

# Zhan Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,871  
citations

279798

23  
h-index

265206

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallic 1T Phase Enabling MoS <sub>2</sub> Nanodots as an Efficient Agent for Photoacoustic Imaging Guided Photothermal Therapy in the Near-Infrared Window. <i>Small</i> , 2020, 16, e2004173.	10.0	150
2	Layered double hydroxide-based nanomaterials for biomedical applications. <i>Chemical Society Reviews</i> , 2022, 51, 6126-6176.	38.1	133
3	Engineering design toward exploring the functional group substitution in 1D channels of Zn-organic frameworks upon nitro explosives and antibiotics detection. <i>Dalton Transactions</i> , 2018, 47, 5359-5365.	3.3	126
4	A Safe Flexible Self-Powered Wristband System by Integrating Defective MnO <sub>2</sub> Nanosheet-Based Zinc-Ion Batteries with Perovskite Solar Cells. <i>ACS Nano</i> , 2021, 15, 10597-10608.	14.6	109
5	Intercalation-Activated Layered MoO <sub>3</sub> Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	109
6	Ultrafast Size Expansion and Turn-On Luminescence of Atomically Precise Silver Clusters by Hydrogen Sulfide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8505-8509.	13.8	96
7	Activating Layered Metal Oxide Nanomaterials via Structural Engineering as Biodegradable Nanoagents for Photothermal Cancer Therapy. <i>Small</i> , 2021, 17, e2007486.	10.0	94
8	A Nb <sub>2</sub> CTx/sodium alginate-based composite film with neuron-like network for self-powered humidity sensing. <i>Chemical Engineering Journal</i> , 2022, 438, 135588.	12.7	86
9	Synergistic regulation of effective detection for hypochlorite based on a dual-mode probe by employing aggregation induced emission (AIE) and intramolecular charge transfer (ICT) effects. <i>Chemical Engineering Journal</i> , 2019, 368, 157-164.	12.7	74
10	Double protected lanthanide fluorescence core@shell colloidal hybrid for the selective and sensitive detection of ClO <sup>-</sup> . <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 437-442.	7.8	71
11	Imaging two targets in live cells based on rational design of lanthanide organic structure appended carbon dots. <i>Carbon</i> , 2015, 93, 671-680.	10.3	65
12	Oxidative deoxygenation reaction induced recognition of hypochlorite based on a new fluorescent lanthanide-organic framework. <i>Chemical Engineering Journal</i> , 2018, 351, 364-370.	12.7	63
13	New lanthanide ternary complex system in electrospun nanofibers: Assembly, physico-chemical property and sensor application. <i>Chemical Engineering Journal</i> , 2019, 358, 67-73.	12.7	59
14	Ratiometric Fluorescence Platform Based on Modified Silicon Quantum Dots and Its Logic Gate Performance. <i>Inorganic Chemistry</i> , 2018, 57, 8866-8873.	4.0	58
15	2D MnO <sub>2</sub> nanosheets generated signal transduction with OD carbon quantum dots: synthesis strategy, dual-mode behavior and glucose detection. <i>Nanoscale</i> , 2019, 11, 13058-13068.	5.6	45
16	Europium functionalized silicon quantum dots nanomaterials for ratiometric fluorescence detection of Bacillus anthrax biomarker. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 88-93.	3.9	44
17	Extension of Novel Lanthanide Luminescent Mesoporous Nanostructures to Detect Fluoride. <i>Inorganic Chemistry</i> , 2014, 53, 1530-1536.	4.0	38
18	Spectroscopic analysis and in vitro imaging applications of a pH responsive AIE sensor with a two-input inhibit function. <i>Chemical Communications</i> , 2015, 51, 12060-12063.	4.1	34

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19	Luminescence modulation of two individual fluorophores over a wide pH range and intracellular studies. <i>Dyes and Pigments</i> , 2018, 150, 151-157.	3.7	29
20	Mitochondria-Targeted Chemosensor to Discriminately and Continuously Visualize HClO and H <sub>2</sub> O <sub>2</sub> with Multiresponse Fluorescence Signals for <i>In Vitro</i> and <i>In Vivo</i> Bioimaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 7886-7897.	4.6	27
21	Hypochlorite responsive ratiometric fluorescent switch and logic gates based on lanthanide functionalized polymer nanosphere. <i>Dyes and Pigments</i> , 2020, 174, 108033.	3.7	26
22	Chemical sensing failed by aggregation-caused quenching? A case study enables liquid/solid two-phase determination of N <sub>2</sub> H <sub>4</sub> . <i>Chemical Engineering Journal</i> , 2021, 415, 128975.	12.7	26
23	Aggregation Induced Emission Mediated Controlled Release by Using a Built-In Functionalized Nanocluster with Theranostic Features. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 410-418.	6.4	24
24	Precise control for the aggregation and deaggregation with the aid of a tetraphenylethylene derivative: Luminescence modulation and sensing performance. <i>Dyes and Pigments</i> , 2020, 172, 107844.	3.7	24
25	An efficient optical-electrochemical dual probe for highly sensitive recognition of dopamine based on terbium complex functionalized reduced graphene oxide. <i>Nanoscale</i> , 2014, 6, 4583-4587.	5.6	22
26	Optical detection of anthrax biomarkers in an aqueous medium: the combination of carbon quantum dots and europium ions within alginate hydrogels. <i>Journal of Materials Science</i> , 2019, 54, 2526-2534.	3.7	21
27	Molecular imaging of biothiols and in vitro diagnostics based on an organic chromophore bearing a terbium hybrid probe. <i>Dalton Transactions</i> , 2016, 45, 7435-7442.	3.3	20
28	Nucleophilic Addition-Triggered Lanthanide Luminescence Allows Detection of Amines by Eu(thenoyltrifluoroacetone) <sub>3</sub> . <i>Photochemistry and Photobiology</i> , 2012, 88, 840-843.	2.5	19
29	Crafting CdTe/CdS QDs surface for the selective recognition of formaldehyde gas via ratiometric contrivance. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127379.	7.8	19
30	A novel D-ï€A molecule as ICT type fluorescent probe for endogenous hypochlorite imaging in living cells and zebrafishes. <i>Journal of Molecular Liquids</i> , 2021, 329, 115465.	4.9	17
31	Intercalation-Activated Layered MoO <sub>3</sub> Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	16
32	Establishment of a new molecular model for mercury determination verified by single crystal X-ray diffraction, spectroscopic analysis and biological potentials. <i>Chinese Chemical Letters</i> , 2021, 32, 87-91.	9.0	15
33	Polyurethane-based Eu(III) luminescent foam as a sensor for recognizing Cu <sup>2+</sup> in water. <i>Analytical Methods</i> , 2013, 5, 6045.	2.7	14
34	FRET-based sensor for visualizing pH variation with colorimetric/ratiometric strategy and application for bioimaging in living cells, bacteria and zebrafish. <i>Analyst</i> , 2020, 145, 4283-4294.	3.5	13
35	Carbazole based new organic dye recognizes hydrazine and hydrogen sulfide via signal difference protocols. <i>Dyes and Pigments</i> , 2020, 181, 108545.	3.7	13
36	Ultrafast Size Expansion and Turn-On Luminescence of Atomically Precise Silver Clusters by Hydrogen Sulfide. <i>Angewandte Chemie</i> , 2021, 133, 8586-8590.	2.0	13

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37	Design and evaluation of highly sensitive luminescent terbium sensor for hypochlorite in water. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 159-163.	2.4	12
38	Luminescent terbium(iii) complex-based titania sensing material for fluoride and its photocatalytic properties. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 738.	2.9	10
39	Smart OD nanomaterials assembled by green luminescent terbium hybrids for the detection of tryptophan. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	10
40	Soft Matter Anion Sensing Based on Lanthanide (Eu <sup>3+</sup> and Tb <sup>3+</sup> ) Luminescent Hydrogels. <i>Soft Materials</i> , 2014, 12, 98-102.	1.7	10
41	Novel pH Induced Reversible Luminescent Lanthanide Hydrogels. <i>Journal of Cluster Science</i> , 2013, 24, 449-458.	3.3	7
42	Two novel sol-gel-derived nanostructures and their hemoglobin sensing features. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 77, 205-210.	2.4	5
43	A new dual-functional chemsensor for the trace detection of mercury ion and imaging of hypochloric acid. <i>Dyes and Pigments</i> , 2021, 195, 109697.	3.7	5