

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
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88
all docs

88
docs citations

88
times ranked

6753
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.	2.2	499
2	One-pot synthesis of multifunctional magnetic ferrite@MoS ₂ -carbon dot nanohybrid adsorbent for efficient Pb(II) removal. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3893-3900.	5.2	205
3	Oxygen-Generating MnO ₂ Nanodots-Anchored Versatile Nanoplatfor for Combined Chemo-Photodynamic Therapy in Hypoxic Cancer. <i>Advanced Functional Materials</i> , 2018, 28, 1706375.	7.8	203
4	Interface engineering of metal organic framework on graphene oxide with enhanced adsorption capacity for organophosphorus pesticide. <i>Chemical Engineering Journal</i> , 2017, 313, 19-26.	6.6	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. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4346-4353.	5.2	181
6	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.	10.8	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5011-5020.	3.2	164
8	Internally extended growth of core-shell NH ₂ -MIL-101(Al)@ZIF-8 nanoflowers for the simultaneous detection and removal of Cu(II). <i>Journal of Materials Chemistry A</i> , 2018, 6, 21029-21038.	5.2	150
9	Encapsulation of the flavonoid quercetin with chitosan-coated nano-liposomes. <i>LWT - Food Science and Technology</i> , 2017, 85, 37-44.	2.5	141
10	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.	1.9	128
11	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.	5.2	118
12	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. <i>Inorganic Chemistry</i> , 2019, 58, 1638-1646.	1.9	118
13	Versatile molybdenum disulfide based antibacterial composites for in vitro enhanced sterilization and in vivo focal infection therapy. <i>Nanoscale</i> , 2016, 8, 11642-11648.	2.8	117
14	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.	2.8	115
15	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.	4.0	101
16	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. <i>Mikrochimica Acta</i> , 2018, 185, 7.	2.5	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.	6.6	92
18	Mixed-Valence Ce-BPyDC Metal-Organic Framework with Dual Enzyme-like Activities for Colorimetric Biosensing. <i>Inorganic Chemistry</i> , 2019, 58, 11382-11388.	1.9	89

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19	Bioinspired foam with large 3D macropores for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16220-16227.	5.2	81
20	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.	4.0	75
21	The highly efficient elimination of intracellular bacteria via a metal organic framework (MOF)-based three-in-one delivery system. <i>Nanoscale</i> , 2019, 11, 9468-9477.	2.8	71
22	Patulin removal from apple juice using a novel cysteine-functionalized metal-organic framework adsorbent. <i>Food Chemistry</i> , 2019, 270, 1-9.	4.2	70
23	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.	6.6	69
24	One-pot bottom-up fabrication of a 2D/2D heterojuncted nanozyme towards optimized peroxidase-like activity for sulfide ions sensing. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127565.	4.0	69
25	Surface engineering of hierarchical Ni(OH) ₂ nanosheet@nanowire configuration toward superior urea electrolysis. <i>Electrochimica Acta</i> , 2018, 268, 211-217.	2.6	67
26	Nanozyme amplification mediated on-demand multiplex lateral flow immunoassay with dual-readout and broadened detection range. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112610.	5.3	67
27	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.	6.6	66
28	In-Situ Fixation of All-Inorganic Mo-Fe-S Clusters for the Highly Selective Removal of Lead(II). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32720-32726.	4.0	65
29	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.	6.6	61
30	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.	3.2	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. <i>Food Chemistry</i> , 2018, 257, 155-162.	4.2	57
32	Polydopamine nanospheres as high-affinity signal tag towards lateral flow immunoassay for sensitive furazolidone detection. <i>Food Chemistry</i> , 2020, 315, 126310.	4.2	54
33	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.	2.6	53
34	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.	5.2	51
35	Enhanced functional properties of chitosan films incorporated with curcumin-loaded hollow graphitic carbon nitride nanoparticles for bananas preservation. <i>Food Chemistry</i> , 2022, 366, 130539.	4.2	51
36	Fluorometric determination of dopamine by using molybdenum disulfide quantum dots. <i>Mikrochimica Acta</i> , 2018, 185, 234.	2.5	50

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37	An improved clenbuterol detection by immunochromatographic assay with bacteria@Au composite as signal amplifier. <i>Food Chemistry</i> , 2018, 262, 48-55.	4.2	49
38	Highly sensitive and selective colorimetric detection of glutathione via enhanced Fenton-like reaction of magnetic metal organic framework. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 95-101.	4.0	46
39	Ionic silver-infused peroxidase-like metal-organic frameworks as versatile "antibiotic" for enhanced bacterial elimination. <i>Nanoscale</i> , 2020, 12, 16330-16338.	2.8	45
40	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.	2.9	44
41	A photothermal and self-induced Fenton dual-modal antibacterial platform for synergistic enhanced bacterial elimination. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120315.	10.8	43
42	Applicability of biological dye tracer in strip biosensor for ultrasensitive detection of pathogenic bacteria. <i>Food Chemistry</i> , 2019, 274, 816-821.	4.2	42
43	Luminescent metal-organic frameworks (LMOFs): An emerging sensing platform for food quality and safety control. <i>Trends in Food Science and Technology</i> , 2021, 111, 716-730.	7.8	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 Hg ²⁺ . <i>Nano Research</i> , 2021, 14, 1523-1532.	5.8	38
45	Photothermal-boosted effect of binary Cu Fe bimetallic magnetic MOF heterojunction for high-performance photo-Fenton degradation of organic pollutants. <i>Science of the Total Environment</i> , 2021, 795, 148883.	3.9	38
46	DNA-mediated gold nanoparticle signal transducers for combinatorial logic operations and heavy metal ions sensing. <i>Biosensors and Bioelectronics</i> , 2015, 72, 218-224.	5.3	37
47	In Situ Cascade Derivation toward a Hierarchical Layered Double Hydroxide Magnetic Absorbent for High-Performance Protein Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4966-4974.	3.2	37
48	Copper-Sensitized "Turn On" Peroxidase-Like Activity of M ₄ MO ₄ (M = Co, Ni) Flowers for Selective Detection of Aquatic Copper Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12568-12576.	3.2	36
49	Dextran-stabilized Fe-Mn bimetallic oxidase-like nanozyme for total antioxidant capacity assay of fruit and vegetable food. <i>Food Chemistry</i> , 2022, 371, 131115.	4.2	36
50	Antibiotic-loaded MoS ₂ nanosheets to combat bacterial resistance via biofilm inhibition. <i>Nanotechnology</i> , 2017, 28, 225101.	1.3	34
51	Chemical-staining based lateral flow immunoassay: A nanomaterials-free and ultra-simple tool for a small molecule detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 427-432.	4.0	34
52	The inhibitory effect of selenium nanoparticles on protein glycation <i>in vitro</i> . <i>Nanotechnology</i> , 2015, 26, 145703.	1.3	33
53	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.	2.6	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. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 416-423.	4.0	33

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55	Visible light responsive, self-activated bionanocomposite films with sustained antimicrobial activity for food packaging. <i>Food Chemistry</i> , 2021, 362, 130201.	4.2	33
56	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.	2.6	32
57	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.	5.3	31
58	Highly specific and sensitive determination of propyl gallate in food by a novel fluorescence sensor. <i>Food Chemistry</i> , 2018, 256, 45-52.	4.2	31
59	Mussel-inspired Fe-based Tannic acid Nanozyme: A renewable bioresource-derived high-affinity signal tag for dual-readout multiplex lateral flow immunoassay. <i>Chemical Engineering Journal</i> , 2022, 446, 137382.	6.6	29
60	An advanced and universal method to high-efficiently deproteinize plant polysaccharides by dual-functional tannic acid-Fe(III) complex. <i>Carbohydrate Polymers</i> , 2019, 226, 115283.	5.1	27
61	Rapid and selective fluorometric determination of tannic acid using MoO ₃ -x quantum dots. <i>Mikrochimica Acta</i> , 2019, 186, 247.	2.5	27
62	Highly sensitive detection of a small molecule by a paired labels recognition system based lateral flow assay. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3161-3170.	1.9	26
63	Nanostructured morphology control and phase transition of zeolitic imidazolate frameworks as an ultra-high performance adsorbent for water purification. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2667-2674.	3.0	26
64	Missing-linker engineering of Eu (III)-doped UiO-MOF for enhanced detection of heavy metal ions. <i>Chemical Engineering Journal</i> , 2022, 431, 134050.	6.6	26
65	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.	2.5	25
66	Oxidase-like Fe-Mn bimetallic nanozymes for colorimetric detection of ascorbic acid in kiwi fruit. <i>LWT - Food Science and Technology</i> , 2022, 154, 112821.	2.5	25
67	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.	1.2	24
68	Functionalized natural melanin nanoparticle mimics natural peroxidase for total antioxidant capacity determination. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131541.	4.0	24
69	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.	4.0	21
70	Acid-Induced Self-Catalyzing Platform Based on Dextran-Coated Copper Peroxide Nanoaggregates for Biofilm Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29269-29280.	4.0	21
71	Biomimetic cell model for fluorometric and smartphone colorimetric dual-signal readout detection of bacterial toxin. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127956.	4.0	20
72	Advanced konjac glucomannan-based films in food packaging: Classification, preparation, formation mechanism and function. <i>LWT - Food Science and Technology</i> , 2021, 152, 112338.	2.5	19

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73	A "sense-and-treat" hydrogel for rapid diagnose and photothermal therapy of bacterial infection. <i>Chemical Engineering Journal</i> , 2022, 443, 136437.	6.6	18
74	pH-Assisted surface functionalization of selenium nanoparticles with curcumin to achieve enhanced cancer chemopreventive activity. <i>RSC Advances</i> , 2016, 6, 72213-72223.	1.7	14
75	Natural Sugar: A Green Assistance To Efficiently Exfoliate Inorganic Layered Nanomaterials. <i>Inorganic Chemistry</i> , 2018, 57, 5560-5566.	1.9	14
76	Inhibition of the double-edged effect of curcumin on Maillard reaction in a milk model system by a nanocapsule strategy. <i>LWT - Food Science and Technology</i> , 2017, 84, 643-649.	2.5	10
77	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.	3.0	9
78	Natural Products Self-Assembled Nanozyme for Cascade Detection of Glucose and Bacterial Viability in Food. <i>Foods</i> , 2021, 10, 2596.	1.9	9
79	Nanozymes for foodborne microbial contaminants detection: Mechanisms, recent advances, and challenges. <i>Food Control</i> , 2022, 141, 109165.	2.8	9
80	Development of a Detection Kit Based on G-Quadruplex DNAzyme for Detection of Lead(II) Ion in Food Samples. <i>Food Analytical Methods</i> , 2015, 8, 1133-1140.	1.3	8
81	<i>Gentiana straminea</i> Maxim. polysaccharide decolorized via high-throughput graphene-based column and its anti-inflammatory activity. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1727-1733.	3.6	8
82	Emergence of dyestuff chemistry-encoded signal tracers in immunochromatographic assays: Fundamentals and recent food applications. <i>Trends in Food Science and Technology</i> , 2022, 127, 335-351.	7.8	8
83	Tetrathiomolybdate@ZIFs nanocrystal clusters: A novel modular and controllable catalyst for photocatalytic application. <i>Materials and Design</i> , 2019, 182, 108042.	3.3	7
84	A sustainable and nondestructive method to high-throughput decolor <i>Lycium barbarum</i> L. polysaccharides by graphene-based nano-decoloration. <i>Food Chemistry</i> , 2021, 338, 127749.	4.2	7
85	Insights into high-efficient removal of tetracycline by a codoped mesoporous carbon adsorbent. <i>Chinese Journal of Chemical Engineering</i> , 2022, 44, 148-156.	1.7	6
86	"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.	1.7	5
87	<i>Lycium Barbarum</i> Polysaccharide-Iron (III) Chelate as Peroxidase Mimics for Total Antioxidant Capacity Assay of Fruit and Vegetable Food. <i>Foods</i> , 2021, 10, 2800.	1.9	4