Hao Zhou

List of Publications by Year
in descending order

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114 papers	2,539 citations	218677 26 h-index	265206 42 g-index
114 all docs	114 docs citations	114 times ranked	2893 citing authors

#	Article	IF	Citations
1	Functional long circulating single walled carbon nanotubes for fluorescent/photoacoustic imaging-guided enhanced phototherapy. Biomaterials, 2016, 103, 219-228.	11.4	142
2	Facile and green synthetic strategy of birnessite-type MnO2 with high efficiency for airborne benzene removal at low temperatures. Applied Catalysis B: Environmental, 2019, 245, 569-582.	20.2	140
3	Combined effect of polystyrene microplastics and dibutyl phthalate on the microalgae Chlorella pyrenoidosa. Environmental Pollution, 2020, 257, 113604.	7.5	112
4	Biosynthesis of selenium nanoparticles mediated by fungus Mariannaea sp. HJ and their characterization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 571, 9-16.	4.7	87
5	Aerobic decolorization and degradation of Acid Red B by a newly isolated Pichia sp. TCL. Journal of Hazardous Materials, 2012, 223-224, 31-38.	12.4	66
6	Cu2+ activated persulfate for sulfamethazine degradation. Chemosphere, 2020, 257, 127294.	8.2	65
7	Combined effect of polystyrene plastics and triphenyltin chloride on the green algae Chlorella pyrenoidosa. Environmental Science and Pollution Research, 2019, 26, 15011-15018.	5.3	61
8	Manganese-oxidizing microbes and biogenic manganese oxides: characterization, Mn(II) oxidation mechanism and environmental relevance. Reviews in Environmental Science and Biotechnology, 2020, 19, 489-507.	8.1	53
9	Coupling the phenolic oxidation capacities of a bacterial consortium and in situ-generated manganese oxides in a moving bed biofilm reactor (MBBR). Water Research, 2019, 166, 115047.	11.3	51
10	Superoxide radical mediated Mn(III) formation is the key process in the activation of peroxymonosulfate (PMS) by Mn-incorporated bacterial-derived biochar. Journal of Hazardous Materials, 2022, 431, 128549.	12.4	51
11	Efficient peroxymonosulfate (PMS) activation by visible-light-driven formation of polymorphic amorphous manganese oxides. Journal of Hazardous Materials, 2022, 427, 127938.	12.4	49
12	Tuning the interlayer cations of birnessite-type MnO₂ to enhance its oxidation ability for gaseous benzene with water resistance. Catalysis Science and Technology, 2018, 8, 5344-5358.	4.1	48
13	Performance and microbial community analysis of bioaugmented activated sludge for nitrogen-containing organic pollutants removal. Journal of Environmental Sciences, 2021, 101, 373-381.	6.1	46
14	Acclimation of a marine microbial consortium for efficient Mn(II) oxidation and manganese containing particle production. Journal of Hazardous Materials, 2016, 304, 434-440.	12.4	41
15	Functionalization of amino terminated carbon nanotubes with isocyanates for magnetic solid phase extraction of sulfonamides from milk and their subsequent determination by liquid chromatography-high resolution mass spectrometry. Food Chemistry, 2019, 289, 701-707.	8.2	41
16	Characterization of Selenite Reduction by Lysinibacillus sp. ZYM-1 and Photocatalytic Performance of Biogenic Selenium Nanospheres. ACS Sustainable Chemistry and Engineering, 2017, 5, 2535-2543.	6.7	40
17	Acute and chronic combined effect of polystyrene microplastics and dibutyl phthalate on the marine copepod Tigriopus japonicus. Chemosphere, 2020, 261, 127711.	8.2	39
18	Catalytic performance and periodate activation mechanism of anaerobic sewage sludge-derived biochar. Journal of Hazardous Materials, 2022, 424, 127692.	12.4	39

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19	Phenol removal performance and microbial community shift during pH shock in a moving bed biofilm reactor (MBBR). Journal of Hazardous Materials, 2018, 351, 71-79.	12.4	38
20	Indigo biosynthesis by Comamonas sp. MQ. Biotechnology Letters, 2012, 34, 353-357.	2.2	35
21	Self-assembly of lipase hybrid nanoflowers with bifunctional Ca2+ for improved activity and stability. Enzyme and Microbial Technology, 2020, 132, 109408.	3.2	34
22	Bacteria-Mediated Ultrathin Bi₂Se₃ Nanosheets Fabrication and Their Application in Photothermal Cancer Therapy. ACS Sustainable Chemistry and Engineering, 2018, 6, 4863-4870.	6.7	32
23	The effect of polystyrene plastics on the toxicity of triphenyltin to the marine diatom Skeletonema costatumâ€"influence of plastic particle size. Environmental Science and Pollution Research, 2019, 26, 25445-25451.	5.3	32
24	Comparison of rhizosphere bacterial communities of reed and Suaeda in Shuangtaizi River Estuary, Northeast China. Marine Pollution Bulletin, 2019, 140, 171-178.	5.0	31
25	Samarium doping boosts catalytic oxidation of airborne benzene over todorokite-type MnO2. Applied Surface Science, 2020, 500, 144043.	6.1	31
26	Electrochemical sensor for determination of bisphenol A based on MOF-reduced graphene oxide composites coupled with cetyltrimethylammonium bromide signal amplification. Ionics, 2020, 26, 3135-3146.	2.4	31
27	CD47-targeted bismuth selenide nanoparticles actualize improved photothermal therapy by increasing macrophage phagocytosis of cancer cells. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110546.	5.0	28
28	Versatile biomimetic cantharidin-tellurium nanoparticles enhance photothermal therapy by inhibiting the heat shock response for combined tumor therapy. Acta Biomaterialia, 2020, 110, 208-220.	8.3	28
29	Biosynthesis of gold nanoparticles using fungus Trichoderma sp. WLâ€Go and their catalysis in degradation of aromatic pollutants. IET Nanobiotechnology, 2019, 13, 12-17.	3.8	27
30	Tin-Modified É‘-MnO2 catalyst with high performance for benzene Oxidation, ozone decomposition and particulate matter filtration. Chemical Engineering Journal, 2022, 427, 132075.	12.7	27
31	Characterization of a Novel Phenol Hydroxylase in Indoles Biotranformation from a Strain Arthrobacter sp. W1. PLoS ONE, 2012, 7, e44313.	2.5	25
32	Optimization of indigo production by a newly isolated Pseudomonas sp. QM. Journal of Basic Microbiology, 2012, 52, 687-694.	3.3	25
33	Biotransformation of indole by whole cells of recombinant biphenyl dioxygenase and biphenyl-2,3-dihydrodiol-2,3-dehydrogenase. Biochemical Engineering Journal, 2013, 72, 54-60.	3.6	25
34	Synthesis of quaternary phosphonium N-chloramine biocides for antimicrobial applications. RSC Advances, 2017, 7, 13244-13249.	3.6	25
35	Cloning and expression of naphthalene dioxygenase genes from Comamonas sp. MQ for indigoids production. Process Biochemistry, 2013, 48, 581-587.	3.7	24
36	Exploring NAGâ€thiazoline and its derivatives as inhibitors of chitinolytic Î²â€acetylglucosaminidases. FEBS Letters, 2015, 589, 110-116.	2.8	24

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37	Synthesis of pyridinium N-chloramines for antibacterial applications. Tetrahedron Letters, 2017, 58, 321-325.	1.4	24
38	Seasonal variations of soil bacterial communities in Suaeda wetland of Shuangtaizi River estuary, Northeast China. Journal of Environmental Sciences, 2020, 97, 45-53.	6.1	24
39	Synergy of Lithium, Cobalt, and Oxygen Vacancies in Lithium Cobalt Oxide for Airborne Benzene Oxidation: A Concept of Reusing Electronic Wastes for Air Pollutant Removal. ACS Sustainable Chemistry and Engineering, 2019, 7, 5072-5081.	6.7	23
40	Understanding the pH-dependent immobilization efficacy of feruloyl esterase-C on mesoporous silica and its structureâ€“activity changes. Journal of Molecular Catalysis B: Enzymatic, 2013, 93, 65-72.	1.8	21
41	Study of the binding mechanism between aptamer GO18-T-d and gonyautoxin 1/4 by molecular simulation. Physical Chemistry Chemical Physics, 2016, 18, 23458-23461.	2.8	20
42	Photoluminescent nanosensors capped with quantum dots for high-throughput determination of trace contaminants: Strategies for enhancing analytical performance. TrAC - Trends in Analytical Chemistry, 2016, 78, 36-47.	11.4	20
43	Sensitive electrochemical detection of tetrabromobisphenol A based on poly(diallyldimethylammonium chloride) modified graphitic carbon nitride-ionic liquid doped carbon paste electrode. Electrochimica Acta, 2017, 254, 214-222.	5.2	20
44	Bioremediation of nitrogenâ€containing organic pollutants using phenolâ€stimulated activated sludge: performance and microbial community analysis. Journal of Chemical Technology and Biotechnology, 2018, 93, 3199-3207.	3.2	20
45	Effects of Different Nitrogen Sources and Ratios to Carbon on Larval Development and Bioconversion Efficiency in Food Waste Treatment by Black Soldier Fly Larvae (Hermetia illucens). Insects, 2021, 12, 507.	2.2	20
46	Production of Indirubin from Tryptophan by Recombinant Escherichia coli Containing Naphthalene Dioxygenase Genes from Comamonas sp. MQ. Applied Biochemistry and Biotechnology, 2014, 172, 3194-3206.	2.9	19
47	Different behaviors of birnessite-type MnO2 modified by Ce and Mo for removing carcinogenic airborne benzene. Materials Chemistry and Physics, 2019, 221, 457-466.	4.0	19
48	Effect of Polystyrene Microplastics of Different Sizes to Escherichia coli and Bacillus cereus. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 626-632.	2.7	19
49	A sensitive enzyme biosensor for catecholics detection via the inner filter effect on fluorescence of CdTe quantum dots. Sensors and Actuators B: Chemical, 2012, 173, 477-482.	7.8	18
50	Multiplex On-Bead Isotope Dimethyl Labeling Coupled with Liquid Chromatographyâ€“High-Resolution Mass Spectrometry for Quantitative Analysis of Sulfonamides in Estuarine Ice. Analytical Chemistry, 2018, 90, 12172-12179.	6.5	18
51	Assembly of fungal mycelium-carbon nanotube composites and their application in pyrene removal. Journal of Hazardous Materials, 2021, 415, 125743.	12.4	18
52	Synergy of the successive modification of cryptomelane MnO2 by potassium insertion and nitrogen doping for catalytic formaldehyde oxidation. Chemical Engineering Journal, 2022, 431, 133928.	12.7	18
53	Catalytic performance and molecular dynamic simulation of immobilized CC bond hydrolase based on carbon nanotube matrix. Colloids and Surfaces B: Biointerfaces, 2014, 116, 365-371.	5.0	17
54	Characterization of a novel cometabolic degradation carbazole pathway by a phenol-cultivated Arthrobacter sp. W1. Bioresource Technology, 2015, 193, 281-287.	9.6	17

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55	Synthesis of novel pyridinium <scp>N</scp>â€chloramine precursors and its antimicrobial application on cotton fabrics. Journal of Applied Polymer Science, 2017, 134, 45323.	2.6	17
56	One-pot synthesis of Ag-H3PW12O40-LiCoO2 composites for thermal oxidation of airborne benzene. Chemical Engineering Journal, 2019, 375, 121956.	12.7	16
57	Complete Genome Sequence of Bacillus cereus CC-1, A Novel Marine Selenate/Selenite Reducing Bacterium Producing Metallic Selenides Nanomaterials. Current Microbiology, 2019, 76, 78-85.	2.2	16
58	Biodegradation characteristics and genomic functional analysis of indoleâ€degrading bacterial strain Acinetobacter sp. JW. Journal of Chemical Technology and Biotechnology, 2019, 94, 1114-1122.	3.2	16
59	An induction current method for determining the critical micelle concentration and the polarity of surfactants. Colloid and Polymer Science, 2015, 293, 1525-1534.	2.1	15
60	Concentration-dependent effects of carbon nanotubes on growth and biphenyl degradation of Dyella ginsengisoli LA-4. Environmental Science and Pollution Research, 2016, 23, 2864-2872.	5.3	15
61	Genome Sequence of Dyella ginsengisoli Strain LA-4, an Efficient Degrader of Aromatic Compounds. Genome Announcements, 2013, 1, .	0.8	14
62	Bioremediation of petroleum hydrocarbons by alkaliâ€“saltâ€tolerant microbial consortia and their community profiles. Journal of Chemical Technology and Biotechnology, 2021, 96, 809-817.	3.2	14
63	Precursor N-cadherin mediates glial cell line-derived neurotrophic factor-promoted human malignant glioma. Oncotarget, 2017, 8, 24902-24914.	1.8	14
64	Morphology-tunable tellurium nanomaterials produced by the tellurite-reducing bacterium Lysinibacillus sp. ZYM-1. Environmental Science and Pollution Research, 2018, 25, 20756-20768.	5.3	13
65	Comparative characterization and functional genomic analysis of two Comamonas sp. strains for biodegradation of quinoline. Journal of Chemical Technology and Biotechnology, 2020, 95, 2017-2026.	3.2	13
66	The key role of a non-active-site residue Met148 on the catalytic efficiency of meta-cleavage product hydrolase BphD. Applied Microbiology and Biotechnology, 2013, 97, 10399-10411.	3.6	12
67	Synergetic interaction of lithium cobalt oxide with sulfite to accelerate the degradation of organic aqueous pollutants. Materials Chemistry and Physics, 2020, 249, 123123.	4.0	12
68	Toxicity of tire wear particles and the leachates to microorganisms in marine sediments. Environmental Pollution, 2022, 309, 119744.	7.5	12
69	Sensitive and Selective Electrochemical Sensor Based on Molecularly Imprinted Polypyrrole Hybrid Nanocomposites for Tetrabromobisphenol A Detection. Analytical Letters, 2019, 52, 2506-2523.	1.8	11
70	Promiscuous esterase activities of the Câ€“C hydrolases from Dyella ginsengisoli. Biotechnology Letters, 2012, 34, 1107-1113.	2.2	10
71	Effect of nano zinc oxide on the acute and reproductive toxicity of cadmium and lead to the marine copepod Tigriopus japonicus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 222, 118-124.	2.6	10
72	Revisiting the preparation of titanium dioxide: aerosol-assisted production of photocatalyst with higher catalytic activity than P25. Journal of Materials Science, 2020, 55, 565-576.	3.7	10

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73	Determination of estrogens by solid-phase quadruplex stable isotope dansylation coupled with liquid chromatography-high resolution mass spectrometry in environmental samples. Talanta, 2020, 219, 121272.	5.5	10
74	Efficient purification of selenoprotein thioredoxin reductase 1 by using chelating reagents to protect the affinity resins and rescue the enzyme activities. Process Biochemistry, 2021, 101, 256-265.	3.7	10
75	Cantharidin-loaded biomimetic MOF nanoparticle cascade to enhance the Fenton reaction based on amplified photothermal therapy. Biomaterials Science, 2021, 9, 7862-7875.	5.4	10
76	Characterization of a novel meta-fission product hydrolase from Dyella ginsengisoli LA-4. Process Biochemistry, 2010, 45, 94-100.	3.7	9
77	Genome Sequence of a Novel Indigo-Producing Strain, Pseudomonas monteilii QM. Journal of Bacteriology, 2012, 194, 4459-4460.	2.2	9
78	Catalytic properties of 2,3-dihydroxybiphenyl 1,2-dioxygenase from Dyella Ginsengisoli LA-4 immobilized on mesoporous silica SBA-15. Journal of Molecular Catalysis B: Enzymatic, 2014, 99, 136-142.	1.8	9
79	Interface modulation of bacteriogenic Ag/AgCl nanoparticles by boosting the catalytic activity for reduction reactions using Co²⁺ ions. Chemical Communications, 2017, 53, 4946-4949.	4.1	9
80	Synthesis of zwitterionic N-chlorohydantoins for antibacterial applications. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3665-3669.	2.2	9
81	Diversity and structure of soil bacterial community in intertidal zone of Daliao River estuary, Northeast China. Marine Pollution Bulletin, 2021, 163, 111965.	5.0	9
82	Optimization of 2,3-dihydroxybiphenyl 1,2-dioxygenase expression and its application for biosensor. Bioresource Technology, 2011, 102, 10553-10560.	9.6	8
83	Development of a detection method based on dielectric spectroscopy for real-time monitoring of meta-cresol contamination in beach-sand. Sensors and Actuators A: Physical, 2017, 268, 16-26.	4.1	8
84	Solid phase â€œon-situâ€•quadraplex isotope dimethyl labeling for the analysis of biogenic amines in beers by liquid chromatography-high resolution mass spectrometry. Journal of Chromatography A, 2020, 1613, 460712.	3.7	8
85	Ultra-light 3D MnO2-agar network with high and longevous performance for catalytic formaldehyde oxidation. Science of the Total Environment, 2022, 830, 154818.	8.0	8
86	Nitroreductase activity of ferredoxin reductase BphA4 from Dyella ginsengisoli LAâ”4 by catalytic and structural properties analysis. Applied Microbiology and Biotechnology, 2011, 89, 655-663.	3.6	7
87	Molecularâ€Simulationâ€Assisted Immobilization and Catalytic Performance of Cï£¿C Hydrolase MfphA on SBAâ€15 Mesoporous Silica. ChemPlusChem, 2012, 77, 293-300.	2.8	7
88	Catalytic performance and stability of C-C bond hydrolase BphD immobilized onto single-wall carbon nanotubes. Chinese Journal of Catalysis, 2013, 34, 723-733.	14.0	7
89	Activated sludge microbial community responses to single-walled carbon nanotubes: community structure does matter. Water Science and Technology, 2015, 71, 1235-1240.	2.5	7
90	Synthesis, structures, fluorescence studies and cytotoxicity of a new Manganese(II) complex. Inorganic and Nano-Metal Chemistry, 2017, 47, 1509-1519.	1.6	7

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91	Synergistic multiple active species driven fast estrone oxidation by Î´-MnO2 in the existence of methanol. Science of the Total Environment, 2021, 761, 143201.	8.0	7
92	Performance and bacterial community profiles of sequencing batch reactors during long-term exposure to polyethylene terephthalate and polyethylene microplastics. Bioresource Technology, 2022, 347, 126393.	9.6	7
93	Difunctional biogenic Au nanoparticles for colorimetric detection and removal of Hg²⁺. RSC Advances, 2015, 5, 42931-42934.	3.6	6
94	Highly selective colorimetric determination of catechol based on the aggregation-induced oxidaseâ€“mimic activity decrease of Î´-MnO₂. RSC Advances, 2020, 10, 6801-6806.	3.6	6
95	Boron vacancies of mesoporous MnO2 with strong acid sites, free Mn3+ species and macropore decoration for efficiently decontaminating organic and heavy metal pollutants in black-odorous waterbodies. Applied Surface Science, 2021, 561, 150081.	6.1	6
96	Transformation of food waste to source of antimicrobial proteins by black soldier fly larvae for defense against marine Vibrio parahaemolyticus. Science of the Total Environment, 2022, 826, 154163.	8.0	6
97	Fabrication and Application of Magnetically Catalytic Imprinting Nanozymes. ChemistrySelect, 2020, 5, 8284-8288.	1.5	5
98	Biomimetic Cucurbitacin B-Polydopamine Nanoparticles for Synergistic Chemo-Photothermal Therapy of Breast Cancer. Frontiers in Bioengineering and Biotechnology, 2022, 10, 841186.	4.1	5
99	Water durability modification of cerium-manganese oxide by tin shell for efficient airborne benzene oxidation. Journal of Hazardous Materials, 2022, 436, 129207.	12.4	5
100	Manganese removal and product characteristics of a marine manganese-oxidizing bacterium Bacillus sp. FF-1. International Microbiology, 2022, 25, 701-708.	2.4	5
101	Multistep Conversion of para-Substituted Phenols by Phenol Hydroxylase and 2,3-Dihydroxybiphenyl 1,2-Dioxygenase. Applied Biochemistry and Biotechnology, 2013, 169, 2064-2075.	2.9	4
102	Tuning the substrate selectivity of meta-cleavage product hydrolase by domain swapping. Applied Microbiology and Biotechnology, 2013, 97, 5343-5350.	3.6	4
103	Genome Sequence of Sphingomonas xenophaga QYY, an Anthraquinone-Degrading Strain. Genome Announcements, 2013, 1, .	0.8	4
104	Novel N-chloramine precursors for antimicrobial application: synthesis and facile covalent immobilization on polyurethane surface based on perfluorophenyl azide (PFPA) chemistry. Canadian Journal of Chemistry, 2018, 96, 939-948.	1.1	4
105	Highly reactive bulk lattice oxygen exposed by simple water treatment of LiCoO2 for catalytic oxidation of airborne benzene. Molecular Catalysis, 2020, 492, 111003.	2.0	4
106	Determination of phenolic compounds in estuary water and sediment by solid-phase isotope dansylation coupled with liquid chromatography-high resolution mass spectrometry. Analytical Methods, 2021, 13, 1404-1411.	2.7	4
107	Isolation, characterization and docking studies of 2,3-dihydroxybiphenyl 1,2-dioxygenase from an activated sludge metagenome. Biotechnology Letters, 2012, 34, 117-123.	2.2	3
108	Draft Genome Sequence of a Selenite- and Tellurite-Reducing Marine Bacterium, Lysinibacillus sp. Strain ZYM-1. Genome Announcements, 2016, 4, .	0.8	3

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109	In situ nitrogen doping of lithium cobalt oxide via rhodamine B degradation offers the reused material a better activity. Applied Surface Science, 2020, 500, 143972.	6.1	3
110	Complete genome sequence of a tellurate reducing bacteria Sporosarcina sp. Te-1 isolated from Bohai Sea. Marine Genomics, 2021, 60, 100888.	1.1	3
111	Identification and characterization of Fe3O4/peroxodisulfate advanced oxidation products from sulfameter. Journal of Environmental Sciences, 2022, 122, 227-235.	6.1	3
112	C/N-Dependent Element Bioconversion Efficiency and Antimicrobial Protein Expression in Food Waste Treatment by Black Soldier Fly Larvae. International Journal of Molecular Sciences, 2022, 23, 5036.	4.1	3
113	Hard-NaCl template-regulated LiCoO2 catalyst with enhanced activity for aqueous and gaseous organics elimination. Surfaces and Interfaces, 2021, 26, 101376.	3.0	0
114	Advance in Research on Bacterial Aromatic Extradiol Dioxygenase. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2012, 18, 873.	0.1	0