

Li Zhang

List of Publications by Year in descending order

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40
papers

2,915
citations

218381

26
h-index

276539

41
g-index

41
all docs

41
docs citations

41
times ranked

4582
citing authors

#	ARTICLE	IF	CITATIONS
1	High Detectivity Graphene-Silicon Heterojunction Photodetector. <i>Small</i> , 2016, 12, 595-601.	5.2	370
2	Recent advances in transition-metal-sulfide-based bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5320-5363.	5.2	322
3	Cobalt phosphate-modified barium-doped tantalum nitride nanorod photoanode with 1.5% solar energy conversion efficiency. <i>Nature Communications</i> , 2013, 4, 2566.	5.8	306
4	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO ₂ on Porous CuInS ₂ Photocathodes Prepared by an Electrodeposition-Sulfurization Method. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11808-11812.	7.2	181
5	Cobalt and nickel selenide nanowalls anchored on graphene as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14789-14795.	5.2	150
6	Scalable Low-Band-Gap Sb ₂ Se ₃ Thin-Film Photocathodes for Efficient Visible-Near-Infrared Solar Hydrogen Evolution. <i>ACS Nano</i> , 2017, 11, 12753-12763.	7.3	127
7	Formation of Uniform Water Microdroplets on Wrinkled Graphene for Ultrafast Humidity Sensing. <i>Small</i> , 2018, 14, e1703848.	5.2	109
8	Total oxidation of propane on Pt/WO _x /Al ₂ O ₃ catalysts by formation of metastable Pt ⁺ species interacted with WO _x clusters. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 146-154.	6.5	102
9	High performance of stretchable carbon nanotube-polypyrrole fiber supercapacitors under dynamic deformation and temperature variation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9311-9318.	5.2	99
10	High performance carbon nanotube based fiber-shaped supercapacitors using redox additives of polypyrrole and hydroquinone. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22353-22360.	5.2	91
11	Durable hydrogen evolution from water driven by sunlight using (Ag,Cu)GaSe ₂ photocathodes modified with CdS and CuGa ₃ Se ₅ . <i>Chemical Science</i> , 2015, 6, 894-901.	3.7	89
12	Sponge-like nickel phosphide-carbon nanotube hybrid electrodes for efficient hydrogen evolution over a wide pH range. <i>Nano Research</i> , 2017, 10, 415-425.	5.8	73
13	Photo-Promoted Platinum Nanoparticles Decorated MoS ₂ @Graphene Woven Fabric Catalyst for Efficient Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10866-10873.	4.0	72
14	Solution-processed CuSbS ₂ thin film: A promising earth-abundant photocathode for efficient visible-light-driven hydrogen evolution. <i>Nano Energy</i> , 2016, 28, 135-142.	8.2	70
15	Hydrogen evolution from water using Ag _x Cu _{1-x} GaSe ₂ photocathodes under visible light. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6167.	1.3	66
16	Twin Structure in BiVO ₄ Photoanodes Boosting Water Oxidation Performance through Enhanced Charge Separation and Transport. <i>Advanced Energy Materials</i> , 2018, 8, 1802198.	10.2	61
17	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , 2020, 72, 104742.	8.2	58
18	A highly efficient Fe-doped Ni ₃ S ₂ electrocatalyst for overall water splitting. <i>Nano Research</i> , 2021, 14, 4740-4747.	5.8	52

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19	TiO ₂ enhanced ultraviolet detection based on a graphene/Si Schottky diode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8133-8138.	5.2	46
20	Bandgap-tunable double-perovskite thin films by solution processing. <i>Materials Today</i> , 2019, 28, 25-30.	8.3	45
21	Structural Diversity of Bulky Graphene Materials. <i>Small</i> , 2014, 10, 2200-2214.	5.2	41
22	Effects of sulfation on the activity of Ce _{0.67} Zr _{0.33} O ₂ supported Pt catalyst for propane oxidation. <i>Catalysis Communications</i> , 2010, 11, 1229-1232.	1.6	34
23	Highly Efficient NiFe Nanoparticle Decorated Si Photoanode for Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2019, 31, 171-178.	3.2	34
24	One-step synthesis of a hierarchical self-supported WS ₂ film for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22405-22411.	5.2	33
25	Heterostructures of titanium-based MXenes in energy conversion and storage devices. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8395-8465.	2.7	30
26	A porous graphene/polydimethylsiloxane composite by chemical foaming for simultaneous tensile and compressive strain sensing. <i>FlatChem</i> , 2018, 10, 1-7.	2.8	29
27	Efficient photoelectrochemical water oxidation enabled by an amorphous metal oxide-catalyzed graphene/silicon heterojunction photoanode. <i>Sustainable Energy and Fuels</i> , 2018, 2, 663-672.	2.5	25
28	Large scale self-assembly of SnSe nanosheets prepared by the hot-injection method for photodetector and capacitor applications. <i>Materials Today Energy</i> , 2019, 12, 418-425.	2.5	21
29	Full Inorganic Thin Film Solar Cell and Photodetector Based on Graphene Antimony Sulfide Heterostructure. <i>Solar Rrl</i> , 2017, 1, 1700135.	3.1	20
30	A Flexible Platform Containing Graphene Mesoporous Structure and Carbon Nanotube for Hydrogen Evolution. <i>Advanced Science</i> , 2016, 3, 1600208.	5.6	19
31	Self-deposition of Pt nanoparticles on graphene woven fabrics for enhanced hybrid Schottky junctions and photoelectrochemical solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1992-1997.	1.3	19
32	In situ electrodeposition of polypyrrole onto TaSe ₂ nanobelts quasi-arrays for high-capacitance supercapacitor. <i>Nanoscale</i> , 2018, 10, 17341-17346.	2.8	19
33	Morphology-controlled Tantalum Diselenide Structures as Self-optimizing Hydrogen Evolution Catalysts. <i>Energy and Environmental Materials</i> , 2020, 3, 12-18.	7.3	17
34	Rapid Liquid Recognition and Quality Inspection with Graphene Test Papers. <i>Global Challenges</i> , 2017, 1, 1700037.	1.8	15
35	All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. <i>Nanotechnology</i> , 2015, 26, 045401.	1.3	14
36	Mechanical sensors based on two-dimensional materials: Sensing mechanisms, structural designs and wearable applications. <i>IScience</i> , 2022, 25, 103728.	1.9	11

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37	Highly flexible, tailorable and all-solid-state supercapacitors from carbon nanotubeâ€MnO _x composite films. RSC Advances, 2015, 5, 89188-89194.	1.7	10
38	Nanoscale AgInTe ₂ /Si Truncated Quasitetrahedrons for Heterostructured Photodetectors. ACS Applied Nano Materials, 2021, 4, 5785-5795.	2.4	8
39	Chloride-intercalated continuous chemical vapor deposited graphene film with discrete adlayers. Nano Research, 2018, 11, 440-448.	5.8	7
40	Weyl-Semimetal TaIrTe ₄ /Si Nanostructures for Self-Powered Schottky Photodetectors. ACS Applied Nano Materials, 2022, 5, 6523-6531.	2.4	4