

# Lei Jiao

## List of Publications by Year in descending order

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74  
papers

5,051  
citations

76326

40  
h-index

95266

68  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3373  
citing authors

#	ARTICLE	IF	CITATIONS
1	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2565-2576.	13.8	422
2	Fe-N-C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 2019, 91, 11994-11999.	6.5	256
3	Glucose Oxidase-Integrated Metal-Organic Framework Hybrids as Biomimetic Cascade Nanozymes for Ultrasensitive Glucose Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22096-22101.	8.0	249
4	Densely Isolated FeN <sub>4</sub> Sites for Peroxidase Mimicking. <i>ACS Catalysis</i> , 2020, 10, 6422-6429.	11.2	216
5	Oxidase-Like Fe-N-C Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. <i>Small</i> , 2019, 15, e1903108.	10.0	207
6	Boron-doped Fe-N-C single-atom nanozymes specifically boost peroxidase-like activity. <i>Nano Today</i> , 2020, 35, 100971.	11.9	199
7	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. <i>Analytical Chemistry</i> , 2020, 92, 3373-3379.	6.5	185
8	Single-Atom Iron Boosts Electrochemiluminescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3534-3538.	13.8	167
9	lncRNA <i>ZFAS1</i> as a SERCA2a Inhibitor to Cause Intracellular Ca <sup>2+</sup> Overload and Contractile Dysfunction in a Mouse Model of Myocardial Infarction. <i>Circulation Research</i> , 2018, 122, 1354-1368.	4.5	147
10	Single-atom catalysts boost signal amplification for biosensing. <i>Chemical Society Reviews</i> , 2021, 50, 750-765.	38.1	142
11	Nanozyme-involved biomimetic cascade catalysis for biomedical applications. <i>Materials Today</i> , 2021, 44, 211-228.	14.2	131
12	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 2585-2596.	2.0	117
13	Hierarchically Porous S/N Codoped Carbon Nanozymes with Enhanced Peroxidase-like Activity for Total Antioxidant Capacity Biosensing. <i>Analytical Chemistry</i> , 2020, 92, 13518-13524.	6.5	112
14	Metal-Organic Frameworks Enhance Biomimetic Cascade Catalysis for Biosensing. <i>Advanced Materials</i> , 2021, 33, e2005172.	21.0	109
15	Polydopamine-Capped Bimetallic AuPt Hydrogels Enable Robust Biosensor for Organophosphorus Pesticide Detection. <i>Small</i> , 2019, 15, e1900632.	10.0	102
16	PdBi Single-Atom Alloy Aerogels for Efficient Ethanol Oxidation. <i>Advanced Functional Materials</i> , 2021, 31, 2103465.	14.9	97
17	Defect engineering in nanozymes. <i>Materials Today</i> , 2022, 52, 327-347.	14.2	91
18	Single-Atom-Based Heterojunction Coupling with Ion-Exchange Reaction for Sensitive Photoelectrochemical Immunoassay. <i>Nano Letters</i> , 2021, 21, 1879-1887.	9.1	86

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19	A dopamine-induced Au hydrogel nanozyme for enhanced biomimetic catalysis. <i>Chemical Communications</i> , 2019, 55, 9865-9868.	4.1	85
20	Au@Pt nanodendrites enhanced multimodal enzyme-linked immunosorbent assay. <i>Nanoscale</i> , 2019, 11, 8798-8802.	5.6	82
21	Smart Drug Delivery System-Inspired Enzyme-Linked Immunosorbent Assay Based on Fluorescence Resonance Energy Transfer and Allochroic Effect Induced Dual-Modal Colorimetric and Fluorescent Detection. <i>Analytical Chemistry</i> , 2018, 90, 1976-1982.	6.5	79
22	Tuning Atomically Dispersed Fe Sites in Metal-Organic Frameworks Boosts Peroxidase-Like Activity for Sensitive Biosensing. <i>Nano-Micro Letters</i> , 2020, 12, 184.	27.0	77
23	A nanozyme-linked immunosorbent assay for dual-modal colorimetric and ratiometric fluorescent detection of cardiac troponin I. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 60-64.	7.8	74
24	Nanozyme-Activated Synergistic Amplification for Ultrasensitive Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , 2021, 93, 6881-6888.	6.5	69
25	Fe <sub>3</sub> C-Assisted Single Atomic Fe Sites for Sensitive Electrochemical Biosensing. <i>Analytical Chemistry</i> , 2021, 93, 5334-5342.	6.5	65
26	Synergistically enhanced single-atomic site Fe by Fe <sub>3</sub> C@C for boosted oxygen reduction in neutral electrolyte. <i>Nano Energy</i> , 2021, 84, 105840.	16.0	65
27	Iron Single-Atom Catalysts Boost Photoelectrochemical Detection by Integrating Interfacial Oxygen Reduction and Enzyme-Mimicking Activity. <i>ACS Nano</i> , 2022, 16, 2997-3007.	14.6	63
28	Unsymmetrically coordinated single Fe-N <sub>3</sub> S <sub>1</sub> sites mimic the function of peroxidase. <i>Nano Today</i> , 2021, 40, 101261.	11.9	61
29	Long non-coding RNA CCRR controls cardiac conduction via regulating intercellular coupling. <i>Nature Communications</i> , 2018, 9, 4176.	12.8	60
30	Bioinspired synthesis of organic-inorganic hybrid nanoflowers for robust enzyme-free electrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , 2019, 133, 94-99.	10.1	58
31	Fe-N-C Single-Atom Catalyst Coupling with Pt Clusters Boosts Peroxidase-like Activity for Cascade-Amplified Colorimetric Immunoassay. <i>Analytical Chemistry</i> , 2021, 93, 12353-12359.	6.5	55
32	Axial Ligand-Engineered Single-Atom Catalysts with Boosted Enzyme-Like Activity for Sensitive Immunoassay. <i>Analytical Chemistry</i> , 2021, 93, 12758-12766.	6.5	55
33	Neutral Zn-Air Battery Assembled with Single-Atom Iridium Catalysts for Sensitive Self-Powered Sensing System. <i>Advanced Functional Materials</i> , 2021, 31, 2101193.	14.9	52
34	Graphene loaded bimetallic Au@Pt nanodendrites enhancing ultrasensitive electrochemical immunoassay of AFP. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 513-519.	7.8	50
35	Self-Assembly of All-Inclusive Allochroic Nanoparticles for the Improved ELISA. <i>Analytical Chemistry</i> , 2019, 91, 8461-8465.	6.5	49
36	Immobilizing Enzymes on Noble Metal Hydrogel Nanozymes with Synergistically Enhanced Peroxidase Activity for Ultrasensitive Immunoassays by Cascade Signal Amplification. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33383-33391.	8.0	49

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37	Hierarchical manganese dioxide nanoflowers enable accurate ratiometric fluorescence enzyme-linked immunosorbent assay. <i>Nanoscale</i> , 2018, 10, 21893-21897.	5.6	48
38	Modulating Oxygen Reduction Behaviors on Nickel Single-Atom Catalysts to Probe the Electrochemiluminescence Mechanism at the Atomic Level. <i>Analytical Chemistry</i> , 2021, 93, 8663-8670.	6.5	48
39	Fast Preparation of Polydopamine Nanoparticles Catalyzed by $\text{Fe}^{2+}/\text{H}_2\text{O}_2$ for Visible Sensitive Smartphone-Enabled Cytosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28339-28345.	8.0	47
40	Atomically dispersed N-coordinated Fe-Fe dual-sites with enhanced enzyme-like activities. <i>Nano Research</i> , 2022, 15, 959-964.	10.4	43
41	Ternary PtRuCu aerogels for enhanced methanol electrooxidation. <i>Nanoscale</i> , 2019, 11, 10575-10580.	5.6	40
42	Enzyme-Free Immunosorbent Assay of Prostate Specific Antigen Amplified by Releasing pH Indicator Molecules Entrapped in Mesoporous Silica Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 8673-8679.	6.5	39
43	pH-responsive allochroic nanoparticles for the multicolor detection of breast cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111780.	10.1	38
44	Single-Atom Iron Enables Strong Low-Triggering-Potential Luminol Cathodic Electrochemiluminescence. <i>Analytical Chemistry</i> , 2022, 94, 9459-9465.	6.5	37
45	Defect-Engineered Nanozyme-Linked Receptors. <i>Small</i> , 2021, 17, e2101907.	10.0	36
46	A pH Indicator-linked Immunosorbent assay following direct amplification strategy for colorimetric detection of protein biomarkers. <i>Biosensors and Bioelectronics</i> , 2017, 90, 1-5.	10.1	33
47	A sense-and-treat-ELISA using zeolitic imidazolate framework-8 as carriers for dual-modal detection of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126760.	7.8	29
48	Single-atom Bi-anchored Au hydrogels with specifically boosted peroxidase-like activity for cascade catalysis and sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130108.	7.8	29
49	Iridium Single-Atomic Site Catalysts with Superior Oxygen Reduction Reaction Activity for Sensitive Monitoring of Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2022, 94, 1390-1396.	6.5	28
50	Amperometric sandwich immunoassay for the carcinoembryonic antigen using a glassy carbon electrode modified with iridium nanoparticles, polydopamine and reduced graphene oxide. <i>Mikrochimica Acta</i> , 2017, 184, 169-175.	5.0	27
51	Dissociable photoelectrode materials boost ultrasensitive photoelectrochemical detection of organophosphorus pesticides. <i>Analytica Chimica Acta</i> , 2020, 1130, 100-106.	5.4	26
52	Histidine-engineered metal-organic frameworks with enhanced peroxidase-like activity for sensitive detection of metallothioneins. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131927.	7.8	22
53	Ultrathin Ruthenium Nanosheets with Crystallinity-Modulated Peroxidase-like Activity for Protein Discrimination. <i>Analytical Chemistry</i> , 2022, 94, 1022-1028.	6.5	21
54	Single-Atom Iron Boosts Electrochemiluminescence. <i>Angewandte Chemie</i> , 2020, 132, 3562-3566.	2.0	20

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55	Robust enzyme-free electrochemical immunoassay of CEA enhanced by porous PdCu nanoparticles. <i>Electrochimica Acta</i> , 2017, 252, 374-380.	5.2	19
56	Amorphous RuTe <sub>2</sub> nanorods as efficient peroxidase mimics for colorimetric immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130007.	7.8	19
57	Fine-Tuning Pyridinic Nitrogen in Nitrogen-Doped Porous Carbon Nanostructures for Boosted Peroxidase-Like Activity and Sensitive Biosensing. <i>Research</i> , 2020, 2020, 8202584.	5.7	19
58	Cobalt oxyhydroxide nanosheets integrating with metal indicator enable sensitive detection of glutathione. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129247.	7.8	18
59	Tuning the Ratio of Pt(0)/Pt(II) in Well-Defined Pt Clusters Enables Enhanced Electrocatalytic Reduction/Oxidation of Hydrogen Peroxide for Sensitive Biosensing. <i>Analytical Chemistry</i> , 2021, 93, 15982-15989.	6.5	18
60	Amorphous metal-organic frameworks on PtCu hydrogels: Enzyme immobilization platform with boosted activity and stability for sensitive biosensing. <i>Journal of Hazardous Materials</i> , 2022, 432, 128707.	12.4	17
61	A new ratiometric electrochemical immunoassay for reliable detection of nuclear matrix protein 22. <i>Analytica Chimica Acta</i> , 2019, 1086, 103-109.	5.4	16
62	Defect-rich and ultrathin nitrogen-doped carbon nanosheets with enhanced peroxidase-like activity for the detection of urease activity and fluoride ion. <i>Chinese Chemical Letters</i> , 2022, 33, 1317-1320.	9.0	16
63	pH Readout enhanced ELISA for point-of-care testing of cardiac troponin I. <i>Chinese Chemical Letters</i> , 2017, 28, 1878-1880.	9.0	15
64	Enhanced amperometric immunoassay for the prostate specific antigen using Pt-Cu hierarchical trigonal bipyramid nanoframes as $\text{AA}$ label. <i>Mikrochimica Acta</i> , 2017, 184, 423-429.	5.0	15
65	Trace Iridium as $\text{e}^{-}$ Adhesive $\text{e}^{-}$ in PtCu Aerogels for Robust Methanol Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13039-13046.	6.7	15
66	Tuning polyelectrolyte-graphene interaction for enhanced electrochemical nonenzymatic hydrogen peroxide sensing. <i>Analytica Chimica Acta</i> , 2019, 1049, 98-104.	5.4	13
67	MicroRNA-132 regulates total protein of Nav1.1 and Nav1.2 in the hippocampus and cortex of rat with chronic cerebral hypoperfusion. <i>Behavioural Brain Research</i> , 2019, 366, 118-125.	2.2	10
68	Flexible Prussian Blue $\text{Au}$ Fibers as Robust Peroxidase $\text{e}^{-}$ Like Nanozymes for Wearable Hydrogen Peroxide and Uric Acid Monitoring. <i>Electroanalysis</i> , 2022, 34, 1763-1771.	2.9	10
69	Synthesis and biological evaluation of JL-A7 derivatives as potent ABCB1 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4194-4202.	3.0	9
70	Ternary Pt@Pd@Ru nanodendrite-decorated graphene oxide for sensitive electrochemical immunoassay of CEA. <i>RSC Advances</i> , 2016, 6, 42994-42999.	3.6	7
71	Ternary Pt-Co-Cu nanodendrites for ultrasensitive voltammetric determination of insulin at very low working potential. <i>Mikrochimica Acta</i> , 2017, 184, 2031-2038.	5.0	7
72	Ag-doped Fe-metal $\text{e}^{-}$ organic framework nanozymes for efficient antibacterial application. <i>New Journal of Chemistry</i> , 2021, 45, 17772-17776.	2.8	5

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73	Bimetallic FeCo@N-C catalyst for efficient oxygen reduction reaction. <i>Electroanalysis</i> , 0, , .	2.9	5
74	Engineering Metal-Organic Framework-based Nanozymes for Enhanced Biosensing. <i>Current Analytical Chemistry</i> , 2022, 18, 739-752.	1.2	4