

# Xin Zhou

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

2,877  
citations

26  
h-index

53  
g-index

60  
ext. papers

3,672  
ext. citations

10.1  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
60	Two-dimensional material-based functional aerogels for treating hazards in the environment: synthesis, functional tailoring, applications, and sustainability analysis.. <i>Nanoscale Horizons</i> , <b>2022</b> ,	10.8	6
59	A coumarin-based reversible two-photon fluorescence probe for imaging glutathione near -methyl-D-aspartate (NMDA) receptors.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	3
58	A reversible turn-on fluorescent probe for quantitative imaging and dynamic monitoring of cellular glutathione. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1214, 339957	6.6	
57	Rapid detection of HS gas driven by the catalysis of flower-like BiMoO and its visual performance: A combined experimental and theoretical study. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 424, 127734	12.8	2
56	Single-Atom Fe Triggers Superb CO <sub>2</sub> Photoreduction on a Bismuth-Rich Catalyst <b>2021</b> , 3, 364-371		12
55	Rational Design of Meso-Phosphino-Substituted BODIPY Probes for Imaging Hypochlorite in Living Cells and Mice. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9640-9646	7.8	6
54	Crystalline carbon modified hierarchical porous iron and nitrogen co-doped carbon for efficient electrocatalytic oxygen reduction. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 864-873	9.3	4
53	Facile synthesis of pyronin-9-thione via a trisulfur radical anion mechanism. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 19-22	3.6	1
52	Promoting electrocatalytic water oxidation through tungsten-modulated oxygen vacancies on hierarchical FeNi-layered double hydroxide. <i>Nano Energy</i> , <b>2021</b> , 80, 105540	17.1	25
51	Effect of anisotropic conductivity of AgS-modified Zn InS (= 1, 5) on the photocatalytic properties in solar hydrogen evolution.. <i>RSC Advances</i> , <b>2021</b> , 11, 26908-26914	3.7	0
50	Engineering SnO nanorods/ethylenediamine-modified graphene heterojunctions with selective adsorption and electronic structure modulation for ultrasensitive room-temperature NO detection. <i>Nanotechnology</i> , <b>2021</b> , 32, 155505	3.4	10
49	Insight into the influence of donor-acceptor system on graphitic carbon nitride nanosheets for transport of photoinduced charge carriers and photocatalytic H <sub>2</sub> generation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 326-337	9.3	6
48	Tunable built-in electric fields enable high-performance one-dimensional co-axial MoOx/MoON heterojunction nanotube arrays for thin-film pseudocapacitive charge storage devices. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13263-13270	13	2
47	A molecular design towards sulfonyl aza-BODIPY based NIR fluorescent and colorimetric probe for selective cysteine detection.. <i>RSC Advances</i> , <b>2021</b> , 11, 10154-10158	3.7	5
46	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004401	24	54
45	Active and Stable PtNi Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4205-4214	13.1	47
44	Plasma-induced surface reorganization of porous CoO-CoO heterostructured nanosheets for electrocatalytic water oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 565, 400-404	9.3	5

43	A mitochondria-targeted fluorescent probe for fast detecting hypochlorite in living cells. <i>Dyes and Pigments</i> , <b>2020</b> , 176, 108192	4.6	16
42	Tailoring the d-Band Centers Endows (Ni <sub>1-x</sub> Fe <sub>x</sub> ) <sub>2</sub> P Nanosheets with Efficient Oxygen Evolution Catalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9086-9097	13.1	140
41	Highly sensitive gas sensing material for polar gas molecule based on Janus group-III chalcogenide monolayers: A first-principles investigation. <i>Science China Technological Sciences</i> , <b>2020</b> , 63, 1566-1576	3.5	2
40	Phenyl-Bridged Graphitic Carbon Nitride with a Porous and Hollow Sphere Structure to Enhance Dissociation of Photogenerated Charge Carriers and Visible-Light-Driven H <sub>2</sub> Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41527-41537	9.5	33
39	Copper-Catalyzed Radical N-Demethylation of Amides Using <i>p</i> -Fluorobenzenesulfonimide as an Oxidant. <i>Organic Letters</i> , <b>2020</b> , 22, 4583-4587	6.2	12
38	Two-Dimensional Covalent Organic Framework-Graphene Photodetectors: Insight into the Relationship between the Microscopic Interfacial Structure and Performance. <i>ACS Omega</i> , <b>2019</b> , 4, 18780-18786	2.9	10
37	Surface Confined Synthesis of Hydroxy Functionalized Two-Dimensional Polymer: The Effect of the Position of Hydroxy Groups. <i>ChemPhysChem</i> , <b>2019</b> , 20, 2322-2326	3.2	2
36	Oxygen Vacancy Engineering of Bi <sub>2</sub> O <sub>3</sub> for Boosted Photocatalytic CO Conversion. <i>ChemSusChem</i> , <b>2019</b> , 12, 2740-2747	8.3	48
35	Fast Healable Superhydrophobic Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29388-29395	5.5	28
34	Mimicking Backdonation in Ce-MOFs for Solar-Driven Ammonia Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29917-29923	9.5	41
33	Oxygen-Vacancy-Enriched Porous MoO <sub>3</sub> Nanosheets for Trimethylamine Sensing. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 8016-8026	5.6	46
32	Sodium Hyaluronate: A Versatile Polysaccharide toward Intrinsically Self-Healable Energy-Storage Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3136-3141	9.5	10
31	Dual Tuning of Composition and Nanostructure of Hierarchical Hollow Nanopolyhedra Assembled by NiCo-Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 312-319	6.1	21
30	Recent progress on the development of glutathione (GSH) selective fluorescent and colorimetric probes. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 366, 29-68	23.2	142
29	Electronic and Spectroscopic Properties of La <sub>2</sub> @C <sub>112</sub> Isomers. <i>Chemical Research in Chinese Universities</i> , <b>2018</b> , 34, 241-246	2.2	
28	Colorimetric and Fluorescent Detecting Phosgene by a Second-Generation Chemosensor. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3382-3386	7.8	48
27	A superhydrophobic aerogel with robust self-healability. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4424-4431	4.3	51
26	Modulating the molecular third-order optical nonlinearity by curved surface of carbon skeleton. <i>Molecular Physics</i> , <b>2018</b> , 116, 242-250	1.7	

25	Significantly Improving Lithium-Ion Transport via Conjugated Anion Intercalation in Inorganic Layered Hosts. <i>ACS Nano</i> , <b>2018</b> , 12, 8670-8677	16.7	36
24	Local Built-In Electric Field Enabled in Carbon-Doped Co <sub>3</sub> O <sub>4</sub> Nanocrystals for Superior Lithium-Ion Storage. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705951	15.6	94
23	The effects of amino substituents on the enhanced ammonia sensing performance of PcCo/rGO hybrids.. <i>RSC Advances</i> , <b>2018</b> , 8, 41280-41287	3.7	10
22	Realizing the regulated carrier separation and exciton generation of Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> via a carbon doping strategy. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24350-24357	13	25
21	Colorimetric human papillomavirus DNA assay based on the retardation of avidin-induced aggregation of gold nanoparticles. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 537	5.8	5
20	Heterogeneous Molten Salt Design Strategy toward Coupling Cobalt/Cobalt Oxide and Carbon for Efficient Energy Conversion and Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800762	21.8	41
19	Mitochondria Targeted and Intracellular Biothiol Triggered Hyperpolarized Xe Magnetofluorescent Biosensor. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2288-2295	7.8	29
18	A Reversible Fluorescent Probe for Real-Time Quantitative Monitoring of Cellular Glutathione. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5812-5816	16.4	190
17	A Reversible Fluorescent Probe for Real-Time Quantitative Monitoring of Cellular Glutathione. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5906-5910	3.6	25
16	The effects of central metals on ammonia sensing of metallophthalocyanines covalently bonded to graphene oxide hybrids. <i>RSC Advances</i> , <b>2017</b> , 7, 34215-34225	3.7	20
15	Oxygen-Induced Bi-Self-Doped BiVO <sub>4</sub> with a p-n Homojunction Toward Promoting the Photocatalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23748-23755	9.5	65
14	Effective Strategy for Colorimetric and Fluorescence Sensing of Phosgene Based on Small Organic Dyes and Nanofiber Platforms. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22246-52	9.5	87
13	A reversible fluorescent chemosensor for selective and sequential detection of copper ion and sulfide. <i>Dyes and Pigments</i> , <b>2016</b> , 125, 292-298	4.6	23
12	A viscosity sensitive fluorescent dye for real-time monitoring of mitochondria transport in neurons. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 885-891	11.8	84
11	A Fluorescent Sensor for Dual-Channel Discrimination between Phosgene and a Nerve-Gas Mimic. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4729-33	16.4	139
10	Determination of nitrite in real food and water samples by a novel terbium-macrocyclic complex. <i>RSC Advances</i> , <b>2015</b> , 5, 60608-60611	3.7	2
9	A dual FRET based fluorescent probe as a multiple logic system. <i>Chemical Communications</i> , <b>2015</b> , 51, 111-3	5.8	46
8	A ratiometric fluorescent probe based on a coumarin-hemicyanine scaffold for sensitive and selective detection of endogenous peroxynitrite. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 64, 285-91	11.8	131

7	Recent Progress on the Development of Chemosensors for Gases. <i>Chemical Reviews</i> , <b>2015</b> , 115, 7944-8068.1	548
6	Hierarchical Fe <sub>2</sub> O <sub>3</sub> /NiO composites with a hollow structure for a gas sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12031-7	9.5 220
5	A reversible fluorescent probe for circulatory detection of sulfites through a redox-based tandem reaction. <i>RSC Advances</i> , <b>2014</b> , 4, 54554-54557	3.7 22
4	A sensitive and selective fluorescent probe for cysteine based on a new response-assisted electrostatic attraction strategy: the role of spatial charge configuration. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7817-24	4.8 95
3	A cysteine probe with high selectivity and sensitivity promoted by response-assisted electrostatic attraction. <i>Chemical Communications</i> , <b>2012</b> , 48, 8793-5	5.8 88
2	Regulating Electron Redistribution of Intermetallic Iridium Oxide by Incorporating Ru for Efficient Acidic Water Oxidation. <i>Advanced Energy Materials</i> , 2102883	21.8 9
1	Constructing Interfacial Nanolayer Stabilizes 4.3 V High-Voltage All-Solid-State Lithium Batteries with PEO-Based Solid-State Electrolyte. <i>Advanced Functional Materials</i> , 2113068	15.6 5