

Jiale Xie

List of Publications by Year in descending order

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44
papers

1,718
citations

361296
20
h-index

276775
41
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docs citations

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times ranked

3208
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemically Coupled Fe ₂ O ₃ /Graphene Hydrogel as Binder-Free Anode Material for Stable Ni-Fe Battery with High Energy and Power Density. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	3
2	Oxidation state modulation of CoMOF with Zn for accelerating photoelectrochemical water oxidation of borate-irradiation treated BiVO ₄ . <i>Electrochimica Acta</i> , 2022, 421, 140483.	2.6	5
3	High-Quality Coating of Conformal and Oriented Metal-Organic Framework Cocatalyst Layer for Efficient Photoelectrocatalysis. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101069.	1.9	8
4	Defective Metal-Organic Framework Assisted with Nitrogen Doping Enhances the Photoelectrochemical Performance of BiVO ₄ . <i>ACS Applied Energy Materials</i> , 2021, 4, 13199-13207.	2.5	17
5	Coaxial Cable-Like Carbon Nanotubes-Based Active Fibers for Highly Capacitive and Stable Supercapacitor. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000949.	1.9	16
6	Cobalt Metal-Organic Framework Ultrathin Cocatalyst Overlayer for Improved Photoelectrochemical Activity of Ti-Doped Hematite. <i>ACS Applied Energy Materials</i> , 2020, 3, 4867-4876.	2.5	25
7	Nanostructuring Co ₃ O ₄ to Tune Capacitive Behaviors: From Low to High Dimensions. <i>ChemistrySelect</i> , 2020, 5, 3638-3643.	0.7	1
8	Recent progress in carbon-based materials as catalysts for electrochemical and photocatalytic water splitting. , 2019, , 173-200.		2
9	Tailoring surface states by sequential doping of Ti and Mg for kinetically enhanced hematite photoanode. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 441-450.	5.0	16
10	Biowaste-Derived Three-Dimensional Porous Network Carbon and Bioseparator for High-Performance Asymmetric Supercapacitor. <i>ACS Applied Energy Materials</i> , 2018, 1, 616-622.	2.5	44
11	Hydrothermally Treating High-Ti Cinder for a Near Full-Sunlight-Driven Photocatalyst toward Highly Efficient H ₂ Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5076-5084.	3.2	2
12	Evaluating the Role of Nanostructured Current Collectors in Energy Storage Capability of Supercapacitor Electrodes with Thick Electroactive Materials Layers. <i>Advanced Functional Materials</i> , 2018, 28, 1705107.	7.8	62
13	Puzzles and confusions in supercapacitor and battery: Theory and solutions. <i>Journal of Power Sources</i> , 2018, 401, 213-223.	4.0	220
14	Self-Improvement of Ti:Fe ₂ O ₃ Photoanodes: Photoelectrocatalysis Improvement after Long-Term Stability Testing in Alkaline Electrolyte. <i>ACS Applied Energy Materials</i> , 2018, 1, 2769-2775.	2.5	44
15	FeCoW multimetal oxide-coated BiVO ₄ photoanode for efficient oxygen evolution. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2053-2059.	2.5	9
16	Significantly improve photoelectrochemical performance of Ti:Fe ₂ O ₃ with CdSe modification and surface oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14130-14139.	3.8	6
17	Self-assembling reduced graphene quantum dots on hematite photoanode for passivating surface states toward significantly improved water splitting. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7158-7165.	3.8	20
18	Soft- to network hard-material for constructing both ion- and electron-conductive hierarchical porous structure to significantly boost energy density of a supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 137-143.	5.0	15

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19	DNA@Mn ₃ (PO ₄) ₂ Nanoparticles Supported with Graphene Oxide as Photoelectrodes for Photoelectrocatalysis. <i>Nanoscale Research Letters</i> , 2017, 12, 17.	3.1	14
20	MoO ₂ nanosheets embedded in amorphous carbon matrix for sodium-ion batteries. <i>Royal Society Open Science</i> , 2017, 4, 170892.	1.1	13
21	Hydrothermally hollow SnO ₂ microspheres as sodium ion battery anode with high capacity and superior stability. <i>Micro and Nano Letters</i> , 2017, 12, 777-780.	0.6	13
22	Chlorinated fluorine doped tin oxide electrodes with high work function for highly efficient planar perovskite solar cells. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	6
23	Bi-functional ferroelectric BiFeO ₃ passivated BiVO ₄ photoanode for efficient and stable solar water oxidation. <i>Nano Energy</i> , 2017, 31, 28-36.	8.2	150
24	Layered Na ₂ Ti ₂ O ₄ (OH) ₂ and K ₂ Ti ₂ O ₄ (OH) ₂ Nanoarrays for Na/Li-Ion Intercalation Systems: Effect of Ion Size. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2203-A2210.	1.3	8
25	Biomass-Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Direct Electron-Transfer-Based Glucose Sensing. <i>ChemElectroChem</i> , 2016, 3, 144-151.	1.7	26
26	Polymer-Mediated Self-Assembly of TiO ₂ @Cu ₂ O Core-Shell Nanowire Array for Highly Efficient Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6082-6092.	4.0	105
27	Controllable in situ synthesis of silver nanoparticles on multilayered film-coated silk fibers for antibacterial application. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 369-375.	5.0	61
28	Au@CdS Core-Shell Nanoparticles-Modified ZnO Nanowires Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2015, 2, 1500135.	5.6	77
29	Architecting smart umbrella-Bi ₂ S ₃ /rGO-modified TiO ₂ nanorod array structures at the nanoscale for efficient photoelectrocatalysis under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1235-1242.	5.2	103
30	Tailoring Co(OH) ₂ hollow nanostructures via Cu ₂ O template etching for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 212-217.	5.0	17
31	Modification of a thin layer of γ -Fe ₂ O ₃ onto a largely voided TiO ₂ nanorod array as a photoanode to significantly improve the photoelectrochemical performance toward water oxidation. <i>RSC Advances</i> , 2015, 5, 62611-62618.	1.7	29
32	Fluffy-ball-shaped carbon nanotube-TiO ₂ nanorod nanocomposites for photocatalytic degradation of methylene blue. <i>RSC Advances</i> , 2015, 5, 42580-42586.	1.7	16
33	Solvent-mediated directionally self-assembling MoS ₂ nanosheets into a novel worm-like structure and its application in sodium batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9932-9937.	5.2	74
34	Hierarchically porous graphitic carbon nitride: large-scale facile synthesis and its application toward photocatalytic dye degradation. <i>RSC Advances</i> , 2014, 4, 59436-59439.	1.7	54
35	DNA-Templated Biomimetic Enzyme Sheets on Carbon Nanotubes to Sensitive In Situ Detect Superoxide Anions Released from Cells. <i>Advanced Functional Materials</i> , 2014, 24, 5897-5903.	7.8	59
36	One-pot synthesis of one-dimensional CdTe-cystine nanocomposite for humidity sensing. <i>Nanotechnology</i> , 2014, 25, 115703.	1.3	1

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37	Interface functionalization with polymer self-assembly to boost photovoltage of Cu ₂ O/ZnO nanowires solar cells. International Journal of Hydrogen Energy, 2014, 39, 16227-16233.	3.8	13
38	Bi ₂ S ₃ nanorods modified with Co(OH) ₂ ultrathin nanosheets to significantly improve its pseudocapacitance for high specific capacitance. RSC Advances, 2014, 4, 48666-48670.	1.7	22
39	UV-assisted in situ synthesis of silver nanoparticles on silk fibers for antibacterial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 447, 1-7.	2.3	68
40	Direct Observation of Molecular Orbitals in an Individual Single-Molecule Magnet Mn ₁₂ on Bi(111). ACS Nano, 2013, 7, 6825-6830.	7.3	19
41	Ga doping to significantly improve the performance of all-electrochemically fabricated Cu ₂ O@ZnO nanowire solar cells. Physical Chemistry Chemical Physics, 2013, 15, 15905.	1.3	28
42	A new class of fluorescent-dots: long luminescent lifetime bio-dots self-assembled from DNA at low temperatures. Scientific Reports, 2013, 3, 2957.	1.6	65
43	Graphene Quantum-Dot-Doped Polypyrrole Counter Electrode for High-Performance Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 2047-2052.	4.0	162
44	Transparently Passivating Catalyst of Hydrated Manganese Phosphate for Photoelectrochemical O ₂ Generation. ACS Applied Energy Materials, 0, .	2.5	0