

Jizhou Jiang

List of Publications by Year in descending order

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54
papers

3,812
citations

109137

35
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149479

56
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all docs

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docs citations

57
times ranked

4080
citing authors

#	ARTICLE	IF	CITATIONS
1	Shedding light on the energy applications of emerging 2D hybrid organic-inorganic halide perovskites. <i>IScience</i> , 2022, 25, 103753.	1.9	9
2	Sulfur-doped g-C ₃ N ₄ /g-C ₃ N ₄ isotype step-scheme heterojunction for photocatalytic H ₂ evolution. <i>Journal of Materials Science and Technology</i> , 2022, 118, 15-24.	5.6	159
3	Additive-mediated intercalation and surface modification of MXenes. <i>Chemical Society Reviews</i> , 2022, 51, 2972-2990.	18.7	101
4	Controllable interface engineering of g-C ₃ N ₄ /CuS nanocomposite photocatalysts. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165020.	2.8	25
5	Strategic design and fabrication of MXenes-Ti ₃ CNCl ₂ @CoS ₂ core-shell nanostructure for high-efficiency hydrogen evolution. <i>Nano Research</i> , 2022, 15, 5977-5986.	5.8	61
6	Improving stability of MXenes. <i>Nano Research</i> , 2022, 15, 6551-6567.	5.8	87
7	Solvothermal preparation of CeO ₂ nanoparticles@graphene nanocomposites as an electrochemical sensor for sensitive detecting pentachlorophenol. <i>Carbon Letters</i> , 2022, 32, 1277-1285.	3.3	50
8	MXenes: An Emerging Platform for Wearable Electronics and Looking Beyond. <i>Matter</i> , 2021, 4, 377-407.	5.0	125
9	Atomic-Scale Superlubricity in Ti ₂ CO ₂ @MoS ₂ Layered Heterojunctions Interface: A First Principles Calculation Study. <i>ACS Omega</i> , 2021, 6, 9013-9019.	1.6	16
10	Highly Sensitive and Selective Gas Sensor Using Heteroatom Doping Graphdiyne: A DFT Study. <i>Advanced Electronic Materials</i> , 2021, 7, 2001244.	2.6	37
11	Irregularly Shaped Bimetallic Chalcogenide Ag ₈ SnS ₆ Nanoparticles as Electrocatalysts for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 6745-6751.	2.4	7
12	Computational screening study of double transition metal carbonitrides M ₂ CNO ₂ -MXene as catalysts for hydrogen evolution reaction. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	63
13	Strong Interlayer Transition in Few-Layer InSe/PdSe ₂ van der Waals Heterostructure for Near-Infrared Photodetection. <i>Advanced Functional Materials</i> , 2021, 31, 2104143.	7.8	69
14	Recent advances of MXenes as electrocatalysts for hydrogen evolution reaction. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	133
15	Oxygen vacancy mediated step-scheme heterojunction of WO _{2.9} /g-C ₃ N ₄ for efficient electrochemical sensing of 4-nitrophenol. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100175.	2.4	9
16	Intercalation engineering of MXenes towards highly efficient photo(electrocatalytic) hydrogen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24195-24214.	5.2	41
17	A dynamic anode boosting sulfamerazine mineralization <i>via</i> electrochemical oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 10, 192-208.	5.2	12
18	Uncovering the electrochemical mechanisms for hydrogen evolution reaction of heteroatom doped M ₂ C MXene (M = Ti, Mo). <i>Applied Surface Science</i> , 2020, 500, 143987.	3.1	93

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19	Reliable and selective lead-ion sensor of sulfur-doped graphitic carbon nitride nanoflakes. <i>Applied Surface Science</i> , 2020, 506, 144672.	3.1	37
20	Single-Metal Atoms Supported on MBenes for Robust Electrochemical Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9261-9267.	4.0	70
21	A cysteine derivative-enabled ultrafast thiol-ene reaction for scalable synthesis of a fully bio-based internal emulsifier for high-toughness waterborne polyurethanes. <i>Green Chemistry</i> , 2020, 22, 5722-5729.	4.6	38
22	Density Functional Theory Study of Single Metal Atoms Embedded into MBene for Electrocatalytic Conversion of N_2 to NH_3 . <i>ACS Applied Nano Materials</i> , 2020, 3, 9870-9879.	2.4	35
23	Space-Confined Growth of 2D InI Showing High Sensitivity in Photodetection. <i>Advanced Electronic Materials</i> , 2020, 6, 2000284.	2.6	14
24	Built-in electric field-assisted step-scheme heterojunction of carbon nitride-copper oxide for highly selective electrochemical detection of p-nonylphenol. <i>Electrochimica Acta</i> , 2020, 354, 136658.	2.6	26
25	Surface oxygen vacancies promoted photodegradation of benzene on TiO ₂ film. <i>Applied Surface Science</i> , 2020, 511, 145597.	3.1	60
26	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. <i>Chemical Society Reviews</i> , 2019, 48, 4639-4654.	18.7	108
27	Hydrogen-Assisted Growth of Ultrathin Te Flakes with Giant Gate-Dependent Photoresponse. <i>Advanced Functional Materials</i> , 2019, 29, 1906585.	7.8	62
28	Thermosetting polyurethanes prepared with the aid of a fully bio-based emulsifier with high bio-content, high solid content, and superior mechanical properties. <i>Green Chemistry</i> , 2019, 21, 526-537.	4.6	88
29	Three-dimensional porous Ni, N-codoped C networks for highly sensitive and selective non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126945.	4.0	31
30	Influence of oxygen adsorption on the chemical stability and conductivity of transition metal ceramic coatings: First-principle calculations. <i>Applied Surface Science</i> , 2019, 495, 143530.	3.1	17
31	Waste-wood-derived biochar cathode and its application in electro-Fenton for sulfathiazole treatment at alkaline pH with pyrophosphate electrolyte. <i>Journal of Hazardous Materials</i> , 2019, 377, 249-258.	6.5	90
32	A biochar modified nickel-foam cathode with iron-foam catalyst in electro-Fenton for sulfamerazine degradation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117796.	10.8	142
33	Pd-Fe dual-metal nanoparticles confined in the interface of carbon nanotubes/N-doped carbon for excellent catalytic performance. <i>Applied Surface Science</i> , 2019, 489, 477-484.	3.1	70
34	Localized π -conjugated structure and EPR investigation of g-C ₃ N ₄ photocatalyst. <i>Applied Surface Science</i> , 2019, 487, 335-342.	3.1	119
35	Ni-based photocatalytic H ₂ -production cocatalysts ² . <i>Chinese Journal of Catalysis</i> , 2019, 40, 240-288.	6.9	239
36	Micro/nano-structured ultrathin g-C ₃ N ₄ /Ag nanoparticle hybrids as efficient electrochemical biosensors for l-tyrosine. <i>Applied Surface Science</i> , 2019, 467-468, 608-618.	3.1	47

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37	An ultra-sensitive electrochemical sensor based on 2D g-C ₃ N ₄ /CuO nanocomposites for dopamine detection. Carbon, 2018, 130, 652-663.	5.4	250
38	Atmospheric Pressure Fabrication of Large-Sized Single-Layer Rectangular SnSe Flakes. Journal of Visualized Experiments, 2018, , .	0.2	1
39	Systematic Bandgap Engineering of Graphene Quantum Dots and Applications for Photocatalytic Water Splitting and CO ₂ Reduction. ACS Nano, 2018, 12, 3523-3532.	7.3	341
40	A facile one-pot preparation of Co ₃ O ₄ /g-C ₃ N ₄ heterojunctions with excellent electrocatalytic activity for the detection of environmental phenolic hormones. Applied Surface Science, 2018, 430, 362-370.	3.1	56
41	Facile fabrication of g-C ₃ N ₄ /ZnS/CuS heterojunctions with enhanced photocatalytic performances and photoconduction. Materials Letters, 2018, 212, 288-291.	1.3	44
42	A Comparative Study of the Photoconduction, Photocatalytic and Electrocatalytic Performance of g-C ₃ N ₄ /ZnS/CuS Heterojunctions with Different Morphologies. Catalysis Letters, 2018, 148, 3342-3348.	1.4	10
43	Two-step fabrication of single-layer rectangular SnSe flakes. 2D Materials, 2017, 4, 021026.	2.0	57
44	Reducing the Schottky barrier between few-layer MoTe ₂ and gold. 2D Materials, 2017, 4, 045016.	2.0	35
45	NiO and Co ₃ O ₄ co-doped g-C ₃ N ₄ nanocomposites with excellent photoelectrochemical properties under visible light for detection of tetrabromobisphenol-A. RSC Advances, 2017, 7, 36015-36020.	1.7	18
46	Fabry-Perot Cavity-Enhanced Optical Absorption in Ultrasensitive Tunable Photodiodes Based on Hybrid 2D Materials. Nano Letters, 2017, 17, 7593-7598.	4.5	48
47	Two-Dimensional Materials Based Optoelectronics. Advances in Condensed Matter Physics, 2017, 2017, 1-2.	0.4	1
48	Improving the surface-enhanced Raman scattering activity of carbon nitride by two-step calcining. RSC Advances, 2016, 6, 47368-47372.	1.7	15
49	Use of Single-Layer g-C ₃ N ₄ /Ag Hybrids for Surface-Enhanced Raman Scattering (SERS). Scientific Reports, 2016, 6, 34599.	1.6	52
50	Novel Applications of Micro/Nanostructured Volcanic Ash for Water Purification and Surface-Enhanced Raman Spectroscopy. Analytical Letters, 2016, 49, 2793-2806.	1.0	3
51	Nickel Oxide and Nickel Co-doped Graphitic Carbon Nitride Nanocomposites and its Octylphenol Sensing Application. Electroanalysis, 2016, 28, 227-234.	1.5	21
52	Micro/nano-structured graphitic carbon nitride-Ag nanoparticle hybrids as surface-enhanced Raman scattering substrates with much improved long-term stability. Carbon, 2015, 87, 193-205.	5.4	86
53	Dependence of electronic structure of g-C ₃ N ₄ on the layer number of its nanosheets: A study by Raman spectroscopy coupled with first-principles calculations. Carbon, 2014, 80, 213-221.	5.4	331
54	Degradation of Methylene Blue with H ₂ O ₂ Activated by Peroxidase-Like Fe ₃ O ₄ Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 4793-4799.	0.9	45