Lei Jiao

List of Publications by Year
in descending order

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		76326	95266
74	5,051	40	68
papers	citations	h-index	g-index

74	74	74	3373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defect-rich and ultrathin nitrogen-doped carbon nanosheets with enhanced peroxidase-like activity for the detection of urease activity and fluoride ion. Chinese Chemical Letters, 2022, 33, 1317-1320.	9.0	16
2	Atomically dispersed N-coordinated Fe-Fe dual-sites with enhanced enzyme-like activities. Nano Research, 2022, 15, 959-964.	10.4	43
3	Engineering Metal-Organic Framework-based Nanozymes for Enhanced Biosensing. Current Analytical Chemistry, 2022, 18, 739-752.	1.2	4
4	Defect engineering in nanozymes. Materials Today, 2022, 52, 327-347.	14.2	91
5	Iron Single-Atom Catalysts Boost Photoelectrochemical Detection by Integrating Interfacial Oxygen Reduction and Enzyme-Mimicking Activity. ACS Nano, 2022, 16, 2997-3007.	14.6	63
6	Ultrathin Ruthenium Nanosheets with Crystallinity-Modulated Peroxidase-like Activity for Protein Discrimination. Analytical Chemistry, 2022, 94, 1022-1028.	6.5	21
7	Amorphous metal-organic frameworks on PtCu hydrogels: Enzyme immobilization platform with boosted activity and stability for sensitive biosensing. Journal of Hazardous Materials, 2022, 432, 128707.	12.4	17
8	Iridium Single-Atomic Site Catalysts with Superior Oxygen Reduction Reaction Activity for Sensitive Monitoring of Organophosphorus Pesticides. Analytical Chemistry, 2022, 94, 1390-1396.	6.5	28
9	Flexible Prussian Blueâ€Au Fibers as Robust Peroxidase â€“ Like Nanozymes for Wearable Hydrogen Peroxide and Uric Acid Monitoring. Electroanalysis, 2022, 34, 1763-1771.	2.9	10
10	Histidine-engineered metal-organic frameworks with enhanced peroxidase-like activity for sensitive detection of metallothioneins. Sensors and Actuators B: Chemical, 2022, 366, 131927.	7.8	22
11	Single-Atom Iron Enables Strong Low-Triggering-Potential Luminol Cathodic Electrochemiluminescence. Analytical Chemistry, 2022, 94, 9459-9465.	6.5	37
12	Single-atom catalysts boost signal amplification for biosensing. Chemical Society Reviews, 2021, 50, 750-765.	38.1	142
13	Ag-doped Fe-metalâ€“organic framework nanozymes for efficient antibacterial application. New Journal of Chemistry, 2021, 45, 17772-17776.	2.8	5
14	Cobalt oxyhydroxide nanosheets integrating with metal indicator enable sensitive detection of glutathione. Sensors and Actuators B: Chemical, 2021, 329, 129247.	7.8	18
15	Single-Atom-Based Heterojunction Coupling with Ion-Exchange Reaction for Sensitive Photoelectrochemical Immunoassay. Nano Letters, 2021, 21, 1879-1887.	9.1	86
16	Fe₃C-Assisted Single Atomic Fe Sites for Sensitive Electrochemical Biosensing. Analytical Chemistry, 2021, 93, 5334-5342.	6.5	65
17	Nanozyme-Activated Synergistic Amplification for Ultrasensitive Photoelectrochemical Immunoassay. Analytical Chemistry, 2021, 93, 6881-6888.	6.5	69
18	Nanozyme-involved biomimetic cascade catalysis for biomedical applications. Materials Today, 2021, 44, 211-228.	14.2	131

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19	Neutral Znâ€Air Battery Assembled with Singleâ€Atom Iridium Catalysts for Sensitive Selfâ€Powered Sensing System. Advanced Functional Materials, 2021, 31, 2101193.	14.9	52
20	Metalâ€“Organic Frameworks Enhance Biomimetic Cascade Catalysis for Biosensing. Advanced Materials, 2021, 33, e2005172.	21.0	109
21	Synergistically enhanced single-atomic site Fe by Fe3C@C for boosted oxygen reduction in neutral electrolyte. Nano Energy, 2021, 84, 105840.	16.0	65
22	Modulating Oxygen Reduction Behaviors on Nickel Single-Atom Catalysts to Probe the Electrochemiluminescence Mechanism at the Atomic Level. Analytical Chemistry, 2021, 93, 8663-8670.	6.5	48
23	Defectâ€Engineered Nanozymeâ€Linked Receptors. Small, 2021, 17, e2101907.	10.0	36
24	PdBi Singleâ€Atom Alloy Aerogels for Efficient Ethanol Oxidation. Advanced Functional Materials, 2021, 31, 2103465.	14.9	97
25	Immobilizing Enzymes on Noble Metal Hydrogel Nanozymes with Synergistically Enhanced Peroxidase Activity for Ultrasensitive Immunoassays by Cascade Signal Amplification. ACS Applied Materials & Interfaces, 2021, 13, 33383-33391.	8.0	49
26	Amorphous RuTe2 nanorods as efficient peroxidase mimics for colorimetric immunoassay. Sensors and Actuators B: Chemical, 2021, 341, 130007.	7.8	19
27	Single-atom Bi-anchored Au hydrogels with specifically boosted peroxidase-like activity for cascade catalysis and sensing. Sensors and Actuators B: Chemical, 2021, 343, 130108.	7.8	29
28	Feâ€“Nâ€“C Single-Atom Catalyst Coupling with Pt Clusters Boosts Peroxidase-like Activity for Cascade-Amplified Colorimetric Immunoassay. Analytical Chemistry, 2021, 93, 12353-12359.	6.5	55
29	Axial Ligand-Engineered Single-Atom Catalysts with Boosted Enzyme-Like Activity for Sensitive Immunoassay. Analytical Chemistry, 2021, 93, 12758-12766.	6.5	55
30	Trace Iridium as â€³Adhesiveâ€³ in PtCuIr Aerogels for Robust Methanol Electrooxidation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13039-13046.	6.7	15
31	Unsymmetrically coordinated single Fe-N3S1 sites mimic the function of peroxidase. Nano Today, 2021, 40, 101261.	11.9	61
32	Tuning the Ratio of Pt(0)/Pt(II) in Well-Defined Pt Clusters Enables Enhanced Electrocatalytic Reduction/Oxidation of Hydrogen Peroxide for Sensitive Biosensing. Analytical Chemistry, 2021, 93, 15982-15989.	6.5	18
33	When Nanozymes Meet Singleâ€Atom Catalysis. Angewandte Chemie - International Edition, 2020, 59, 2565-2576.	13.8	422
34	When Nanozymes Meet Singleâ€Atom Catalysis. Angewandte Chemie, 2020, 132, 2585-2596.	2.0	117
35	pH-responsive allochroic nanoparticles for the multicolor detection of breast cancer biomarkers. Biosensors and Bioelectronics, 2020, 148, 111780.	10.1	38
36	Singleâ€Atom Iron Boosts Electrochemiluminescence. Angewandte Chemie, 2020, 132, 3562-3566.	2.0	20

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37	Singleâ€Atom Iron Boosts Electrochemiluminescence. Angewandte Chemie - International Edition, 2020, 59, 3534-3538.	13.8	167
38	Dissociable photoelectrode materials boost ultrasensitive photoelectrochemical detection of organophosphorus pesticides. Analytica Chimica Acta, 2020, 1130, 100-106.	5.4	26
39	Hierarchically Porous S/N Codoped Carbon Nanozymes with Enhanced Peroxidase-like Activity for Total Antioxidant Capacity Biosensing. Analytical Chemistry, 2020, 92, 13518-13524.	6.5	112
40	Tuning Atomically Dispersed Fe Sites in Metalâ€“Organic Frameworks Boosts Peroxidase-Like Activity for Sensitive Biosensing. Nano-Micro Letters, 2020, 12, 184.	27.0	77
41	Boron-doped Fe-N-C single-atom nanozymes specifically boost peroxidase-like activity. Nano Today, 2020, 35, 100971.	11.9	199
42	Densely Isolated FeN₄ Sites for Peroxidase Mimicking. ACS Catalysis, 2020, 10, 6422-6429.	11.2	216
43	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. Analytical Chemistry, 2020, 92, 3373-3379.	6.5	185
44	Fine-Tuning Pyridinic Nitrogen in Nitrogen-Doped Porous Carbon Nanostructures for Boosted Peroxidase-Like Activity and Sensitive Biosensing. Research, 2020, 2020, 8202584.	5.7	19
45	Feâ€“Nâ€“C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. Analytical Chemistry, 2019, 91, 11994-11999.	6.5	256
46	A â€œsense-and-treatâ€•ELISA using zeolitic imidazolate framework-8 as carriers for dual-modal detection of carcinoembryonic antigen. Sensors and Actuators B: Chemical, 2019, 297, 126760.	7.8	29
47	A dopamine-induced Au hydrogel nanozyme for enhanced biomimetic catalysis. Chemical Communications, 2019, 55, 9865-9868.	4.1	85
48	Oxidaseâ€Like Feâ€Nâ€C Singleâ€Atom Nanozymes for the Detection of Acetylcholinesterase Activity. Small, 2019, 15, e1903108.	10.0	207
49	A new ratiometric electrochemical immunoassay for reliable detection of nuclear matrix protein 22. Analytica Chimica Acta, 2019, 1086, 103-109.	5.4	16
50	Glucose Oxidase-Integrated Metalâ€“Organic Framework Hybrids as Biomimetic Cascade Nanozymes for Ultrasensitive Glucose Biosensing. ACS Applied Materials & Interfaces, 2019, 11, 22096-22101.	8.0	249
51	Self-Assembly of All-Inclusive Allochroic Nanoparticles for the Improved ELISA. Analytical Chemistry, 2019, 91, 8461-8465.	6.5	49
52	Ternary PtRuCu aerogels for enhanced methanol electrooxidation. Nanoscale, 2019, 11, 10575-10580.	5.6	40
53	MicroRNA-132 regulates total protein of Nav1.1 and Nav1.2 in the hippocampus and cortex of rat with chronic cerebral hypoperfusion. Behavioural Brain Research, 2019, 366, 118-125.	2.2	10
54	A nanozyme-linked immunosorbent assay for dual-modal colorimetric and ratiometric fluorescent detection of cardiac troponin I. Sensors and Actuators B: Chemical, 2019, 288, 60-64.	7.8	74

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55	Bioinspired synthesis of organicâ€“inorganic hybrid nanoflowers for robust enzyme-free electrochemical immunoassay. Biosensors and Bioelectronics, 2019, 133, 94-99.	10.1	58
56	Polydopamineâ€Capped Bimetallic AuPt Hydrogels Enable Robust Biosensor for Organophosphorus Pesticide Detection. Small, 2019, 15, e1900632.	10.0	102
57	Au@Pt nanodendrites enhanced multimodal enzyme-linked immunosorbent assay. Nanoscale, 2019, 11, 8798-8802.	5.6	82
58	Tuning polyelectrolyte-graphene interaction for enhanced electrochemical nonenzymatic hydrogen peroxide sensing. Analytica Chimica Acta, 2019, 1049, 98-104.	5.4	13
59	LncRNA ZFAS1 as a SERCA2a Inhibitor to Cause Intracellular Ca ²⁺ Overload and Contractile Dysfunction in a Mouse Model of Myocardial Infarction. Circulation Research, 2018, 122, 1354-1368.	4.5	147
60	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. Analytical Chemistry, 2018, 90, 1976-1982.	6.5	79
61	Hierarchical manganese dioxide nanoflowers enable accurate ratiometric fluorescence enzyme-linked immunosorbent assay. Nanoscale, 2018, 10, 21893-21897.	5.6	48
62	Long non-coding RNA CCRR controls cardiac conduction via regulating intercellular coupling. Nature Communications, 2018, 9, 4176.	12.8	60
63	Enzyme-Free Immunosorbent Assay of Prostate Specific Antigen Amplified by Releasing pH Indicator Molecules Entrapped in Mesoporous Silica Nanoparticles. Analytical Chemistry, 2018, 90, 8673-8679.	6.5	39
64	pH Readout enhanced ELISA for point-of-care testing of cardiac troponin I. Chinese Chemical Letters, 2017, 28, 1878-1880.	9.0	15
65	Synthesis and biological evaluation of JL-A7 derivatives as potent ABCB1 inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 4194-4202.	3.0	9
66	Ternary Pt-Co-Cu nanodendrites for ultrasensitive voltammetric determination of insulin at very low working potential. Mikrochimica Acta, 2017, 184, 2031-2038.	5.0	7
67	Robust enzyme-free electrochemical immunoassay of CEA enhanced by porous PdCu nanoparticles. Electrochimica Acta, 2017, 252, 374-380.	5.2	19
68	Fast Preparation of Polydopamine Nanoparticles Catalyzed by Fe²⁺/H₂O₂ for Visible Sensitive Smartphone-Enabled Cytosensing. ACS Applied Materials & Interfaces, 2017, 9, 28339-28345.	8.0	47
69	Amperometric sandwich immunoassay for the carcinoembryonic antigen using a glassy carbon electrode modified with iridium nanoparticles, polydopamine and reduced graphene oxide. Mikrochimica Acta, 2017, 184, 169-175.	5.0	27
70	A pH Indicator-linked Immunosorbent assay following direct amplification strategy for colorimetric detection of protein biomarkers. Biosensors and Bioelectronics, 2017, 90, 1-5.	10.1	33
71	Enhanced amperometric immunoassay for the prostate specific antigen using Pt-Cu hierarchical trigonal bipyramid nanoframes asÂa label. Mikrochimica Acta, 2017, 184, 423-429.	5.0	15
72	Ternary Pt@Pd@Ru nanodendrite-decorated graphene oxide for sensitive electrochemical immunoassy of CEA. RSC Advances, 2016, 6, 42994-42999.	3.6	7

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73	Graphene loaded bimetallic Au@Pt nanodendrites enhancing ultrasensitive electrochemical immunoassay of AFP. Sensors and Actuators B: Chemical, 2016, 231, 513-519.	7.8	50
74	Bimetallic FeCoâ€“Nâ€“C catalyst for efficient oxygen reduction reaction. Electroanalysis, 0, , .	2.9	5