

Wenbing Shi

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,531
citations

361413

20
h-index

214800

47
g-index

48
all docs

48
docs citations

48
times ranked

3074
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanodots as peroxidase mimetics and their applications to glucose detection. <i>Chemical Communications</i> , 2011, 47, 6695.	4.1	833
2	CoFe ₂ O ₄ magnetic nanoparticles as a peroxidase mimic mediated chemiluminescence for hydrogen peroxide and glucose. <i>Chemical Communications</i> , 2011, 47, 10785.	4.1	281
3	Co ₃ O ₄ -reduced graphene oxide nanocomposite as an effective peroxidase mimetic and its application in visual biosensing of glucose. <i>Analytica Chimica Acta</i> , 2013, 796, 92-100.	5.4	181
4	Fe-Co bimetallic alloy nanoparticles as a highly active peroxidase mimetic and its application in biosensing. <i>Chemical Communications</i> , 2013, 49, 5013.	4.1	173
5	Metal-organic framework MIL-53(Fe): facile microwave-assisted synthesis and use as a highly active peroxidase mimetic for glucose biosensing. <i>RSC Advances</i> , 2015, 5, 17451-17457.	3.6	114
6	Fe ₃ O ₄ -MWCNT magnetic nanocomposites as efficient peroxidase mimic catalysts in a Fenton-like reaction for water purification without pH limitation. <i>RSC Advances</i> , 2014, 4, 45809-45815.	3.6	89
7	Atomically dispersed Fe/Bi dual active sites single-atom nanozymes for cascade catalysis and peroxydisulfate activation to degrade dyes. <i>Journal of Hazardous Materials</i> , 2022, 422, 126929.	12.4	69
8	Ratiometric SERS biosensor for sensitive and reproducible detection of microRNA based on mismatched catalytic hairpin assembly. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111619.	10.1	66
9	High-Efficiency CNNS@NH ₂ -MIL(Fe) Electrochemiluminescence Emitters Coupled with Ti ₃ C ₂ Nanosheets as a Matrix for a Highly Sensitive Cardiac Troponin I Assay. <i>Analytical Chemistry</i> , 2020, 92, 8992-9000.	6.5	59
10	Mesoporous material-based manipulation of the enzyme-like activity of CoFe ₂ O ₄ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2482.	10.3	56
11	Recent advances in catalytic hairpin assembly signal amplification-based sensing strategies for microRNA detection. <i>Talanta</i> , 2021, 235, 122735.	5.5	45
12	Nitrogen-doped Ti ₃ C ₂ MXene quantum dots as novel high-efficiency electrochemiluminescent emitters for sensitive mucin 1 detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130891.	7.8	42
13	An excellently stable Tb ^{III} -organic framework with outstanding stability as a rapid, reversible, and multi-responsive luminescent sensor in water. <i>Dalton Transactions</i> , 2019, 48, 12910-12917.	3.3	39
14	Metal-organic framework-derived yolk-shell hollow Ni/NiO@C microspheres for bifunctional non-enzymatic glucose and hydrogen peroxide biosensors. <i>Journal of Materials Science</i> , 2021, 56, 442-456.	3.7	36
15	Molybdenum disulfides nanoflowers anchoring iron-based metal organic framework: A synergetic catalyst with superior peroxidase-mimicking activity for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127530.	7.8	32
16	Ion-pair complex-based solvent extraction combined with chemiluminescence determination of chlorpromazine hydrochloride with luminol in reverse micelles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 197-203.	2.8	31
17	Structural Engineering of Hollow Microflower-like CuS@C Hybrids as Versatile Electrochemical Sensing Platform for Highly Sensitive Hydrogen Peroxide and Hydrazine Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40942-40952.	8.0	31
18	Catalyzed Deposition of Signal Reporter for Highly Sensitive Surface-Enhanced Raman Spectroscopy Immunoassay Based on Tyramine Signal Amplification Strategy. <i>Analytical Chemistry</i> , 2018, 90, 13159-13162.	6.5	28

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19	DNA Cascade Reaction with High-Efficiency Target Conversion for Ultrasensitive Electrochemiluminescence microRNA Detection. <i>Analytical Chemistry</i> , 2019, 91, 10258-10265.	6.5	25
20	Removal and recovery of vanadium from waste by chemical precipitation, adsorption, solvent extraction, remediation, photo-catalyst reduction and membrane filtration. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1763-1776.	16.2	24
21	Assembly of Two Self-Interpenetrating Metal-Organic Frameworks Based on a Trigonal Ligand: Syntheses, Crystal Structures, and Properties. <i>Inorganic Chemistry</i> , 2020, 59, 7135-7142.	4.0	23
22	Signal-on-SERS sensing platform for highly sensitive and selective Pb ²⁺ detection based on catalytic hairpin assembly. <i>Analytica Chimica Acta</i> , 2020, 1127, 106-113.	5.4	22
23	A signal-on electrochemical aptasensor for highly sensitive and specific detection of kanamycin based on target-induced signaling probe shifting mechanism. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 480-487.	7.8	18
24	Developing a fast electrochemical aptasensor method for the quantitative detection of penicillin G residue in milk with high sensitivity and good anti-fouling ability. <i>Microchemical Journal</i> , 2020, 157, 105077.	4.5	16
25	Construction of a dual-response luminescent metal-organic framework with excellent stability for detecting Fe ³⁺ and antibiotic with high selectivity and sensitivity. <i>Journal of Solid State Chemistry</i> , 2020, 284, 121183.	2.9	16
26	Luminol-silver nitrate chemiluminescence enhancement induced by cobalt ferrite nanoparticles. <i>Luminescence</i> , 2011, 26, 547-552.	2.9	14
27	Copper-Catalyzed Coupling of Sulfonamides with Alkylamines: Synthesis of (E)-N-Sulfonylformamidines. <i>Journal of Organic Chemistry</i> , 2020, 85, 2092-2102.	3.2	13
28	Highly sensitive and selective fluorescent assay for quantitative detection of divalent copper ion in environmental water samples. <i>Analytical Methods</i> , 2011, 3, 2102.	2.7	12
29	A fast-responsive fluorescent probe for sensitive detection of graphene oxide based on MoS ₂ quantum dots. <i>Analyst</i> , 2018, 143, 3107-3113.	3.5	12
30	Hierarchical Ag/Bi ₂ MoO ₆ hollow nanoboxes with high photocatalytic performance. <i>Dalton Transactions</i> , 2019, 48, 12009-12012.	3.3	11
31	Two kanamycin electrochemical aptamer-based sensors using different signal transduction mechanisms: A comparison of electrochemical behavior and sensing performance. <i>Bioelectrochemistry</i> , 2019, 129, 270-277.	4.6	11
32	A controllable synthesis of hollow pumpkin-like CuO/Cu ₂ O composites for ultrasensitive non-enzymatic glucose and hydrogen peroxide biosensors. <i>New Journal of Chemistry</i> , 2020, 44, 20411-20418.	2.8	11
33	Anion engineering guided MOF-to-hollow nickel phosphate transformation enabling robust electrochemical platforms for detection of hydrogen peroxide and hydrazine. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132373.	7.8	11
34	Aptasensor Based on MoS ₂ Quantum Dots with Upconversion Fluorescence for Microcystin-LR Detection via the Inner Filter Effect. <i>ACS Sustainable Chemistry and Engineering</i> , 0, .	6.7	9
35	Hierarchical MoS ₂ /MoO ₃ nanotubes with excellent electrochemical performance: MoS ₂ bubbles on MoO ₃ nanotubes. <i>CrystEngComm</i> , 2019, 21, 6698-6702.	2.6	8
36	Design and Construction of a Porous Heterometallic Organic Framework Based on Cu ₆ I ₆ Clusters and One-Dimensional Tb ^{III} Chains: Syntheses, Crystal Structure, and Various Properties. <i>Crystal Growth and Design</i> , 2020, 20, 4135-4143.	3.0	8

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37	Programming a hollow core-shell CuS@CuSe heteromicrocubes synergizing superior multienzyme activity function as enhanced biosensing platforms. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131592.	7.8	8
38	pH-regulated reversible photoluminescence and localized surface plasmon resonances arising from molybdenum oxide quantum dot. <i>Applied Materials Today</i> , 2020, 18, 100516.	4.3	7
39	Lengthening the aptamer to hybridize with a stem-loop DNA assistant probe for the electrochemical detection of kanamycin with improved sensitivity. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2391-2397.	3.7	7
40	Rational design and synthesis of a stable pillar-layer NaI-organic framework as a multi-responsive luminescent sensor in aqueous solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118106.	3.9	7
41	Facile and rapid synthesis of emission color-tunable molybdenum oxide quantum dots as a versatile probe for fluorescence imaging and environmental monitoring. <i>Analyst</i> , 2020, 145, 6270-6276.	3.5	6
42	Pork Heart Tissue-Based Chemiluminescence Biosensor for Pyruvic Acid. <i>Analytical Letters</i> , 2006, 39, 1823-1836.	1.8	5
43	Fabrication of Bi ₂ MoO ₆ /ZnO Heterojunction Nanosheet Array with High Photoelectrochemical Property. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4007-4014.	0.9	5
44	Efficient Recovery of Vanadium from High-Chromium Vanadium Slag with Calcium-Roasting Acidic Leaching. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 160.	2.0	5
45	Coordination-driven assembly of a 3d ⁴ f heterometallic organic framework with 1D Cu ₄ I ₄ and Eu-based chains: syntheses, structures and various properties. <i>Dalton Transactions</i> , 2020, 49, 11209-11216.	3.3	4
46	Effect of structure on sensing performance of a target induced signaling probe shifting DNA-based (TISPS-DNA) sensor. <i>Biosensors and Bioelectronics</i> , 2017, 91, 817-823.	10.1	3
47	A Clean Method for Vanadium (V) Reduction with Oxalic Acid. <i>Metals</i> , 2022, 12, 557.	2.3	3
48	C ₃ N ₄ /Cu/ZnFe ₂ O ₄ Ternary Nanocomposites: Removal of Environmental Pollutants by the Synergy of Physical Adsorption and Photocatalysis. <i>ChemistrySelect</i> , 2022, 7, .	1.5	2