

Wenxin Zhu

List of Publications by Year in descending order

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76
papers

4,784
citations

81900

39
h-index

95266

68
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76
all docs

76
docs citations

76
times ranked

6452
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel sulfide microsphere film on Ni foam as an efficient bifunctional electrocatalyst for overall water splitting. <i>Chemical Communications</i> , 2016, 52, 1486-1489.	4.1	499
2	Design and Application of Foams for Electrocatalysis. <i>ChemCatChem</i> , 2017, 9, 1721-1743.	3.7	245
3	A self-standing nanoporous MoP ₂ nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7169-7173.	10.3	204
4	Wet-chemistry topotactic synthesis of bimetallic iron–nickel sulfide nanoarrays: an advanced and versatile catalyst for energy efficient overall water and urea electrolysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4346-4353.	10.3	181
5	Mechanism insight into rapid photocatalytic disinfection of Salmonella based on vanadate QDs-interspersed g-C ₃ N ₄ heterostructures. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 228-237.	20.2	165
6	Traditional NiCo ₂ S ₄ Phase with Porous Nanosheets Array Topology on Carbon Cloth: A Flexible, Versatile and Fabulous Electrocatalyst for Overall Water and Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5011-5020.	6.7	164
7	NH ₂ -MIL-53(Al) Metal–Organic Framework as the Smart Platform for Simultaneous High-Performance Detection and Removal of Hg ²⁺ . <i>Inorganic Chemistry</i> , 2019, 58, 12573-12581.	4.0	128
8	A practical-oriented NiFe-based water-oxidation catalyst enabled by ambient redox and hydrolysis co-precipitation strategy. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 844-852.	20.2	125
9	Amorphous Fe/Mn bimetal–organic frameworks: outer and inner structural designs for efficient arsenic(III) removal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2845-2854.	10.3	118
10	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. <i>Inorganic Chemistry</i> , 2019, 58, 1638-1646.	4.0	118
11	Versatile molybdenum disulfide based antibacterial composites for in vitro enhanced sterilization and in vivo focal infection therapy. <i>Nanoscale</i> , 2016, 8, 11642-11648.	5.6	117
12	A one-step approach to the large-scale synthesis of functionalized MoS ₂ nanosheets by ionic liquid assisted grinding. <i>Nanoscale</i> , 2015, 7, 10210-10217.	5.6	115
13	Interconnected urchin-like cobalt phosphide microspheres film for highly efficient electrochemical hydrogen evolution in both acidic and basic media. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10114-10117.	10.3	103
14	Au Promoted Nickel–Iron Layered Double Hydroxide Nanoarrays: A Modular Catalyst Enabling High-Performance Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19807-19814.	8.0	101
15	Conductive Leaflike Cobalt Metal–Organic Framework Nanoarray on Carbon Cloth as a Flexible and Versatile Anode toward Both Electrocatalytic Glucose and Water Oxidation. <i>Inorganic Chemistry</i> , 2018, 57, 8422-8428.	4.0	99
16	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. <i>Mikrochimica Acta</i> , 2018, 185, 7.	5.0	96
17	One-pot synthesis of NiFe ₂ O ₄ integrated with EDTA-derived carbon dots for enhanced removal of tetracycline. <i>Chemical Engineering Journal</i> , 2017, 310, 187-196.	12.7	92
18	Bioinspired foam with large 3D macropores for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16220-16227.	10.3	81

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19	ssDNA-tailorable oxidase-mimicking activity of spinel MnCo ₂ O ₄ for sensitive biomolecular detection in food sample. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 79-87.	7.8	75
20	Patulin removal from apple juice using a novel cysteine-functionalized metal-organic framework adsorbent. <i>Food Chemistry</i> , 2019, 270, 1-9.	8.2	70
21	Facet-selective response of trigger molecule to CeO ₂ {1 1 0} for up-regulating oxidase-like activity. <i>Chemical Engineering Journal</i> , 2017, 330, 746-752.	12.7	69
22	Surface engineering of hierarchical Ni(OH) ₂ nanosheet@nanowire configuration toward superior urea electrolysis. <i>Electrochimica Acta</i> , 2018, 268, 211-217.	5.2	67
23	Enhanced visible-light-driven photocatalytic sterilization of tungsten trioxide by surface-engineering oxygen vacancy and carbon matrix. <i>Chemical Engineering Journal</i> , 2018, 348, 292-300.	12.7	66
24	In-Situ Fixation of All-Inorganic MoS ₂ /FeS Clusters for the Highly Selective Removal of Lead(II). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32720-32726.	8.0	65
25	Surface Engineering of Carbon Fiber Paper toward Exceptionally High-Performance and Stable Electrochemical Nitrite Sensing. <i>ACS Sensors</i> , 2019, 4, 2980-2987.	7.8	63
26	Binary composite MoS ₂ /TiO ₂ nanotube arrays as a recyclable and efficient photocatalyst for solar water disinfection. <i>Chemical Engineering Journal</i> , 2020, 401, 126052.	12.7	62
27	Graphitic carbon nitride (g-C ₃ N ₄)-based nanostructured materials for photodynamic inactivation: Synthesis, efficacy and mechanism. <i>Chemical Engineering Journal</i> , 2021, 404, 126528.	12.7	61
28	A review of multilayer and composite films and coatings for active biodegradable packaging. <i>Npj Science of Food</i> , 2022, 6, 18.	5.5	61
29	Agar Aerogel Containing Small-Sized Zeolitic Imidazolate Framework Loaded Carbon Nitride: A Solar-Triggered Regenerable Decontaminant for Convenient and Enhanced Water Purification. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9347-9354.	6.7	60
30	A hybrid monolithic column based on layered double hydroxide-alginate hydrogel for selective solid phase extraction of lead ions in food and water samples. <i>Food Chemistry</i> , 2018, 257, 155-162.	8.2	57
31	Facile green synthesis of graphene-Au nanorod nanoassembly for on-line extraction and sensitive stripping analysis of methyl parathion. <i>Electrochimica Acta</i> , 2014, 146, 419-428.	5.2	53
32	Surface Engineering of a Nickel Oxide@Nickel Hybrid Nanoarray as a Versatile Catalyst for Both Superior Water and Urea Oxidation. <i>Inorganic Chemistry</i> , 2018, 57, 4693-4698.	4.0	51
33	Energy-efficient 1.67 V single- and 0.90 V dual-electrolyte based overall water-electrolysis devices enabled by a ZIF-L derived acid-base bifunctional cobalt phosphide nanoarray. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24277-24284.	10.3	51
34	Highly Sensitive and Selective Determination of Tertiary Butylhydroquinone in Edible Oils by Competitive Reaction Induced "Off-On" Fluorescent Switch. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 706-713.	5.2	45
35	Ionic silver-infused peroxidase-like metal-organic frameworks as versatile "antibiotic" for enhanced bacterial elimination. <i>Nanoscale</i> , 2020, 12, 16330-16338.	5.6	45
36	Monolithic copper selenide submicron particulate film/copper foam anode catalyst for ultrasensitive electrochemical glucose sensing in human blood serum. <i>Journal of Materials Chemistry B</i> , 2018, 6, 718-724.	5.8	44

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37	In-situ synthesis of self-standing cobalt-doped nickel sulfide nanoarray as a recyclable and integrated catalyst for peroxydisulfate activation. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121184.	20.2	43
38	Self-ZIF template-directed synthesis of a CoS nanoflake array as a Janus electrocatalyst for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2090-2095.	6.0	42
39	Surface engineering of nickel selenide nanosheets array on nickel foam: An integrated anode for glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 278, 110-116.	7.8	41
40	Effective hydrolysis of sodium borohydride driven by self-supported cobalt oxide nanorod array for on-demand hydrogen generation. <i>Catalysis Communications</i> , 2016, 87, 94-97.	3.3	39
41	Rational design of smart adsorbent equipped with a sensitive indicator via ligand exchange: A hierarchical porous mixed-ligand MOF for simultaneous removal and detection of Hg ²⁺ . <i>Nano Research</i> , 2021, 14, 1523-1532.	10.4	38
42	DNA-mediated gold nanoparticle signal transducers for combinatorial logic operations and heavy metal ions sensing. <i>Biosensors and Bioelectronics</i> , 2015, 72, 218-224.	10.1	37
43	In situ surface electrochemical co-reduction route towards controllable construction of AuNPs/ERGO electrochemical sensing platform for simultaneous determination of BHA and TBHQ. <i>Electrochimica Acta</i> , 2015, 182, 847-855.	5.2	36
44	Dual role of hydrogen peroxide on the oxidase-like activity of nanoceria and its application for colorimetric hydrogen peroxide and glucose sensing. <i>RSC Advances</i> , 2016, 6, 59939-59945.	3.6	35
45	The inhibitory effect of selenium nanoparticles on protein glycation <i>in vitro</i> . <i>Nanotechnology</i> , 2015, 26, 145703.	2.6	33
46	Facile and sensitive electrochemical detection of methyl parathion based on a sensing platform constructed by the direct growth of carbon nanotubes on carbon paper. <i>RSC Advances</i> , 2016, 6, 58771-58779.	3.6	33
47	Electrochemically co-reduced 3D GO-C 60 nanoassembly as an efficient nanocatalyst for electrochemical detection of bisphenol S. <i>Electrochimica Acta</i> , 2016, 188, 85-90.	5.2	33
48	Engineering multi-stage nickel oxide rod-on-sheet nanoarrays on Ni foam: A superior catalytic electrode for ultrahigh-performance electrochemical sensing of glucos. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 416-423.	7.8	33
49	Conductive polyaniline-graphene oxide sorbent for electrochemically assisted solid-phase extraction of lead ions in aqueous food samples. <i>Analytica Chimica Acta</i> , 2020, 1100, 57-65.	5.4	32
50	Nanobodies Based on a Sandwich Immunoassay for the Detection of Staphylococcal Enterotoxin B Free from Interference by Protein A. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5959-5968.	5.2	32
51	Facile colorimetric method for simple and rapid detection of endotoxin based on counterion-mediated gold nanorods aggregation. <i>Biosensors and Bioelectronics</i> , 2014, 55, 242-248.	10.1	31
52	Highly specific and sensitive determination of propyl gallate in food by a novel fluorescence sensor. <i>Food Chemistry</i> , 2018, 256, 45-52.	8.2	31
53	Simultaneous colorimetric determination of bisphenol A and bisphenol S via a multi-level DNA circuit mediated by aptamers and gold nanoparticles. <i>Mikrochimica Acta</i> , 2017, 184, 951-959.	5.0	30
54	Cobalt phosphide nanowires: an efficient electrocatalyst for enzymeless hydrogen peroxide detection. <i>Nanotechnology</i> , 2016, 27, 33LT01.	2.6	28

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55	Ambient self-derivation of nickel-cobalt hydroxysulfide multistage nanoarray for high-performance electrochemical glucose sensing. <i>Applied Surface Science</i> , 2020, 505, 144636.	6.1	28
56	Surface Oxygen Functionalization of Carbon Cloth toward Enhanced Electrochemical Dopamine Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16063-16072.	6.7	26
57	Colorimetric and visual determination of total nereistoxin-related insecticides by exploiting a nereistoxin-driven aggregation of gold nanoparticles. <i>Mikrochimica Acta</i> , 2015, 182, 401-408.	5.0	25
58	Enhanced Exfoliation Effect of Solid Auxiliary Agent On the Synthesis of Biofunctionalized MoS ₂ Using Grindstone Chemistry. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 825-832.	2.3	24
59	Highly efficient and cost-effective removal of patulin from apple juice by surface engineering of diatomite with sulfur-functionalized graphene oxide. <i>Food Chemistry</i> , 2019, 300, 125111.	8.2	22
60	An integrated nanoflower-like MoS ₂ @CuCo ₂ O ₄ heterostructure for boosting electrochemical glucose sensing in beverage. <i>Food Chemistry</i> , 2022, 396, 133630.	8.2	22
61	Label-free fluorescence aptasensor for sensitive determination of bisphenol S by the salt-adjusted FRET between CQDs and MoS ₂ . <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 717-724.	7.8	21
62	Cobalt phosphide nanowall arrays supported on carbon cloth: an efficient monolithic non-noble-metal hydrogen evolution catalyst. <i>Nanotechnology</i> , 2016, 27, 475702.	2.6	19
63	Advanced konjac glucomannan-based films in food packaging: Classification, preparation, formation mechanism and function. <i>LWT - Food Science and Technology</i> , 2021, 152, 112338.	5.2	19
64	High-performance electrochemical nitrite sensing enabled using commercial carbon fiber cloth. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1501-1506.	6.0	18
65	Facile construction of Fe ³⁺ /Fe ²⁺ mediated charge transfer pathway in MIL-101 for effective tetracycline degradation. <i>Journal of Cleaner Production</i> , 2022, 359, 131808.	9.3	17
66	A Conductive Network and Dipole Field for Harnessing Photogenerated Charge Kinetics. <i>Advanced Materials</i> , 2021, 33, e2104099.	21.0	15
67	pH-Assisted surface functionalization of selenium nanoparticles with curcumin to achieve enhanced cancer chemopreventive activity. <i>RSC Advances</i> , 2016, 6, 72213-72223.	3.6	14
68	A G-quadruplex DNAzyme-based colorimetric method for facile detection of <i>Alicyclobacillus acidoterrestris</i> . <i>Analyst</i> , 2014, 139, 4315.	3.5	13
69	Construction of In ₂ S ₃ @ZIF-8@ZnIn ₂ S ₄ hierarchical nanoflower heterostructures to promote photocatalytic reduction activity. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 51-59.	6.0	11
70	Energy-efficient electrolytic H ₂ production and high-value added H ₂ -acid-base co-electrosynthesis modes enabled by a Ni ₂ P catalyst in a diaphragm cell. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121726.	20.2	10
71	Does the intrinsic photocontrollable oxidase-mimicking activity of 2-aminoterephthalic acid dominate the activity of metal-organic frameworks?. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3482-3490.	6.0	9
72	Acetylcholinesterase-Free Colorimetric Detection of Chlorpyrifos in Fruit Juice Based on the Oxidation Reaction of H ₂ O ₂ with Chlorpyrifos and ABTS ^{•+} Catalyzed by Hemin/G-Quadruplex DNAzyme. <i>Food Analytical Methods</i> , 2015, 8, 1556-1564.	2.6	8

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73	Two-Dimensional Zeolitic Imidazolate Framework-L-Derived Iron-Cobalt Oxide Nanoparticle-Composed Nanosheet Array for Water Oxidation. <i>Inorganic Chemistry</i> , 2019, 58, 6231-6237.	4.0	7
74	Neutral-Alkaline Hybrid Water Electrolysis at Less Than 1.43 V Enabled by a Branched NiCo-Hydroxysulfide Nanoarray. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15294-15302.	6.7	6
75	“Pulling”-conjugated polyene biomolecules into water: enhancement of light-thermal stability and bioactivity by a facile graphene oxide-based phase-transfer approach. <i>RSC Advances</i> , 2014, 4, 48765-48769.	3.6	5
76	Asymmetric Electrolyte Design: Energy-Efficient Electrolytic Hydrogen Production under 0.95 V Driven by Janus Metal Phosphide Nanoarray. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16163-16171.	6.7	2