Jizhou Jiang

List of Publications by Year
in descending order

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54	3,812	109137	149479
papers	citations	35 h-index	56 g-index

57	57	57	4080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Systematic Bandgap Engineering of Graphene Quantum Dots and Applications for Photocatalytic Water Splitting and CO₂ Reduction. ACS Nano, 2018, 12, 3523-3532.	7.3	341
2	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
3	An ultra-sensitive electrochemical sensor based on 2D g-C3N4/CuO nanocomposites for dopamine detection. Carbon, 2018, 130, 652-663.	5.4	250
4	Ni-based photocatalytic H2-production cocatalysts2. Chinese Journal of Catalysis, 2019, 40, 240-288.	6.9	239
5	Sulfur-doped g-C3N4/g-C3N4 isotype step-scheme heterojunction for photocatalytic H2 evolution. Journal of Materials Science and Technology, 2022, 118, 15-24.	5.6	159
6	A biochar modified nickel-foam cathode with iron-foam catalyst in electro-Fenton for sulfamerazine degradation. Applied Catalysis B: Environmental, 2019, 256, 117796.	10.8	142
7	Recent advances of MXenes as electrocatalysts for hydrogen evolution reaction. Npj 2D Materials and Applications, 2021, 5, .	3.9	133
8	MXenes: An Emerging Platform for Wearable Electronics and Looking Beyond. Matter, 2021, 4, 377-407.	5.0	125
9	Localized Ï€-conjugated structure and EPR investigation of g-C3N4 photocatalyst. Applied Surface Science, 2019, 487, 335-342.	3.1	119
10	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. Chemical Society Reviews, 2019, 48, 4639-4654.	18.7	108
11	Additive-mediated intercalation and surface modification of MXenes. Chemical Society Reviews, 2022, 51, 2972-2990.	18.7	101
12	Uncovering the electrochemical mechanisms for hydrogen evolution reaction of heteroatom doped M2C MXene (Mâ€¯=â€¯Ti, Mo). Applied Surface Science, 2020, 500, 143987.	3.1	93
13	Waste-wood-derived biochar cathode and its application in electro-Fenton for sulfathiazole treatment at alkaline pH with pyrophosphate electrolyte. Journal of Hazardous Materials, 2019, 377, 249-258.	6.5	90
14	Thermosetting polyurethanes prepared with the aid of a fully bio-based emulsifier with high bio-content, high solid content, and superior mechanical properties. Green Chemistry, 2019, 21, 526-537.	4.6	88
15	Improving stability of MXenes. Nano Research, 2022, 15, 6551-6567.	5.8	87
16	Micro/nano-structured graphitic carbon nitrideâ€“Ag nanoparticle hybrids as surface-enhanced Raman scattering substrates with much improved long-term stability. Carbon, 2015, 87, 193-205.	5.4	86
17	Pd-Fe dual-metal nanoparticles confined in the interface of carbon nanotubes/N-doped carbon for excellent catalytic performance. Applied Surface Science, 2019, 489, 477-484.	3.1	70
18	Single-Metal Atoms Supported on MBenes for Robust Electrochemical Hydrogen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 9261-9267.	4.0	70

#	Article	IF	Citations
19	Strong Interlayer Transition in Fewâ€Layer InSe/PdSe₂ van der Waals Heterostructure for Nearâ€Infrared Photodetection. Advanced Functional Materials, 2021, 31, 2104143.	7.8	69
20	Computational screening study of double transition metal carbonitrides Mâ€²2Mâ€³CNO2-MXene as catalysts for hydrogen evolution reaction. Npj Computational Materials, 2021, 7, .	3.5	63
21	Hydrogenâ€Assisted Growth of Ultrathin Te Flakes with Giant Gateâ€Dependent Photoresponse. Advanced Functional Materials, 2019, 29, 1906585.	7.8	62
22	Strategic design and fabrication of MXenes-Ti3CNCl2@CoS2 core-shell nanostructure for high-efficiency hydrogen evolution. Nano Research, 2022, 15, 5977-5986.	5.8	61
23	Surface oxygen vacancies promoted photodegradation of benzene on TiO2 film. Applied Surface Science, 2020, 511, 145597.	3.1	60
24	Two-step fabrication of single-layer rectangular SnSe flakes. 2D Materials, 2017, 4, 021026.	2.0	57
25	A facile one-pot preparation of Co3O4/g-C3N4 heterojunctions with excellent electrocatalytic activity for the detection of environmental phenolic hormones. Applied Surface Science, 2018, 430, 362-370.	3.1	56
26	Use of Single-Layer g-C3N4/Ag Hybrids for Surface-Enhanced Raman Scattering (SERS). Scientific Reports, 2016, 6, 34599.	1.6	52
27	Solvothermal preparation of CeO2 nanoparticlesâ€“graphene nanocomposites as an electrochemical sensor for sensitive detecting pentachlorophenol. Carbon Letters, 2022, 32, 1277-1285.	3.3	50
28	Fabryâ€“Perot Cavity-Enhanced Optical Absorption in Ultrasensitive Tunable Photodiodes Based on Hybrid 2D Materials. Nano Letters, 2017, 17, 7593-7598.	4.5	48
29	Micro/nano-structured ultrathin g-C3N4/Ag nanoparticle hybrids as efficient electrochemical biosensors for l-tyrosine. Applied Surface Science, 2019, 467-468, 608-618.	3.1	47
30	Degradation of Methylene Blue with H₂O₂ Activated by Peroxidase-Like Fe₃O₄ Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 4793-4799.	0.9	45
31	Facile fabrication of g-C3N4/ZnS/CuS heterojunctions with enhanced photocatalytic performances and photoconduction. Materials Letters, 2018, 212, 288-291.	1.3	44
32	Intercalation engineering of MXenes towards highly efficient photo(electrocatalytic) hydrogen evolution reactions. Journal of Materials Chemistry A, 2021, 9, 24195-24214.	5.2	41
33	A cysteine derivative-enabled ultrafast thiolâ€“ene reaction for scalable synthesis of a fully bio-based internal emulsifier for high-toughness waterborne polyurethanes. Green Chemistry, 2020, 22, 5722-5729.	4.6	38
34	Reliable and selective lead-ion sensor of sulfur-doped graphitic carbon nitride nanoflakes. Applied Surface Science, 2020, 506, 144672.	3.1	37
35	Highly Sensitive and Selective Gas Sensor Using Heteroatom Doping Graphdiyne: A DFT Study. Advanced Electronic Materials, 2021, 7, 2001244.	2.6	37
36	Reducing the Schottky barrier between few-layer MoTe ₂ and gold. 2D Materials, 2017, 4, 045016.	2.0	35

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37	Density Functional Theory Study of Single Metal Atoms Embedded into MBene for Electrocatalytic Conversion of N₂ to NH₃. ACS Applied Nano Materials, 2020, 3, 9870-9879.	2.4	35
38	Three-dimensional porous Ni, N-codoped C networks for highly sensitive and selective non-enzymatic glucose sensing. Sensors and Actuators B: Chemical, 2019, 299, 126945.	4.0	31
39	Built-in electric field-assisted step-scheme heterojunction of carbon nitride-copper oxide for highly selective electrochemical detection of p-nonylphenol. Electrochimica Acta, 2020, 354, 136658.	2.6	26
40	Controllable interface engineering of g-C3N4/CuS nanocomposite photocatalysts. Journal of Alloys and Compounds, 2022, 911, 165020.	2.8	25
41	Nickel Oxide and Nickel Coâ€doped Graphitic Carbon Nitride Nanocomposites and its Octylphenol Sensing Application. Electroanalysis, 2016, 28, 227-234.	1.5	21
42	NiO and Co₃O₄ co-doped g-C₃N₄ nanocomposites with excellent photoelectrochemical properties under visible light for detection of tetrabromobisphenol-A. RSC Advances, 2017, 7, 36015-36020.	1.7	18
43	Influence of oxygen adsorption on the chemical stability and conductivity of transition metal ceramic coatings: First-principle calculations. Applied Surface Science, 2019, 495, 143530.	3.1	17
44	Atomic-Scale Superlubricity in Ti₂CO₂@MoS₂ Layered Heterojunctions Interface: A First Principles Calculation Study. ACS Omega, 2021, 6, 9013-9019.	1.6	16
45	Improving the surface-enhanced Raman scattering activity of carbon nitride by two-step calcining. RSC Advances, 2016, 6, 47368-47372.	1.7	15
46	Spaceâ€Confined Growth of 2D InI Showing High Sensitivity in Photodetection. Advanced Electronic Materials, 2020, 6, 2000284.	2.6	14
47	A dynamic anode boosting sulfamerazine mineralization via electrochemical oxidation. Journal of Materials Chemistry A, 2021, 10, 192-208.	5.2	12
48	A Comparative Study of the Photoconduction, Photocatalytic and Electrocatalytic Performance of g-C3N4/ZnS/CuS Heterojunctions with Different Morphologies. Catalysis Letters, 2018, 148, 3342-3348.	1.4	10
49	Oxygen vacancy mediated step-scheme heterojunction of WO2.9/g-C3N4 for efficient electrochemical sensing of 4-nitrophenol. Chemical Engineering Journal Advances, 2021, 8, 100175.	2.4	9
50	Shedding light on the energy applications of emerging 2D hybrid organic-inorganic halide perovskites. IScience, 2022, 25, 103753.	1.9	9
51	Irregularly Shaped Bimetallic Chalcogenide Ag₈SnS₆ Nanoparticles as Electrocatalysts for Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 6745-6751.	2.4	7
52	Novel Applications of Micro/Nanostructured Volcanic Ash for Water Purification and Surface-Enhanced Raman Spectroscopy. Analytical Letters, 2016, 49, 2793-2806.	1.0	3
53	Two-Dimensional Materials Based Optoelectronics. Advances in Condensed Matter Physics, 2017, 2017, 1-2.	0.4	1
54	Atmospheric Pressure Fabrication of Large-Sized Single-Layer Rectangular SnSe Flakes. Journal of Visualized Experiments, 2018, , .	0.2	1