Wentao Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nickel sulfide microsphere film on Ni foam as an efficient bifunctional electrocatalyst for overall water splitting. Chemical Communications, 2016, 52, 1486-1489.	4.1	499
2	One-pot synthesis of multifunctional magnetic ferrite–MoS ₂ –carbon dot nanohybrid adsorbent for efficient Pb(<scp>ii</scp>) removal. Journal of Materials Chemistry A, 2016, 4, 3893-3900.	10.3	205
3	Oxygenâ€Generating MnO ₂ Nanodotsâ€Anchored Versatile Nanoplatform for Combined Chemoâ€Photodynamic Therapy in Hypoxic Cancer. Advanced Functional Materials, 2018, 28, 1706375.	14.9	203
4	Interface engineering of metal organic framework on graphene oxide with enhanced adsorption capacity for organophosphorus pesticide. Chemical Engineering Journal, 2017, 313, 19-26.	12.7	190
5	Wet-chemistry topotactic synthesis of bimetallic iron–nickel sulfide nanoarrays: an advanced and versatile catalyst for energy efficient overall water and urea electrolysis. Journal of Materials Chemistry A, 2018, 6, 4346-4353.	10.3	181
6	Mechanism insight into rapid photocatalytic disinfection of Salmonella based on vanadate QDs-interspersed g-C3N4 heterostructures. Applied Catalysis B: Environmental, 2018, 225, 228-237.	20.2	165
7	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. ACS Sustainable Chemistry and Engineering, 2018, 6, 5011-5020.	6.7	164
8	Internally extended growth of core–shell NH ₂ -MIL-101(Al)@ZIF-8 nanoflowers for the simultaneous detection and removal of Cu(<scp>ii</scp>). Journal of Materials Chemistry A, 2018, 6, 21029-21038.	10.3	150
9	Encapsulation of the flavonoid quercetin with chitosan-coated nano-liposomes. LWT - Food Science and Technology, 2017, 85, 37-44.	5.2	141
10	NH ₂ -MIL-53(Al) Metal–Organic Framework as the Smart Platform for Simultaneous High-Performance Detection and Removal of Hg ²⁺ . Inorganic Chemistry, 2019, 58, 12573-12581.	4.0	128
11	Amorphous Fe/Mn bimetal–organic frameworks: outer and inner structural designs for efficient arsenic(<scp>iii</scp>) removal. Journal of Materials Chemistry A, 2019, 7, 2845-2854.	10.3	118
12	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. Inorganic Chemistry, 2019, 58, 1638-1646.	4.0	118
13	Versatile molybdenum disulfide based antibacterial composites for in vitro enhanced sterilization and in vivo focal infection therapy. Nanoscale, 2016, 8, 11642-11648.	5.6	117
14	A one-step approach to the large-scale synthesis of functionalized MoS ₂ nanosheets by ionic liquid assisted grinding. Nanoscale, 2015, 7, 10210-10217.	5.6	115
15	Au Promoted Nickel–Iron Layered Double Hydroxide Nanoarrays: A Modular Catalyst Enabling High-Performance Oxygen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 19807-19814.	8.0	101
16	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. Mikrochimica Acta, 2018, 185, 7.	5.0	96
17	One-pot synthesis of NiFe2O4 integrated with EDTA-derived carbon dots for enhanced removal of tetracycline. Chemical Engineering Journal, 2017, 310, 187-196.	12.7	92
18	Mixed-Valence Ce-BPyDC Metal–Organic Framework with Dual Enzyme-like Activities for Colorimetric Biosensing. Inorganic Chemistry, 2019, 58, 11382-11388.	4.0	89

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19	Bioinspired foam with large 3D macropores for efficient solar steam generation. Journal of Materials Chemistry A, 2018, 6, 16220-16227.	10.3	81
20	ssDNA-tailorable oxidase-mimicking activity of spinel MnCo2O4 for sensitive biomolecular detection in food sample. Sensors and Actuators B: Chemical, 2018, 269, 79-87.	7.8	75
21	The highly efficient elimination of intracellular bacteria <i>via</i> a metal organic framework (MOF)-based three-in-one delivery system. Nanoscale, 2019, 11, 9468-9477.	5.6	71
22	Patulin removal from apple juice using a novel cysteine-functionalized metal-organic framework adsorbent. Food Chemistry, 2019, 270, 1-9.	8.2	70
23	Facet-selective response of trigger molecule to CeO2 {1 1 0} for up-regulating oxidase-like activity. Chemical Engineering Journal, 2017, 330, 746-752.	12.7	69
24	One-pot bottom-up fabrication of a 2D/2D heterojuncted nanozyme towards optimized peroxidase-like activity for sulfide ions sensing. Sensors and Actuators B: Chemical, 2020, 306, 127565.	7.8	69
25	Surface engineering of hierarchical Ni(OH)2 nanosheet@nanowire configuration toward superior urea electrolysis. Electrochimica Acta, 2018, 268, 211-217.	5.2	67
26	Nanozyme amplification mediated on-demand multiplex lateral flow immunoassay with dual-readout and broadened detection range. Biosensors and Bioelectronics, 2020, 169, 112610.	10.1	67
27	Enhanced visible-light-driven photocatalytic sterilization of tungsten trioxide by surface-engineering oxygen vacancy and carbon matrix. Chemical Engineering Journal, 2018, 348, 292-300.	12.7	66
28	In-Situ Fixation of All-Inorganic Mo–Fe–S Clusters for the Highly Selective Removal of Lead(II). ACS Applied Materials & Interfaces, 2017, 9, 32720-32726.	8.0	65
29	Graphitic carbon nitride (g-C3N4)-based nanostructured materials for photodynamic inactivation: Synthesis, efficacy and mechanism. Chemical Engineering Journal, 2021, 404, 126528.	12.7	61
30	Agar Aerogel Containing Small-Sized Zeolitic Imidazolate Framework Loaded Carbon Nitride: A Solar-Triggered Regenerable Decontaminant for Convenient and Enhanced Water Purification. ACS Sustainable Chemistry and Engineering, 2017, 5, 9347-9354.	6.7	60
31	A hybrid monolithic column based on layered double hydroxide-alginate hydrogel for selective solid phase extraction of lead ions in food and water samples. Food Chemistry, 2018, 257, 155-162.	8.2	57
32	Polydopamine nanospheres as high-affinity signal tag towards lateral flow immunoassay for sensitive furazolidone detection. Food Chemistry, 2020, 315, 126310.	8.2	54
33	Facile green synthesis of graphene-Au nanorod nanoassembly for on-line extraction and sensitive stripping analysis of methyl parathion. Electrochimica Acta, 2014, 146, 419-428.	5.2	53
34	Energy-efficient 1.67ÂV single- and 0.90 V dual-electrolyte based overall water-electrolysis devices enabled by a ZIF-L derived acid–base bifunctional cobalt phosphide nanoarray. Journal of Materials Chemistry A, 2018, 6, 24277-24284.	10.3	51
35	Enhanced functional properties of chitosan films incorporated with curcumin-loaded hollow graphitic carbon nitride nanoparticles for bananas preservation. Food Chemistry, 2022, 366, 130539.	8.2	51
36	Fluorometric determination of dopamine by using molybdenum disulfide quantum dots. Mikrochimica Acta, 2018, 185, 234.	5.0	50

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37	An improved clenbuterol detection by immunochromatographic assay with bacteria@Au composite as signal amplifier. Food Chemistry, 2018, 262, 48-55.	8.2	49
38	Highly sensitive and selective colorimetric detection of glutathione via enhanced Fenton-like reaction of magnetic metal organic framework. Sensors and Actuators B: Chemical, 2018, 262, 95-101.	7.8	46
39	Ionic silver-infused peroxidase-like metal–organic frameworks as versatile "antibiotic―for enhanced bacterial elimination. Nanoscale, 2020, 12, 16330-16338.	5.6	45
40	Monolithic copper selenide submicron particulate film/copper foam anode catalyst for ultrasensitive electrochemical glucose sensing in human blood serum. Journal of Materials Chemistry B, 2018, 6, 718-724.	5.8	44
41	A photothermal and self-induced Fenton dual-modal antibacterial platform for synergistic enhanced bacterial elimination. Applied Catalysis B: Environmental, 2021, 295, 120315.	20.2	43
42	Applicability of biological dye tracer in strip biosensor for ultrasensitive detection of pathogenic bacteria. Food Chemistry, 2019, 274, 816-821.	8.2	42
43	Luminescent metal-organic frameworks (LMOFs): An emerging sensing platform for food quality and safety control. Trends in Food Science and Technology, 2021, 111, 716-730.	15.1	39
44	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 Hg2+. Nano Research, 2021, 14, 1523-1532.	10.4	38
45	Photothermal-boosted effect of binary Cu Fe bimetallic magnetic MOF heterojunction for high-performance photo-Fenton degradation of organic pollutants. Science of the Total Environment, 2021, 795, 148883.	8.0	38
46	DNA-mediated gold nanoparticle signal transducers for combinatorial logic operations and heavy metal ions sensing. Biosensors and Bioelectronics, 2015, 72, 218-224.	10.1	37
47	In Situ Cascade Derivation toward a Hierarchical Layered Double Hydroxide Magnetic Absorbent for High-Performance Protein Separation. ACS Sustainable Chemistry and Engineering, 2020, 8, 4966-4974.	6.7	37
48	Copper-Sensitized "Turn On―Peroxidase-Like Activity of MMoO ₄ (M = Co, Ni) Flowers for Selective Detection of Aquatic Copper lons. ACS Sustainable Chemistry and Engineering, 2020, 8, 12568-12576.	6.7	36
49	Dextran-stabilized Fe-Mn bimetallic oxidase-like nanozyme for total antioxidant capacity assay of fruit and vegetable food. Food Chemistry, 2022, 371, 131115.	8.2	36
50	Antibiotic-loaded MoS ₂ nanosheets to combat bacterial resistance via biofilm inhibition. Nanotechnology, 2017, 28, 225101.	2.6	34
51	Chemical-staining based lateral flow immunoassay: A nanomaterials-free and ultra-simple tool for a small molecule detection. Sensors and Actuators B: Chemical, 2019, 279, 427-432.	7.8	34
52	The inhibitory effect of selenium nanoparticles on protein glycation <i>in vitro</i> . Nanotechnology, 2015, 26, 145703.	2.6	33
53	Electrochemically co-reduced 3D GO-C 60 nanoassembly as an efficient nanocatalyst for electrochemical detection of bisphenol S. Electrochimica Acta, 2016, 188, 85-90.	5.2	33
54	Engineering multi-stage nickel oxide rod-on-sheet nanoarrays on Ni foam: A superior catalytic electrode for ultrahigh-performance electrochemical sensing of glucos. Sensors and Actuators B: Chemical, 2018, 255, 416-423.	7.8	33

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55	Visible light responsive, self-activated bionanocomposite films with sustained antimicrobial activity for food packaging. Food Chemistry, 2021, 362, 130201.	8.2	33
56	Conductive polyaniline-graphene oxide sorbent for electrochemically assisted solid-phase extraction of lead ions in aqueous food samples. Analytica Chimica Acta, 2020, 1100, 57-65.	5.4	32
57	Facile colorimetric method for simple and rapid detection of endotoxin based on counterion-mediated gold nanorods aggregation. Biosensors and Bioelectronics, 2014, 55, 242-248.	10.1	31
58	Highly specific and sensitive determination of propyl gallate in food by a novel fluorescence sensor. Food Chemistry, 2018, 256, 45-52.	8.2	31
59	Mussel-inspired Fe-based Tannic acid Nanozyme: A renewable bioresource-derived high-affinity signal tag for dual-readout multiplex lateral flow immunoassay. Chemical Engineering Journal, 2022, 446, 137382.	12.7	29
60	An advanced and universal method to high-efficiently deproteinize plant polysaccharides by dual-functional tannic acid-fellI complex. Carbohydrate Polymers, 2019, 226, 115283.	10.2	27
61	Rapid and selective fluorometric determination of tannic acid using MoO3-x quantum dots. Mikrochimica Acta, 2019, 186, 247.	5.0	27
62	Highly sensitive detection of a small molecule by a paired labels recognition system based lateral flow assay. Analytical and Bioanalytical Chemistry, 2018, 410, 3161-3170.	3.7	26
63	Nanostructured morphology control and phase transition of zeolitic imidazolate frameworks as an ultra-high performance adsorbent for water purification. Inorganic Chemistry Frontiers, 2019, 6, 2667-2674.	6.0	26
64	Missing-linker engineering of Eu (III)-doped UiO-MOF for enhanced detection of heavy metal ions. Chemical Engineering Journal, 2022, 431, 134050.	12.7	26
65	Colorimetric and visual determination of total nereistoxin-related insecticides by exploiting a nereistoxin-driven aggregation of gold nanoparticles. Mikrochimica Acta, 2015, 182, 401-408.	5.0	25
66	Oxidase-like Fe–Mn bimetallic nanozymes for colorimetric detection of ascorbic acid in kiwi fruit. LWT - Food Science and Technology, 2022, 154, 112821.	5.2	25
67	Enhanced Exfoliation Effect of Solid Auxiliary Agent On the Synthesis of Biofunctionalized MoS ₂ Using Grindstone Chemistry. Particle and Particle Systems Characterization, 2016, 33, 825-832.	2.3	24
68	Functionalized natural melanin nanoparticle mimics natural peroxidase for total antioxidant capacity determination. Sensors and Actuators B: Chemical, 2022, 359, 131541.	7.8	24
69	Label-free fluorescence aptasensor for sensitive determination of bisphenol S by the salt-adjusted FRET between CQDs and MoS2. Sensors and Actuators B: Chemical, 2018, 259, 717-724.	7.8	21
70	Acid-Induced Self-Catalyzing Platform Based on Dextran-Coated Copper Peroxide Nanoaggregates for Biofilm Treatment. ACS Applied Materials & Interfaces, 2021, 13, 29269-29280.	8.0	21
71	Biomimetic cell model for fluorometric and smartphone colorimetric dual-signal readout detection of bacterial toxin. Sensors and Actuators B: Chemical, 2020, 312, 127956.	7.8	20
72	Advanced konjac glucomannan-based films in food packaging: Classification, preparation, formation mechanism and function. LWT - Food Science and Technology, 2021, 152, 112338.	5.2	19

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73	A "sense-and-treat―hydrogel for rapid diagnose and photothermal therapy of bacterial infection. Chemical Engineering Journal, 2022, 443, 136437.	12.7	18
74	pH-Assisted surface functionalization of selenium nanoparticles with curcumin to achieve enhanced cancer chemopreventive activity. RSC Advances, 2016, 6, 72213-72223.	3.6	14
75	Natural Sugar: A Green Assistance To Efficiently Exfoliate Inorganic Layered Nanomaterials. Inorganic Chemistry, 2018, 57, 5560-5566.	4.0	14
76	Inhibition of the double-edged effect of curcumin on Maillard reaction in a milk model system by a nanocapsule strategy. LWT - Food Science and Technology, 2017, 84, 643-649.	5.2	10
77	Does the intrinsic photocontrollable oxidase-mimicking activity of 2-aminoterephthalic acid dominate the activity of metal–organic frameworks?. Inorganic Chemistry Frontiers, 2021, 8, 3482-3490.	6.0	9
78	Natural Products Self-Assembled Nanozyme for Cascade Detection of Glucose and Bacterial Viability in Food. Foods, 2021, 10, 2596.	4.3	9
79	Nanozymes for foodborne microbial contaminants detection: Mechanisms, recent advances, and challenges. Food Control, 2022, 141, 109165.	5.5	9
80	Development of a Detection Kit Based on G-Quadruplex DNAzyme for Detection of Lead(II) Ion in Food Samples. Food Analytical Methods, 2015, 8, 1133-1140.	2.6	8
81	Gentiana straminea Maxim. polysaccharide decolored via high-throughput graphene-based column and its anti-inflammatory activity. International Journal of Biological Macromolecules, 2021, 193, 1727-1733.	7.5	8
82	Emergence of dyestuff chemistry-encoded signal tracers in immunochromatographic assays: Fundamentals and recent food applications. Trends in Food Science and Technology, 2022, 127, 335-351.	15.1	8
83	Tetrathiomolybdate@ZIFs nanocrystal clusters: A novel modular and controllable catalyst for photocatalytic application. Materials and Design, 2019, 182, 108042.	7.0	7
84	A sustainable and nondestructive method to high-throughput decolor Lycium barbarum L. polysaccharides by graphene-based nano-decoloration. Food Chemistry, 2021, 338, 127749.	8.2	7
85	Insights into high-efficient removal of tetracycline by a codoped mesoporous carbon adsorbent. Chinese Journal of Chemical Engineering, 2022, 44, 148-156.	3.5	6
86	"Pulling―π-conjugated polyene biomolecules into water: enhancement of light-thermal stability and bioactivity by a facile graphene oxide-based phase-transfer approach. RSC Advances, 2014, 4, 48765-48769.	3.6	5
87	Lycium Barbarum Polysaccharide-Iron (III) Chelate as Peroxidase Mimics for Total Antioxidant Capacity Assay of Fruit and Vegetable Food. Foods, 2021, 10, 2800.	4.3	4