

# 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  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Puzzles and confusions in supercapacitor and battery: Theory and solutions. Journal of Power Sources, 2018, 401, 213-223.	4.0	220
2	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
3	Bi-functional ferroelectric BiFeO <sub>3</sub> passivated BiVO <sub>4</sub> photoanode for efficient and stable solar water oxidation. Nano Energy, 2017, 31, 28-36.	8.2	150
4	Polymer-Mediated Self-Assembly of TiO <sub>2</sub> @Cu <sub>2</sub> O Core-Shell Nanowire Array for Highly Efficient Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 6082-6092.	4.0	105
5	Architecting smart "umbrella"-Bi <sub>2</sub> S <sub>3</sub> /rGO-modified TiO <sub>2</sub> nanorod array structures at the nanoscale for efficient photoelectrocatalysis under visible light. Journal of Materials Chemistry A, 2015, 3, 1235-1242.	5.2	103
6	Au@CdS Core-Shell Nanoparticles-Modified ZnO Nanowires Photoanode for Efficient Photoelectrochemical Water Splitting. Advanced Science, 2015, 2, 1500135.	5.6	77
7	Solvent-mediated directionally self-assembling MoS <sub>2</sub> nanosheets into a novel worm-like structure and its application in sodium batteries. Journal of Materials Chemistry A, 2015, 3, 9932-9937.	5.2	74
8	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
9	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
10	Evaluating the Role of Nanostructured Current Collectors in Energy Storage Capability of Supercapacitor Electrodes with Thick Electroactive Materials Layers. Advanced Functional Materials, 2018, 28, 1705107.	7.8	62
11	Controllable in situ synthesis of silver nanoparticles on multilayered film-coated silk fibers for antibacterial application. Journal of Colloid and Interface Science, 2016, 461, 369-375.	5.0	61
12	DNA-Templated Biomimetic Enzyme Sheets on Carbon Nanotubes to Sensitively In Situ Detect Superoxide Anions Released from Cells. Advanced Functional Materials, 2014, 24, 5897-5903.	7.8	59
13	Hierarchically porous graphitic carbon nitride: large-scale facile synthesis and its application toward photocatalytic dye degradation. RSC Advances, 2014, 4, 59436-59439.	1.7	54
14	Biowaste-Derived Three-Dimensional Porous Network Carbon and Bioseparator for High-Performance Asymmetric Supercapacitor. ACS Applied Energy Materials, 2018, 1, 616-622.	2.5	44
15	Self-Improvement of Ti:Fe <sub>2</sub> O <sub>3</sub> Photoanodes: Photoelectrocatalysis Improvement after Long-Term Stability Testing in Alkaline Electrolyte. ACS Applied Energy Materials, 2018, 1, 2769-2775.	2.5	44
16	Modification of a thin layer of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> onto a largely voided TiO <sub>2</sub> nanorod array as a photoanode to significantly improve the photoelectrochemical performance toward water oxidation. RSC Advances, 2015, 5, 62611-62618.	1.7	29
17	Ga doping to significantly improve the performance of all-electrochemically fabricated Cu <sub>2</sub> O-ZnO nanowire solar cells. Physical Chemistry Chemical Physics, 2013, 15, 15905.	1.3	28
18	Biomass-Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Direct-Electron-Transfer-Based Glucose Sensing. ChemElectroChem, 2016, 3, 144-151.	1.7	26

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19	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
20	Bi <sub>2</sub> S <sub>3</sub> nanorods modified with Co(OH) <sub>2</sub> ultrathin nanosheets to significantly improve its pseudocapacitance for high specific capacitance. <i>RSC Advances</i> , 2014, 4, 48666-48670.	1.7	22
21	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
22	Direct Observation of Molecular Orbitals in an Individual Single-Molecule Magnet Mn <sub>12</sub> on Bi(111). <i>ACS Nano</i> , 2013, 7, 6825-6830.	7.3	19
23	Tailoring Co(OH) <sub>2</sub> hollow nanostructures via Cu <sub>2</sub> O template etching for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 212-217.	5.0	17
24	Defective Metal-Organic Framework Assisted with Nitrogen Doping Enhances the Photoelectrochemical Performance of BiVO <sub>4</sub> . <i>ACS Applied Energy Materials</i> , 2021, 4, 13199-13207.	2.5	17
25	Fluffy-ball-shaped carbon nanotube-TiO <sub>2</sub> nanorod nanocomposites for photocatalytic degradation of methylene blue. <i>RSC Advances</i> , 2015, 5, 42580-42586.	1.7	16
26	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
27	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
28	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
29	DNA@Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> Nanoparticles Supported with Graphene Oxide as Photoelectrodes for Photoelectrocatalysis. <i>Nanoscale Research Letters</i> , 2017, 12, 17.	3.1	14
30	Interface functionalization with polymer self-assembly to boost photovoltage of Cu <sub>2</sub> O/ZnO nanowires solar cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16227-16233.	3.8	13
31	MoO <sub>2</sub> nanosheets embedded in amorphous carbon matrix for sodium-ion batteries. <i>Royal Society Open Science</i> , 2017, 4, 170892.	1.1	13
32	Hydrothermally hollow SnO <sub>2</sub> 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
33	FeCoW multimetal oxide-coated BiVO <sub>4</sub> photoanode for efficient oxygen evolution. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2053-2059.	2.5	9
34	Layered Na <sub>2</sub> Ti <sub>2</sub> O <sub>4</sub> (OH) <sub>2</sub> and K <sub>2</sub> Ti <sub>2</sub> O <sub>4</sub> (OH) <sub>2</sub> 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
35	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
36	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

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37	Significantly improve photoelectrochemical performance of Ti:Fe <sub>2</sub> O <sub>3</sub> with CdSe modification and surface oxidation. International Journal of Hydrogen Energy, 2018, 43, 14130-14139.	3.8	6
38	Oxidation state modulation of CoMOF with Zn for accelerating photoelectrochemical water oxidation of borate-irradiation treated BiVO <sub>4</sub> . Electrochimica Acta, 2022, 421, 140483.	2.6	5
39	Chemically Coupled Fe <sub>2</sub> O <sub>3</sub> /Graphene Hydrogel as Binder-Free Anode Material for Stable Ni-Fe Battery with High Energy and Power Density. Batteries and Supercaps, 2022, 5, .	2.4	3
40	Hydrothermally Treating High-Ti Cinder for a Near Full-Sunlight-Driven Photocatalyst toward Highly Efficient H <sub>2</sub> Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 5076-5084.	3.2	2
41	Recent progress in carbon-based materials as catalysts for electrochemical and photocatalytic water splitting. , 2019, , 173-200.		2
42	One-pot synthesis of one-dimensional CdTe-cystine nanocomposite for humidity sensing. Nanotechnology, 2014, 25, 115703.	1.3	1
43	Nanostructuring Co <sub>3</sub> O <sub>4</sub> to Tune Capacitive Behaviors: From Low to High Dimensions. ChemistrySelect, 2020, 5, 3638-3643.	0.7	1
44	Transparently Passivating Catalyst of Hydrated Manganese Phosphate for Photoelectrochemical O <sub>2</sub> Generation. ACS Applied Energy Materials, 0, , .	2.5	0