Yaoming Xiao

List of Publications by Year
in descending order

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117 papers	4,441 citations	101543 36 h-index	118850 62 g-index
117 all docs	117 docs citations	117 times ranked	5302 citing authors

#	Article	IF	Citations
1	Interfacial chemical bridge constructed by l-cysteine for highly efficient perovskite solar cells. Materials Research Bulletin, 2022, 149, 111698.	5.2	16
2	Potassium nitrilotriacetate as a multifunctional modifier of the buried interface for hysteresis-reduced perovskite solar cells. Chemical Communications, 2022, 58, 5638-5641.	4.1	7
3	Codoping triiodide anion in polypyrrole cathode: An effective route to increase the capacity of zinc-ion battery. Journal of Electroanalytical Chemistry, 2022, 912, 116232.	3.8	5
4	Use of organic bulk-heterojunction solar cells as selective contacts in wide band-gap perovskite solar cells: advantages and limitations. Journal of Materials Chemistry A, 2021, 9, 13979-13985.	10.3	5
5	Analysis of the Oxygen Passivation Effects on MAPbI₃and MAPbBr₃in Fresh and Aged Solar Cells by the Transient Photovoltage Technique. ChemPlusChem, 2021, 86, 1316-1321.	2.8	8
6	Enhanced stability and solar cell performance via Ï€-conjugated Lewis base passivation of organic inorganic lead halide perovskites. Organic Electronics, 2020, 77, 105519.	2.6	17
7	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. Angewandte Chemie, 2020, 132, 21593-21597.	2.0	1
8	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. Angewandte Chemie - International Edition, 2020, 59, 21409-21413.	13.8	33
9	Potential-reversal electrodeposited MoS2 thin film as an efficient electrocatalytic material for bifacial dye-sensitized solar cells. Solar Energy, 2020, 206, 163-170.	6.1	16
10	Enhanced stability and efficiency of perovskite solar cells via bifunctional group passivation with thiosalicylic acid. Organic Electronics, 2020, 81, 105681.	2.6	18
11	Synthesis of ternary nickel cobalt phosphide nanowires through phosphorization for use in platinum-free dye-sensitized solar cells. Journal of Alloys and Compounds, 2019, 771, 117-123.	5.5	15
12	Synergistic effect of guanidine thiocyanate additive and dimethyl sulfoxide post-treatment towards efficient and stable perovskite solar cell. Thin Solid Films, 2019, 689, 137495.	1.8	1
13	Enhanced efficiency and stability of perovskite solar cells by synergistic effect of magnesium acetate introducing into CH3NH3PbI3. Materials Science in Semiconductor Processing, 2019, 104, 104671.	4.0	8
14	Depositing reduced graphene oxide on electroless plating Ni/organic polymer fibrous membrane for flexible supercapacitors. Journal of Electroanalytical Chemistry, 2019, 851, 113466.	3.8	3
15	The properties of highly compressible electrochemical capacitors based on polypyrrole/melamine sponge-carbon fibers. Journal of Alloys and Compounds, 2019, 786, 668-676.	5.5	11
16	The Applications of Polymers in Solar Cells: A Review. Polymers, 2019, 11, 143.	4.5	146
17	Preparing Ni3S2 composite with neural network-like structure for high-performance flexible asymmetric supercapacitors. Electrochimica Acta, 2019, 317, 322-332.	5.2	26
18	Flexible supercapacitor electrode with high performance prepared from graphene oxide films assembled in the presence of p-phenylenediamine and urea. Journal of Materials Science: Materials in Electronics, 2019, 30, 7216-7225.	2.2	3

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19	Performance enhancement of perovskite solar cells using trimesic acid additive in the two-step solution method. Journal of Power Sources, 2019, 426, 11-15.	7.8	38
20	Asymmetric supercapacitor based on reduced graphene oxide/MnO2 and polypyrrole deposited on carbon foam derived from melamine sponge. Journal of Physics and Chemistry of Solids, 2019, 130, 100-110.	4.0	29
21	Dimethyl sulfoxide and bromide methylamine co-treatment inducing defect healing for effective and stable perovskite solar cells. Materials Research Bulletin, 2019, 112, 165-173.	5.2	13
22	Effects of methylammonium acetate on the perovskite film quality for the perovskite solar cell. Organic Electronics, 2019, 65, 201-206.	2.6	30
23	Purified nitrogen-doped reduced graphene oxide hydrogels for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2019, 834, 206-215.	3.8	22
24	Electrodeposition of nanostructured TiO2 thin film as an efficient bifunctional layer for perovskite solar cells. Electrochimica Acta, 2019, 295, 662-667.	5.2	16
25	One-step hydrothermal synthesis of feather duster-like NiS@MoS2 with hierarchical array structure for the Pt-free dye-sensitized solar cell. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	12
26	Stable and near-infrared absorption enhanced dye-sensitized solar cell based on silver nanoplates@silica nanocrystals. Materials Research Bulletin, 2018, 104, 164-172.	5.2	6
27	Electrochemical formation of TiO2 porous layer for perovskite solar cells. Thin Solid Films, 2018, 660, 720-724.	1.8	5
28	Investigation of carbon coating approach on electrochemical performance of Li4Ti5O12/C composite anodes for high-rate lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 1851-1861.	2.5	18
29	Effective iron-molybdenum-disulfide counter electrodes for use in platinum-free dye-sensitized solar cells. Science China Materials, 2018, 61, 1278-1284.	6.3	9
30	Polypyrrole/graphene oxide deposited on two metalized surfaces of porous polypropylene films as all-in-one flexible supercapacitors. Electrochimica Acta, 2018, 270, 490-500.	5.2	71
31	Dimethyl sulfoxide post-treatment inducing defect healing and crystal growth for effective perovskite solar cells. Materials Letters, 2018, 230, 170-172.	2.6	7
32	The dye-sensitized solar cells based on the interconnected ternary cobalt diindium sulfide nanosheet array counter electrode. Materials Research Bulletin, 2018, 107, 204-212.	5.2	25
33	Fabricating reduced graphene oxide films with high volumetric capacitive performances via thermal and acid treatment. Journal of Materials Science, 2018, 53, 12295-12309.	3.7	5
34	Integrated flexible supercapacitor based on poly (3, 4-ethylene dioxythiophene) deposited on Au/porous polypropylene film/Au. Journal of Power Sources, 2018, 395, 228-236.	7.8	38
35	Honeycomb-like poly(3,4-ethylenedioxythiophene) as an effective and transparent counter electrode in bifacial dye-sensitized solar cells. Journal of Power Sources, 2017, 342, 709-716.	7.8	41
36	Enhanced photovoltaic performances of the dye-sensitized solar cell by utilizing rare-earth modified tin oxide compact layer. Organic Electronics, 2017, 43, 121-129.	2.6	33

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37	Electrospun ytterbium and europium ions co-doped stannic oxide nanofibers and application in dye-sensitized solar cells. Materials Research Bulletin, 2017, 92, 90-98.	5.2	10
38	Honeycomb-like polypyrrole/multi-wall carbon nanotube films as an effective counter electrode in bifacial dye-sensitized solar cells. Journal of Materials Science, 2017, 52, 8421-8431.	3.7	17
39	Semitransparent, flexible electrochemical capacitors with excellent stability fabricated with polypyrroleâ€“titanium mesh electrodes. Journal of Applied Polymer Science, 2017, 134, 45235.	2.6	2
40	An Interconnected Ternary MIn₂S₄ (M=Fe, Co, Ni) Thiospinel Nanosheet Array: A Type of Efficient Platinumâ€Free Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 9146-9150.	13.8	88
41	An Interconnected Ternary MIn₂S₄ (M=Fe, Co, Ni) Thiospinel Nanosheet Array: A Type of Efficient Platinumâ€Free Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2017, 129, 9274-9278.	2.0	49
42	Flexible and compressible electrochemical capacitors based on polypyrrole/carbon fibers integrated into sponge. Journal of Alloys and Compounds, 2017, 708, 1206-1215.	5.5	22
43	Internal tandem flexible and compressible electrochemical capacitor based on polypyrrole/carbon fibers. Electrochimica Acta, 2017, 257, 335-344.	5.2	20
44	Capacitive Properties of the Binderâ€Free Electrode Prepared from Carbon Derived from Cotton and Reduced Graphene Oxide. Chinese Journal of Chemistry, 2017, 35, 1844-1852.	4.9	5
45	High-performance supercapacitors based on the reduced graphene oxide hydrogels modified by trace amounts of benzenediols. Chemical Engineering Journal, 2017, 328, 25-34.	12.7	34
46	Multifunctional stannum oxide compact bilayer modified by europium and erbium respectively doped ytterbium fluoride for high-performance dye-sensitized solar cell. Electrochimica Acta, 2017, 248, 333-341.	5.2	7
47	Facile Synthesis of Pdâ€Ni Nanoparticles on Reduced Graphene Oxide under Microwave Irradiation for Formic Acid Oxidation. Chinese Journal of Chemistry, 2017, 35, 1405-1410.	4.9	15
48	A transparent honeycomb-like poly(3,4-ethylenedioxythiophene)/multi-wall carbon nanotube counter electrode for bifacial dye-sensitized solar cells. Organic Electronics, 2017, 50, 161-169.	2.6	21
49	Synthesis of highly active cobalt molybdenum sulfide nanosheets by a one-step hydrothermal method for use in dye-sensitized solar cells. Journal of Materials Science, 2017, 52, 13541-13551.	3.7	20
50	Moiety effect on the luminescent property of star-shaped triphenylamine (TPA) derivatives as mechanochromic materials. RSC Advances, 2017, 7, 35672-35680.	3.6	12
51	Acetylcholinesterase biosensor based on electrochemically inducing 3D graphene oxide network/multi-walled carbon nanotube composites for detection of pesticides. RSC Advances, 2017, 7, 53570-53577.	3.6	54
52	Properties of Porous Carbon Derived from Cornstalk Core in Highâ€Performance Electrochemical Capacitors. ChemElectroChem, 2016, 3, 323-331.	3.4	35
53	Flexible electrochemical capacitors based on polypyrrole/carbon fibers via chemical polymerization of pyrrole vapor. Applied Surface Science, 2016, 377, 274-282.	6.1	29
54	Facile synthesis of an Al-doped carbon-coated Li₄Ti₅O₁₂ anode for high-rate lithium-ion batteries. RSC Advances, 2016, 6, 77151-77160.	3.6	15

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55	Sulfonated Graphene Synthesized via a Green Route and Its Capacitive Properties. Chinese Journal of Chemistry, 2016, 34, 98-106.	4.9	7
56	Titanium dioxide/zinc indium sulfide hetero-junction: An efficient photoanode for the dye-sensitized solar cell. Journal of Power Sources, 2016, 328, 578-585.	7.8	16
57	Performance of flexible capacitors based on polypyrrole/carbon fiber electrochemically prepared from various phosphate electrolytes. Applied Surface Science, 2016, 387, 902-911.	6.1	17
58	High performance platinum nanofibers with interconnecting structure using in dye-sensitized solar cells. Organic Electronics, 2016, 37, 239-244.	2.6	13
59	Multifunctional Rareâ€Earthâ€Doped Tin Oxide Compact Layers for Improving Performances of Photovoltaic Devices. Advanced Materials Interfaces, 2016, 3, 1600881.	3.7	16
60	Serrated, flexible and ultrathin polyaniline nanoribbons: An efficient counter electrode for the dye-sensitized solar cell. Journal of Power Sources, 2016, 322, 155-162.	7.8	46
61	Monolithic porous carbon derived from polyvinyl alcohol for electrochemical double layer capacitors. Electrochimica Acta, 2016, 188, 175-183.	5.2	16
62	Capacitive Performances of Reduced Graphene Oxide Hydrogel Prepared by Using Sodium Hypophosphite as Reducer. Chinese Journal of Chemistry, 2016, 34, 89-97.	4.9	10
63	Effect of starting materials on electrochemical performance of sol-gel-synthesized Li4Ti5O12 anode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2016, 20, 1625-1631.	2.5	16
64	Electro-polymerization of polypyrrole/multi-wall carbon nanotube counter electrodes for use in platinum-free dye-sensitized solar cells. Electrochimica Acta, 2016, 190, 720-728.	5.2	42
65	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.	7.8	61
66	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.	3.6	51
67	Preparation of mesoporous titanium dioxide anode by a film- and pore-forming agent for the dye-sensitized solar cell. Materials Research Bulletin, 2016, 76, 140-146.	5.2	15
68	Nickel sulfide counter electrodes enhanced by hydrosulphuric acid hydrothermal treatments for use in Pt-free dye-sensitized solar cells. Electrochimica Acta, 2015, 155, 103-109.	5.2	33
69	Cobalt sulfide counter electrodes enhanced by a hydro-thermal treatment for use in platinum-free dye-sensitized solar cells. Materials Research Bulletin, 2015, 68, 9-15.	5.2	17
70	Efficiently cubic platinum-cobalt bimetallic nano-catalysts for use in low-cost dye-sensitized solar cells. Electrochimica Acta, 2015, 174, 770-777.	5.2	10
71	Polypyrrole doped with dodecyl benzene sulfonate electrodeposited on carbon fibers for flexible capacitors with high-performance. Electrochimica Acta, 2015, 176, 594-603.	5.2	36
72	Efficient hydrothermal-processed platinumâ€“nickel bimetallic nano-catalysts for use in dye-sensitized solar cells. Journal of Power Sources, 2015, 294, 8-15.	7.8	30

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73	Investigation of perovskite-sensitized nanoporous titanium dioxide photoanodes with different thicknesses in perovskite solar cells. Journal of Power Sources, 2015, 286, 118-123.	7.8	72
74	A comparative study on long and short carbon nanotubes-incorporated polypyrrole/poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Metals, 2015, 209, 405-411.	3.9	39
75	Three-dimensional hollow platinumâ€“nickel bimetallic nanoframes for use in dye-sensitized solar cells. Journal of Power Sources, 2015, 278, 149-155.	7.8	41
76	Highly stable multi-wall carbon nanotubes@poly(3,4-ethylenedioxythiophene)/poly(styrene sulfonate) coreâ€“shell composites with three-dimensional porous nano-network for electrochemical capacitors. Journal of Power Sources, 2015, 274, 229-236.	7.8	61
77	Effects of thiourea concentration on electrocatalytic performances of nickel sulfide counter electrodes for use in dye-sensitized solar cells. Materials Research Bulletin, 2015, 61, 326-332.	5.2	12
78	High performance of Pt-free dye-sensitized solar cells based on two-step electropolymerized polyaniline counter electrodes. Journal of Materials Chemistry A, 2014, 2, 3452-3460.	10.3	80
79	Mesoporous carbon nanofibers with large cage-like pores activated by tin dioxide and their use in supercapacitor and catalyst support. Carbon, 2014, 70, 295-307.	10.3	111
80	Using formic acid vapor as reducer to prepare Pt nanoparticles supported on carbon nanofiber mats for methanol electrooxidation. Catalysis Communications, 2014, 51, 86-89.	3.3	4
81	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.	10.3	81
82	Low temperature fabrication of high performance p-n junction on the Ti foil for use in large-area flexible dye-sensitized solar cells. Electrochimica Acta, 2014, 117, 1-8.	5.2	12
83	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.	10.3	62
84	Facile preparation of polypyrrole/graphene oxide nanocomposites with large areal capacitance using electrochemical codeposition forÂsupercapacitors. Journal of Power Sources, 2014, 263, 259-267.	7.8	235
85	One-pot synthesis of PdBi/reduced graphene oxide catalyst under microwave irradiation used for formic acid electrooxidation. Catalysis Communications, 2014, 46, 146-149.	3.3	18
86	Multiwalled carbon nanotubes/polypyrrole/graphene/nonwoven fabric composites used as electrodes of electrochemical capacitor. Journal of Applied Polymer Science, 2014, 131, .	2.6	11
87	An all-solid-state perovskite-sensitized solar cell based on the dual function polyaniline as the sensitizer and p-type hole-transporting material. Journal of Power Sources, 2014, 267, 1-8.	7.8	130
88	Efficiency improvement of flexible dye-sensitized solar cells by introducing mesoporous TiO2 microsphere. Science China Chemistry, 2013, 56, 1470-1477.	8.2	6
89	A dye-sensitized solar cell based on PEDOT:PSS counter electrode. Science Bulletin, 2013, 58, 559-566.	1.7	36
90	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.	10.3	89

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91	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.	7.8	83
92	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.	10.3	185
93	A dual function of high performance counter-electrode for stable quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2013, 241, 373-378.	7.8	35
94	Quantum dot-sensitized solar cells employing Pt/C60 counter electrode provide an efficiency exceeding 2%. Science China Chemistry, 2013, 56, 93-100.	8.2	5
95	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.	10.3	95
96	Dual functions of YF3:Eu3+ for improving photovoltaic performance of dye-sensitized solar cells. Scientific Reports, 2013, 3, 2058.	3.3	80
97	Enhanced performance of low-cost dye-sensitized solar cells with pulse-electropolymerized polyaniline counter electrodes. Electrochimica Acta, 2013, 90, 468-474.	5.2	65
98	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.	5.2	152
99	Application of Poly(3,4-ethylenedioxythiophene):Polystyrenesulfonate/Polypyrrole Counter Electrode for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 18057-18063.	3.1	108
100	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
101	Preparation of a three-dimensional interpenetrating network of TiO2 nanowires for large-area flexible dye-sensitized solar cells. RSC Advances, 2012, 2, 10550.	3.6	17
102	Electrodeposition of high performance PEDOT/Ti counter electrodes on Ti meshes for large-area flexible dye-sensitized solar cells. Electrochimica Acta, 2012, 85, 432-437.	5.2	36
103	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.	8.0	94
104	Template-free synthesis of a hierarchical flower-like platinum counter electrode and its application in dye-sensitized solar cells. RSC Advances, 2012, 2, 5034.	3.6	22
105	Application of Y₂O₃:Er³⁺ Nanorods in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2012, 5, 1307-1312.	6.8	64
106	Low temperature fabrication of high performance and transparent Pt counter electrodes for use in flexible dye-sensitized solar cells. Science Bulletin, 2012, 57, 2329-2334.	1.7	10
107	Preparation of titanium dioxide-double-walled carbon nanotubes and its application in flexible dye-sensitized solar cells. Frontiers of Optoelectronics, 2012, 5, 224-230.	3.7	9
108	The surface treatment of Ti meshes for use in large-area flexible dye-sensitized solar cells. Journal of Power Sources, 2012, 208, 197-202.	7.8	31

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109	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.	21.0	146
110	Low temperature preparation of a high performance Pt/SWCNT counter electrode for flexible dye-sensitized solar cells. Electrochimica Acta, 2011, 56, 8545-8550.	5.2	68
111	Application of Poly (3, 4-ethylenedioxythiophene): polystyrenesulfonate counter electrode in polymer heterojunction dye-sensitized solar cells. Frontiers of Optoelectronics in China, 2011, 4, 369-377.	0.2	4
112	Flexible solar cells based on PCBM/P3HT heterojunction. Frontiers of Optoelectronics in China, 2011, 4, 108-113.	0.2	6
113	Flexible dye-sensitized solar cell based on PCBM/P3HT heterojunction. Science Bulletin, 2011, 56, 325-330.	1.7	38
114	Application of upconversion luminescence in dye-sensitized solar cells. Science Bulletin, 2011, 56, 96-101.	1.7	36
115	Preparation of porous nanoparticle TiO2 films for flexible dye-sensitized solar cells. Science Bulletin, 2011, 56, 2649-2653.	1.7	16
116	Preparation of Gd2O3:Eu3+ downconversion luminescent material and its application in dye-sensitized solar cells. Science Bulletin, 2011, 56, 3114-3118.	1.7	31
117	The preparation of titania nanotubes and its application in flexible dye-sensitized solar cells. Electrochimica Acta, 2010, 55, 4573-4578.	5.2	52