Wentao Zhang

List of Publications by Year
in descending order

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87 papers	5,313 citations	70961 41 h-index	85405 71 g-index
88 all docs	88 docs citations	88 times ranked	6753 citing authors

#	Article	IF	Citations
1	Insights into high-efficient removal of tetracycline by a codoped mesoporous carbon adsorbent. Chinese Journal of Chemical Engineering, 2022, 44, 148-156.	1.7	6
2	Dextran-stabilized Fe-Mn bimetallic oxidase-like nanozyme for total antioxidant capacity assay of fruit and vegetable food. Food Chemistry, 2022, 371, 131115.	4.2	36
3	Enhanced functional properties of chitosan films incorporated with curcumin-loaded hollow graphitic carbon nitride nanoparticles for bananas preservation. Food Chemistry, 2022, 366, 130539.	4.2	51
4	Oxidase-like Feâ€“Mn bimetallic nanozymes for colorimetric detection of ascorbic acid in kiwi fruit. LWT - Food Science and Technology, 2022, 154, 112821.	2.5	25
5	Missing-linker engineering of Eu (III)-doped UiO-MOF for enhanced detection of heavy metal ions. Chemical Engineering Journal, 2022, 431, 134050.	6.6	26
6	Functionalized natural melanin nanoparticle mimics natural peroxidase for total antioxidant capacity determination. Sensors and Actuators B: Chemical, 2022, 359, 131541.	4.0	24
7	A â€œsense-and-treatâ€•hydrogel for rapid diagnose and photothermal therapy of bacterial infection. Chemical Engineering Journal, 2022, 443, 136437.	6.6	18
8	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.	7.8	8
9	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.	6.6	29
10	Nanozymes for foodborne microbial contaminants detection: Mechanisms, recent advances, and challenges. Food Control, 2022, 141, 109165.	2.8	9
11	Graphitic carbon nitride (g-C3N4)-based nanostructured materials for photodynamic inactivation: Synthesis, efficacy and mechanism. Chemical Engineering Journal, 2021, 404, 126528.	6.6	61
12	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.	5.8	38
13	A sustainable and nondestructive method to high-throughput decolor Lycium barbarum L. polysaccharides by graphene-based nano-decoloration. Food Chemistry, 2021, 338, 127749.	4.2	7
14	Does the intrinsic photocontrollable oxidase-mimicking activity of 2-aminoterephthalic acid dominate the activity of metalâ€“organic frameworks?. Inorganic Chemistry Frontiers, 2021, 8, 3482-3490.	3.0	9
15	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.	7.8	39
16	Acid-Induced Self-Catalyzing Platform Based on Dextran-Coated Copper Peroxide Nanoaggregates for Biofilm Treatment. ACS Applied Materials & Interfaces, 2021, 13, 29269-29280.	4.0	21
17	A photothermal and self-induced Fenton dual-modal antibacterial platform for synergistic enhanced bacterial elimination. Applied Catalysis B: Environmental, 2021, 295, 120315.	10.8	43
18	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.	3.9	38

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19	Visible light responsive, self-activated bionanocomposite films with sustained antimicrobial activity for food packaging. Food Chemistry, 2021, 362, 130201.	4.2	33
20	Advanced konjac glucomannan-based films in food packaging: Classification, preparation, formation mechanism and function. LWT - Food Science and Technology, 2021, 152, 112338.	2.5	19
21	Natural Products Self-Assembled Nanozyme for Cascade Detection of Glucose and Bacterial Viability in Food. Foods, 2021, 10, 2596.	1.9	9
22	Lycium Barbarum Polysaccharide-Iron (III) Chelate as Peroxidase Mimics for Total Antioxidant Capacity Assay of Fruit and Vegetable Food. Foods, 2021, 10, 2800.	1.9	4
23	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.	3.6	8
24	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.	2.6	32
25	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.	4.0	69
26	Nanozyme amplification mediated on-demand multiplex lateral flow immunoassay with dual-readout and broadened detection range. Biosensors and Bioelectronics, 2020, 169, 112610.	5.3	67
27	Copper-Sensitized â€œTurn Onâ€•Peroxidase-Like Activity of MMoO₄ (M = Co, Ni) Flowers for Selective Detection of Aquatic Copper Ions. ACS Sustainable Chemistry and Engineering, 2020, 8, 12568-12576.	3.2	36
28	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.	3.2	37
29	Biomimetic cell model for fluorometric and smartphone colorimetric dual-signal readout detection of bacterial toxin. Sensors and Actuators B: Chemical, 2020, 312, 127956.	4.0	20
30	Polydopamine nanospheres as high-affinity signal tag towards lateral flow immunoassay for sensitive furazolidone detection. Food Chemistry, 2020, 315, 126310.	4.2	54
31	Ionic silver-infused peroxidase-like metalâ€“organic frameworks as versatile â€œantibioticâ€•for enhanced bacterial elimination. Nanoscale, 2020, 12, 16330-16338.	2.8	45
32	Patulin removal from apple juice using a novel cysteine-functionalized metal-organic framework adsorbent. Food Chemistry, 2019, 270, 1-9.	4.2	70
33	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.	3.0	26
34	Mixed-Valence Ce-BPyDC Metalâ€“Organic Framework with Dual Enzyme-like Activities for Colorimetric Biosensing. Inorganic Chemistry, 2019, 58, 11382-11388.	1.9	89
35	Tetrathiomolybdate@ZIFs nanocrystal clusters: A novel modular and controllable catalyst for photocatalytic application. Materials and Design, 2019, 182, 108042.	3.3	7
36	NH₂-MIL-53(Al) Metalâ€“Organic Framework as the Smart Platform for Simultaneous High-Performance Detection and Removal of Hg²⁺. Inorganic Chemistry, 2019, 58, 12573-12581.	1.9	128

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37	An advanced and universal method to high-efficiently deproteinize plant polysaccharides by dual-functional tannic acid-feIII complex. Carbohydrate Polymers, 2019, 226, 115283.	5.1	27
38	Amorphous Fe/Mn bimetalâ€“organic frameworks: outer and inner structural designs for efficient arsenic(<scp>iii</scp>) removal. Journal of Materials Chemistry A, 2019, 7, 2845-2854.	5.2	118
39	The highly efficient elimination of intracellular bacteria via a metal organic framework (MOF)-based three-in-one delivery system. Nanoscale, 2019, 11, 9468-9477.	2.8	71
40	Rapid and selective fluorometric determination of tannic acid using MoO3-x quantum dots. Mikrochimica Acta, 2019, 186, 247.	2.5	27
41	Applicability of biological dye tracer in strip biosensor for ultrasensitive detection of pathogenic bacteria. Food Chemistry, 2019, 274, 816-821.	4.2	42
42	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. Inorganic Chemistry, 2019, 58, 1638-1646.	1.9	118
43	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.	4.0	34
44	Surface engineering of hierarchical Ni(OH)2 nanosheet@nanowire configuration toward superior urea electrolysis. Electrochimica Acta, 2018, 268, 211-217.	2.6	67
45	Highly specific and sensitive determination of propyl gallate in food by a novel fluorescence sensor. Food Chemistry, 2018, 256, 45-52.	4.2	31
46	Traditional NiCo₂S₄ 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.	3.2	164
47	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.	4.2	57
48	Natural Sugar: A Green Assistance To Efficiently Exfoliate Inorganic Layered Nanomaterials. Inorganic Chemistry, 2018, 57, 5560-5566.	1.9	14
49	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.	4.0	46
50	Wet-chemistry topotactic synthesis of bimetallic ironâ€“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.	5.2	181
51	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.	2.9	44
52	Oxygenâ€Generating MnO₂ Nanodotsâ€Anchored Versatile Nanoplatform for Combined Chemoâ€Photodynamic Therapy in Hypoxic Cancer. Advanced Functional Materials, 2018, 28, 1706375.	7.8	203
53	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.	4.0	21
54	Enhanced visible-light-driven photocatalytic sterilization of tungsten trioxide by surface-engineering oxygen vacancy and carbon matrix. Chemical Engineering Journal, 2018, 348, 292-300.	6.6	66

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55	ssDNA-tailorable oxidase-mimicking activity of spinel MnCo2O4 for sensitive biomolecular detection in food sample. Sensors and Actuators B: Chemical, 2018, 269, 79-87.	4.0	75
56	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.	1.9	26
57	Fluorometric determination of dopamine by using molybdenum disulfide quantum dots. Mikrochimica Acta, 2018, 185, 234.	2.5	50
58	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.	4.0	33
59	Mechanism insight into rapid photocatalytic disinfection of Salmonella based on vanadate QDs-interspersed g-C3N4 heterostructures. Applied Catalysis B: Environmental, 2018, 225, 228-237.	10.8	165
60	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. Mikrochimica Acta, 2018, 185, 7.	2.5	96
61	Internally extended growth of coreâ€“shell NH₂-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.	5.2	150
62	Energy-efficient 1.67ÂV single- and 0.90 V dual-electrolyte based overall water-electrolysis devices enabled by a ZIF-L derived acidâ€“base bifunctional cobalt phosphide nanoarray. Journal of Materials Chemistry A, 2018, 6, 24277-24284.	5.2	51
63	Bioinspired foam with large 3D macropores for efficient solar steam generation. Journal of Materials Chemistry A, 2018, 6, 16220-16227.	5.2	81
64	An improved clenbuterol detection by immunochromatographic assay with bacteria@Au composite as signal amplifier. Food Chemistry, 2018, 262, 48-55.	4.2	49
65	Antibiotic-loaded MoS₂nanosheets to combat bacterial resistance via biofilm inhibition. Nanotechnology, 2017, 28, 225101.	1.3	34
66	Au Promoted Nickelâ€“Iron Layered Double Hydroxide Nanoarrays: A Modular Catalyst Enabling High-Performance Oxygen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 19807-19814.	4.0	101
67	Interface engineering of metal organic framework on graphene oxide with enhanced adsorption capacity for organophosphorus pesticide. Chemical Engineering Journal, 2017, 313, 19-26.	6.6	190
68	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.	3.2	60
69	In-Situ Fixation of All-Inorganic Moâ€“Feâ€“S Clusters for the Highly Selective Removal of Lead(II). ACS Applied Materials & Interfaces, 2017, 9, 32720-32726.	4.0	65
70	Facet-selective response of trigger molecule to CeO2 {1 1 0} for up-regulating oxidase-like activity. Chemical Engineering Journal, 2017, 330, 746-752.	6.6	69
71	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.	2.5	10
72	Encapsulation of the flavonoid quercetin with chitosan-coated nano-liposomes. LWT - Food Science and Technology, 2017, 85, 37-44.	2.5	141

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73	One-pot synthesis of NiFe2O4 integrated with EDTA-derived carbon dots for enhanced removal of tetracycline. Chemical Engineering Journal, 2017, 310, 187-196.	6.6	92
74	Versatile molybdenum disulfide based antibacterial composites for in vitro enhanced sterilization and in vivo focal infection therapy. Nanoscale, 2016, 8, 11642-11648.	2.8	117
75	Enhanced Exfoliation Effect of Solid Auxiliary Agent On the Synthesis of Biofunctionalized MoS₂Using Grindstone Chemistry. Particle and Particle Systems Characterization, 2016, 33, 825-832.	1.2	24
76	pH-Assisted surface functionalization of selenium nanoparticles with curcumin to achieve enhanced cancer chemopreventive activity. RSC Advances, 2016, 6, 72213-72223.	1.7	14
77	One-pot synthesis of multifunctional magnetic ferriteâ€“MoS₂â€“carbon dot nanohybrid adsorbent for efficient Pb(<scp>ii</scp>) removal. Journal of Materials Chemistry A, 2016, 4, 3893-3900.	5.2	205
78	Electrochemically co-reduced 3D GO-C 60 nanoassembly as an efficient nanocatalyst for electrochemical detection of bisphenol S. Electrochimica Acta, 2016, 188, 85-90.	2.6	33
79	Nickel sulfide microsphere film on Ni foam as an efficient bifunctional electrocatalyst for overall water splitting. Chemical Communications, 2016, 52, 1486-1489.	2.2	499
80	The inhibitory effect of selenium nanoparticles on protein glycationin vitro. Nanotechnology, 2015, 26, 145703.	1.3	33
81	Colorimetric and visual determination of total nereistoxin-related insecticides by exploiting a nereistoxin-driven aggregation of gold nanoparticles. Mikrochimica Acta, 2015, 182, 401-408.	2.5	25
82	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.	1.3	8
83	A one-step approach to the large-scale synthesis of functionalized MoS₂nanosheets by ionic liquid assisted grinding. Nanoscale, 2015, 7, 10210-10217.	2.8	115
84	DNA-mediated gold nanoparticle signal transducers for combinatorial logic operations and heavy metal ions sensing. Biosensors and Bioelectronics, 2015, 72, 218-224.	5.3	37
85	Facile colorimetric method for simple and rapid detection of endotoxin based on counterion-mediated gold nanorods aggregation. Biosensors and Bioelectronics, 2014, 55, 242-248.	5.3	31
86	â€œPullingâ€•Ï€-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.	1.7	5
87	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.	2.6	53