics, 2008, 110, 38-42.	2.0	160
22	High-performance and low platinum loading Pt/Carbon black counter electrode for dye-sensitized solar cells. Solar Energy, 2009, 83, 845-849.	2.9	158
23	A simple and high-effective electrolyte mediated with p-phenylenediamine for supercapacitor. Journal of Materials Chemistry, 2012, 22, 19025.	6.7	154
24	A catalytic composite film of MoS2/graphene flake as a counter electrode for Pt-free dye-sensitized solar cells. Electrochimica Acta, 2012, 85, 162-168.	2.6	152
25	A Largeâ€Area Lightâ€Weight Dyeâ€Sensitized Solar Cell based on All Titanium Substrates with an Efficiency of 6.69% Outdoors. Advanced Materials, 2012, 24, 1884-1888.	11.1	146
26	Bifacial dye-sensitized solar cells: A strategy to enhance overall efficiency based on transparent polyaniline electrode. Scientific Reports, 2014, 4, 4028.	1.6	141
27	Redox-active alkaline electrolyte for carbon-based supercapacitor with pseudocapacitive performance and excellent cyclability. RSC Advances, 2012, 2, 6736.	1.7	140
28	Enhancement of the Photovoltaic Performance of Dyeâ€Sensitized Solar Cells by Doping Y_{0.78}Yb_{0.20}Er_{0.02}F₃ in the Photoanode. Advanced Energy Materials, 2012, 2, 78-81.	10.2	131
29	A counter electrode of multi-wall carbon nanotubes decorated with tungsten sulfide used in dye-sensitized solar cells. Carbon, 2013, 55, 1-9.	5.4	131
30	Diboronâ€Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. Advanced Materials, 2018, 30, e1805085.	11.1	128
31	Influence of the COOH and COONa groups and crosslink density of poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (50, 1050-1053.	1.6	124
32	Polyaniline/polyacrylamide conducting composite hydrogel with a porous structure. Carbohydrate Polymers, 2008, 74, 215-219.	5.1	124
33	Improving the energy density of quasi-solid-state electric double-layer capacitors by introducing redox additives into gel polymer electrolytes. Journal of Materials Chemistry A, 2014, 2, 9011.	5.2	124
34	Single-crystalline TiO2 nanoparticles for stable and efficient perovskite modules. Nature Nanotechnology, 2022, 17, 598-605.	15.6	121
35	High energy density and low self-discharge of a quasi-solid-state supercapacitor with carbon nanotubes incorporated redox-active ionic liquid-based gel polymer electrolyte. Electrochimica Acta, 2020, 331, 135425.	2.6	119
36	Gel polymer electrolyte based on poly(acrylonitrile-co-styrene) and a novel organic iodide salt for quasi-solid state dye-sensitized solar cell. Electrochimica Acta, 2006, 51, 4243-4249.	2.6	116

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37	Marked Passivation Effect of Naphthaleneâ€1,8â€Dicarboximides in Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, e2008405.	11.1	116
38	Stable Inverted Planar Perovskite Solar Cells with Lowâ€Temperatureâ€Processed Holeâ€Transport Bilayer. Advanced Energy Materials, 2017, 7, 1700763.	10.2	115
39	Improved energy density of quasi-solid-state supercapacitors using sandwich-type redox-active gel polymer electrolytes. Electrochimica Acta, 2015, 166, 150-156.	2.6	113
40	Efficient and Stable 2D@3D/2D Perovskite Solar Cells Based on Dual Optimization of Grain Boundary and Interface. ACS Energy Letters, 2021, 6, 3614-3623.	8.8	113
41	Application of Poly(3,4-ethylenedioxythiophene):Polystyrenesulfonate/Polypyrrole Counter Electrode for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 18057-18063.	1.5	108
42	Flower-like nickel cobalt sulfide microspheres modified with nickel sulfide as Pt-free counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2016, 304, 266-272.	4.0	105
43	Polymer Electrolyte Glue: A Universal Interfacial Modification Strategy for All-Solid-State Li Batteries. Nano Letters, 2019, 19, 2343-2349.	4.5	105
44	Using eggshell membrane as a separator in supercapacitor. Journal of Power Sources, 2012, 206, 463-468.	4.0	101
45	Quasi-solid state dye-sensitized solar cells based on gel polymer electrolyte with poly(acrylonitrile-co-styrene)/NaI+I2. Solar Energy, 2006, 80, 1483-1488.	2.9	97
46	Pulse electrodeposition of CoS on MWCNT/Ti as a high performance counter electrode for a Pt-free dye-sensitized solar cell. Journal of Materials Chemistry A, 2013, 1, 1289-1295.	5.2	95
47	Surface passivation using pyridinium iodide for highly efficient planar perovskite solar cells. Journal of Energy Chemistry, 2021, 52, 84-91.	7.1	95
48	Glucose Aided Preparation of Tungsten Sulfide/Multi-Wall Carbon Nanotube Hybrid and Use as Counter Electrode in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 6530-6536.	4.0	94
49	Functionalized graphene/poly(3,4-ethylenedioxythiophene):polystyrenesulfonate as counter electrode catalyst for dye-sensitized solar cells. Energy, 2013, 54, 315-321.	4.5	94
50	Design of a novel redox-active gel polymer electrolyte with a dual-role ionic liquid for flexible supercapacitors. Electrochimica Acta, 2018, 268, 562-568.	2.6	92
51	The influence of acid treatment of TiO2 porous film electrode on photoelectric performance of dye-sensitized solar cell. Solar Energy, 2004, 76, 745-750.	2.9	91
52	Conducting Film from Graphite Oxide Nanoplatelets and Poly(acrylic acid) by Layer-by-Layer Self-Assembly. Langmuir, 2008, 24, 4800-4805.	1.6	90
53	A microporous platinum counter electrode used in dye-sensitized solar cells. Nano Energy, 2013, 2, 622-627.	8.2	90
54	A high performance cobalt sulfide counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2015, 159, 166-173.	2.6	90

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55	A high performance Pt-free counter electrode of nickel sulfide/multi-wall carbon nanotube/titanium used in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 13885.	5.2	89
56	A high-performance pseudocapacitive electrode material for supercapacitors based on the unique NiMoO4/NiO nanoflowers. Applied Surface Science, 2019, 463, 721-731.	3.1	89
57	Improved redox-active ionic liquid-based ionogel electrolyte by introducing carbon nanotubes for application in all-solid-state supercapacitors. International Journal of Hydrogen Energy, 2020, 45, 17131-17139.	3.8	88
58	Superabsorbent conducting hydrogel from poly(acrylamide-aniline) with thermo-sensitivity and release properties. Carbohydrate Polymers, 2008, 73, 473-481.	5.1	87
59	TiO₂quantum dots as superb compact block layers for high-performance CH₃NH₃PbI₃perovskite solar cells with an efficiency of 16.97%. Nanoscale, 2015, 7, 20539-20546.	2.8	87
60	Enhancing photoelectrical performance of dye-sensitized solar cell by doping with europium-doped yttria rare-earth oxide. Journal of Power Sources, 2010, 195, 6937-6940.	4.0	85
61	Excellent Electrochemical Performance Hierarchical Co3O4@Ni3S2 core/shell nanowire arrays for Asymmetric Supercapacitors. Electrochimica Acta, 2016, 207, 87-96.	2.6	85
62	Highly efficient tin perovskite solar cells achieved in a wide oxygen concentration range. Journal of Materials Chemistry A, 2020, 8, 2760-2768.	5.2	85
63	Controllable fabrication of Bi2O3/TiO2 heterojunction with excellent visible-light responsive photocatalytic performance. Applied Surface Science, 2017, 423, 119-130.	3.1	84
64	Crystal Morphology of Anatase Titania Nanocrystals Used in Dye-Sensitized Solar Cells. Crystal Growth and Design, 2008, 8, 247-252.	1.4	83
65	Dye-sensitized solar cells with high-performance polyaniline/multi-wall carbon nanotube counter electrodes electropolymerized by a pulse potentiostatic technique. Journal of Power Sources, 2013, 233, 320-325.	4.0	83
66	Mesoporous Co0.85Se nanosheets supported on Ni foam as a positive electrode material for asymmetric supercapacitor. Applied Surface Science, 2016, 362, 469-476.	3.1	83
67	A polyblend electrolyte (PVP/PEG+KI+I2) for dye-sensitized nanocrystalline TiO2 solar cells. Electrochimica Acta, 2007, 52, 5334-5338.	2.6	81
68	Electrospun lead-doped titanium dioxide nanofibers and the in situ preparation of perovskite-sensitized photoanodes for use in high performance perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 16856-16862.	5.2	81
69	High performance and stable perovskite solar cells using vanadic oxide as a dopant for spiro-OMeTAD. Journal of Materials Chemistry A, 2019, 7, 13256-13264.	5.2	81
70	Dual functions of YF3:Eu3+ for improving photovoltaic performance of dye-sensitized solar cells. Scientific Reports, 2013, 3, 2058.	1.6	80
71	Facile hydrothermal synthesis of NiTe and its application as positive electrode material for asymmetric supercapacitor. Journal of Alloys and Compounds, 2016, 685, 384-390.	2.8	80
72	Enhanced Interfacial Binding and Electron Extraction Using Boronâ€Doped TiO₂ for Highly Efficient Hysteresisâ€Free Perovskite Solar Cells. Advanced Science, 2019, 6, 1901213.	5.6	80

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73	Highly Efficient CsPbBr₃ Planar Perovskite Solar Cells via Additive Engineering with NH₄SCN. ACS Applied Materials & Interfaces, 2020, 12, 10579-10587.	4.0	80
74	Platinum/graphene hybrid film as a counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2013, 92, 64-70.	2.6	79
75	Improvement of performance of dye-sensitized solar cells based on electrodeposited-platinum counter electrode. Electrochimica Acta, 2008, 53, 4161-4166.	2.6	76
76	Electrodeposited NiSe2 on carbon fiber cloth as a flexible electrode for high-performance supercapacitors. Journal of Energy Chemistry, 2017, 26, 1252-1259.	7.1	75
77	A dye-sensitized solar cell based on platinum nanotube counter electrode with efficiency of 9.05%. Journal of Power Sources, 2014, 257, 84-89.	4.0	74
78	High performance sponge-like cobalt sulfide/reduced graphene oxide hybrid counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2015, 293, 570-576.	4.0	74
79	Shape and Size Control of Oriented Polyaniline Microstructure by a Self-Assembly Method. Langmuir, 2009, 25, 5253-5257.	1.6	73
80	Fabrication of high performance multi-walled carbon nanotubes/polypyrrole counter electrode for dye-sensitized solar cells. Energy, 2014, 67, 460-467.	4.5	73
81	Effect of solvents in liquid electrolyte on the photovoltaic performance of dye-sensitized solar cells. Journal of Power Sources, 2007, 173, 585-591.	4.0	72
82	Quasi-solid state dye-sensitized solar cells-based gel polymer electrolytes with poly(acrylamide)â€“poly(ethylene glycol) composite. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 333-337.	2.0	71
83	Hydrothermal synthesis and luminescence properties of GdVO4:Ln3+ (Ln=Eu, Sm, Dy) phosphors. Journal of Alloys and Compounds, 2012, 513, 474-480.	2.8	71
84	Facile Synthesis of Mesoporous Tin Oxide Spheres and Their Applications in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 20140-20145.	1.5	71
85	Electric field sensitivity of conducting hydrogels with interpenetrating polymer network structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 177-183.	2.3	69
86	Application of poly(acrylic acid-g-gelatin)/polypyrrole gel electrolyte in flexible quasi-solid-state dye-sensitized solar cell. Electrochimica Acta, 2010, 55, 2777-2781.	2.6	68
87	Low temperature preparation of a high performance Pt/SWCNT counter electrode for flexible dye-sensitized solar cells. Electrochimica Acta, 2011, 56, 8545-8550.	2.6	68
88	Enhancing photovoltaic performance of dye-sensitized solar cell by rare-earth doped oxide of Lu2O3:(Tm3+, Yb3+). Electrochimica Acta, 2011, 56, 4980-4984.	2.6	68
89	Synthesis of CuCo2S4 nanosheet arrays on Ni foam as binder-free electrode for asymmetric supercapacitor. International Journal of Hydrogen Energy, 2018, 43, 23372-23381.	3.8	68
90	Two-steps synthesis of a poly(acrylateâ€“aniline) conducting hydrogel with an interpenetrated networks structure. Carbohydrate Polymers, 2007, 67, 332-336.	5.1	67

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91	Enhancing the photoelectrical performance of dye-sensitized solar cells using TiO₂:Eu^{3 +}nanorods. Nanotechnology, 2010, 21, 415201.	1.3	67
92	Synthesis and photocatalytic properties of fibrous titania by solvothermal reactions. Journal of Materials Processing Technology, 2003, 137, 45-48.	3.1	66
93	Template-free synthesis of closed-microporous hybrid and its application in quasi-solid-state dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 524.	15.6	66
94	Photocatalytic property of nitrogen-doped layered perovskite K2La2Ti3O10. Solar Energy Materials and Solar Cells, 2010, 94, 761-766.	3.0	66
95	Preparation and photocatalytic degradability of TiO2/polyacrylamide composite. European Polymer Journal, 2007, 43, 2214-2220.	2.6	65
96	Enhanced performance of low-cost dye-sensitized solar cells with pulse-electropolymerized polyaniline counter electrodes. Electrochimica Acta, 2013, 90, 468-474.	2.6	65
97	High performance perovskite solar cells based on Î²-NaYF4:Yb3+/Er3+/Sc3+@NaYF4 core-shell upconversion nanoparticles. Journal of Power Sources, 2019, 426, 178-187.	4.0	65
98	A multifunctional hydrogel with high conductivity, pH-responsive, thermo-responsive and release properties from polyacrylate/polyaniline hybrid. Carbohydrate Polymers, 2008, 73, 315-321.	5.1	64
99	Application of Y₂O₃:Er³⁺ Nanorods in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2012, 5, 1307-1312.	3.6	64
100	Two-step hydrothermal synthesis of NiCo2S4/Co9S8 nanorods on nickel foam for high energy density asymmetric supercapacitors. Applied Surface Science, 2018, 434, 861-870.	3.1	64
101	A C₆₀/TiO_x bilayer for conformal growth of perovskite films for UV stable perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 11086-11094.	5.2	64
102	Facile one-step hydrothermal synthesis of reduced graphene oxide/Co3O4 composites for supercapacitors. Journal of Materials Science, 2013, 48, 8463-8470.	1.7	63
103	Flowerlike molybdenum sulfide/multi-walled carbon nanotube hybrid as Pt-free counter electrode used in dye-sensitized solar cells. Electrochimica Acta, 2015, 173, 252-259.	2.6	63
104	Solvent engineering for high-quality perovskite solar cell with an efficiency approaching 20%. Journal of Power Sources, 2017, 365, 1-6.	4.0	63
105	Improved performance of a CoTe//AC asymmetric supercapacitor using a redox additive aqueous electrolyte. RSC Advances, 2018, 8, 7997-8006.	1.7	63
106	Influence of molecular weight of PEG on the property of polymer gel electrolyte and performance of quasi-solid-state dye-sensitized solar cells. Electrochimica Acta, 2007, 52, 6673-6678.	2.6	62
107	Preparation of high performance perovskite-sensitized nanoporous titanium dioxide photoanodes by in situ method for use in perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 16531-16537.	5.2	62
108	Building Lithiophilic Ionâ€Conduction Highways on Garnetâ€Type Solidâ€State Li⁺ Conductors. Advanced Energy Materials, 2020, 10, 1904230.	10.2	62

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109	Self-assembly growth of oriented polyaniline arrays: A morphology and structure study. Polymer, 2008, 49, 5262-5267.	1.8	61
110	Efficient bifacial perovskite solar cell based on a highly transparent poly(3,4-ethylenedioxythiophene) as the p-type hole-transporting material. Journal of Power Sources, 2016, 306, 171-177.	4.0	61
111	Pyrrole: an additive for improving the efficiency and stability of perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 11764-11770.	5.2	61
112	Preparation of poly(acrylic acid)/gelatin/polyaniline gel-electrolyte and its application in quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2012, 203, 282-287.	4.0	60
113	A comparative study of o,p-dimethoxyphenyl-based hole transport materials by altering Ï€-linker units for highly efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 10480-10485.	5.2	60
114	Modulated CH3NH3PbI3â^'xBrx film for efficient perovskite solar cells exceeding 18%. Scientific Reports, 2017, 7, 44603.	1.6	60
115	High-performance inverted planar perovskite solar cells based on efficient hole-transporting layers from well-crystalline NiO nanocrystals. Solar Energy, 2018, 161, 100-108.	2.9	60
116	An ultraviolet responsive hybrid solar cell based on titania/poly(3-hexylthiophene). Scientific Reports, 2013, 3, 1283.	1.6	59
117	Solvent engineering for forming stonehenge-like PbI₂nano-structures towards efficient perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 4376-4383.	5.2	59
118	Synthesis and photocatalytic properties of layered HNbWO6/(Pt, Cd0.8Zn0.2S) nanocomposites. Journal of Materials Chemistry, 2001, 11, 3343-3347.	6.7	58
119	Low cost poly(3,4-ethylenedioxythiophene):polystyrenesulfonate/carbon black counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2012, 67, 113-118.	2.6	58
120	Pulse potentiostatic electropolymerization of high performance PEDOT counter electrodes for Pt-free dye-sensitized solar cells. Electrochimica Acta, 2012, 83, 221-226.	2.6	57
121	Cobalt selenide nanorods used as a high efficient counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2015, 168, 69-75.	2.6	57
122	Pyridine solvent engineering for high quality anion-cation-mixed hybrid and high performance of perovskite solar cells. Journal of Power Sources, 2018, 399, 144-150.	4.0	57
123	Fabrication of a high-strength hydrogel with an interpenetrating network structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 91-98.	2.3	56
124	Morphology controllable fabrication of Pt counter electrodes for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 3948.	6.7	56
125	Application of a novel redox-active electrolyte in MnO2-based supercapacitors. Science China Chemistry, 2012, 55, 1319-1324.	4.2	56
126	Interface engineering with NiO nanocrystals for highly efficient and stable planar perovskite solar cells. Electrochimica Acta, 2019, 293, 211-219.	2.6	56

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127	The synthesis of bismuth vanadate powders and their photocatalytic properties under visible light irradiation. Journal of Alloys and Compounds, 2010, 496, 287-292.	2.8	55
128	An efficient redox-mediated organic electrolyte for high-energy supercapacitor. Journal of Power Sources, 2014, 248, 1123-1126.	4.0	55
129	pâ€“n Heterojunction on Ordered ZnO Nanowires/Polyaniline Microrods Double Array. Langmuir, 2012, 28, 3972-3978.	1.6	54
130	Enhancement of Photovoltaic Performance of Dye-Sensitized Solar Cells by Modifying Tin Oxide Nanorods with Titanium Oxide Layer. Journal of Physical Chemistry C, 2013, 117, 4345-4350.	1.5	54
131	The relationship between the boron dipyrromethene (BODIPY) structure and the effectiveness of homogeneous and heterogeneous solar hydrogen-generating systems as well as DSSCs. Physical Chemistry Chemical Physics, 2015, 17, 9716-9729.	1.3	54
132	PbS/CdS heterojunction thin layer affords high-performance carbon-based all-inorganic solar cells. Nano Energy, 2022, 95, 106973.	8.2	54
133	Photocatalytic water reduction from a noble-metal-free molecular dyad based on a thienyl-expanded BODIPY photosensitizer. Chemical Communications, 2015, 51, 12361-12364.	2.2	53
134	The preparation of titania nanotubes and its application in flexible dye-sensitized solar cells. Electrochimica Acta, 2010, 55, 4573-4578.	2.6	52
135	Improving the photovoltaic performance of cadmium sulfide quantum dots-sensitized solar cell by graphene/titania photoanode. Electrochimica Acta, 2013, 96, 110-116.	2.6	52
136	Quasi-solid-state dye-sensitized solar cells with a novel efficient absorbent for liquid electrolyte based on PAAâ€“PEG hybrid. Journal of Power Sources, 2007, 164, 921-925.	4.0	51
137	A simple route to interpenetrating network hydrogel with high mechanical strength. Journal of Colloid and Interface Science, 2009, 339, 45-52.	5.0	51
138	Solvothermal synthesis nitrogen doped SrTiO3 with high visible light photocatalytic activity. Ceramics International, 2014, 40, 10583-10591.	2.3	51
139	Improving the energy density of quasi-solid-state supercapacitors by assembling two redox-active gel electrolytes. International Journal of Hydrogen Energy, 2016, 41, 5725-5732.	3.8	51
140	An efficient titanium foil based perovskite solar cell: using a titanium dioxide nanowire array anode and transparent poly(3,4-ethylenedioxythiophene) electrode. RSC Advances, 2016, 6, 2778-2784.	1.7	51
141	A square-planar nickel dithiolate complex as an efficient molecular catalyst for the electro- and photoreduction of protons. Chemical Communications, 2017, 53, 7007-7010.	2.2	51
142	Preparation of a starch-graft-acrylamide/kaolinite superabsorbent composite and the influence of the hydrophilic group on its water absorbency. Polymer International, 2003, 52, 1909-1912.	1.6	50
143	Noble-metal-free BODIPYâ€“cobaloxime photocatalysts for visible-light-driven hydrogen production. Physical Chemistry Chemical Physics, 2014, 16, 23884-23894.	1.3	50
144	The synthesis and electrical conductivity of a polyacrylate/graphite hydrogel. Reactive and Functional Polymers, 2007, 67, 275-281.	2.0	49

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145	Low temperature synthesis and photocatalytic properties of highly oriented ZnO/TiO2â^'xNy coupled photocatalysts. Applied Catalysis B: Environmental, 2012, 123-124, 9-17.	10.8	49
146	Hydrothermal synthesis of graphene flake embedded nanosheet-like molybdenum sulfide hybrids as counter electrode catalysts for dye-sensitized solar cells. Materials Chemistry and Physics, 2013, 143, 53-59.	2.0	49
147	A Reversible Redox Strategy for SWCNTâ€Based Supercapacitors Using a Highâ€Performance Electrolyte. ChemPhysChem, 2013, 14, 394-399.	1.0	49
148	Ti3C2T MXene supported SnO2 quantum dots with oxygen vacancies as anode for Li-ion capacitors. Chemical Engineering Journal, 2022, 428, 131993.	6.6	49
149	Synthesis of polyacrylate/polyethylene glycol interpenetrating network hydrogel and its sorption of heavy-metal ions. Science and Technology of Advanced Materials, 2009, 10, 015002.	2.8	47
150	Colloidal synthesis of Y-doped SnO2 nanocrystals for efficient and slight hysteresis planar perovskite solar cells. Solar Energy, 2019, 185, 508-515.	2.9	47
151	Glucose aided synthesis of molybdenum sulfide/carbon nanotubes composites as counter electrode for high performance dye-sensitized solar cells. Electrochimica Acta, 2013, 112, 655-662.	2.6	46
152	Improving the photovoltaic performance of dye-sensitized solar cell by graphene/titania photoanode. Electrochimica Acta, 2015, 156, 261-266.	2.6	46
153	Solvothermal fabrication of La-WO3/SrTiO3 heterojunction with high photocatalytic performance under visible light irradiation. Solar Energy Materials and Solar Cells, 2018, 176, 230-238.	3.0	46
154	Regulation of Interfacial Charge Transfer and Recombination for Efficient Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900198.	3.1	46
155	Preparation and water absorbency of a novel poly(acrylate-co-acrylamide)/vermiculite superabsorbent composite. Journal of Applied Polymer Science, 2007, 104, 735-739.	1.3	45
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157	Preparation of PAA-g-CTAB/PANI polymer based gel-electrolyte and the application in quasi-solid-state dye-sensitized solar cells. Electrochimica Acta, 2011, 58, 52-57.	2.6	45
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