

Nengwu Zhu

List of Publications by Year in descending order

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70
papers

2,472
citations

186265

28
h-index

206112

48
g-index

70
all docs

70
docs citations

70
times ranked

3005
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and efficient reduction of chromate by novel Pd/Fe@biomass derived from <i>Enterococcus faecalis</i> . <i>Environmental Research</i> , 2022, 204, 112005.	7.5	9
2	Efficient recovery of rare earth elements from discarded NdFeB magnets by mechanical activation coupled with acid leaching. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25532-25543.	5.3	11
3	Impacts of ammonium ion on triclinic birnessites towards the transformation of As(III). <i>Environmental Pollution</i> , 2022, 298, 118815.	7.5	4
4	Effects of medical waste incineration fly ash on the promotion of heavy metal chlorination volatilization from incineration residues. <i>Journal of Hazardous Materials</i> , 2022, 425, 128037.	12.4	32
5	Insights into photocatalytic degradation of phthalate esters over MSnO ₃ perovskites (M = Mg, Ca): Experiments and density functional theory. <i>Journal of Environmental Management</i> , 2022, 307, 114511.	7.8	9
6	Effects of Extracellular Polymeric Substances and Specific Compositions on Enhancement of Copper Bioleaching Efficiency from Waste Printed Circuit Boards. <i>Sustainability</i> , 2022, 14, 2503.	3.2	2
7	Dry anaerobic digestion of ammoniated straw: Performance and microbial characteristics. <i>Bioresource Technology</i> , 2022, 351, 126952.	9.6	24
8	Sorption of Cd ²⁺ on Bone Chars with or without Hydrogen Peroxide Treatment under Various Pyrolysis Temperatures: Comparison of Mechanisms and Performance. <i>Processes</i> , 2022, 10, 618.	2.8	9
9	The heteroaggregation and deposition behavior of nanoplastics on Al ₂ O ₃ in aquatic environments. <i>Journal of Hazardous Materials</i> , 2022, 435, 128964.	12.4	15
10	A novel strategy for harmlessness and reduction of copper smelting slags by alkali disaggregation of fayalite (Fe ₂ SiO ₄) coupling with acid leaching. <i>Journal of Hazardous Materials</i> , 2021, 402, 123791.	12.4	37
11	Adsorption of lead and antimony in the presence and absence of EDTA by a new vermiculite product with potential recyclability. <i>Environmental Science and Pollution Research</i> , 2021, 28, 49112-49124.	5.3	5
12	Kinetics and mechanisms of phenolic compounds by Ferrate(VI) assisted with density functional theory. <i>Journal of Hazardous Materials</i> , 2021, 415, 125563.	12.4	24
13	Efficient peroxydisulfate activation with nZVI/CuO@BC nanocomposite derived from wastes for degradation of tetrabromobisphenol A in alkaline environment. <i>Journal of Hazardous Materials</i> , 2021, 417, 126029.	12.4	28
14	Bioleaching of indium from waste LCD panels by <i>Aspergillus niger</i> : Method optimization and mechanism analysis. <i>Science of the Total Environment</i> , 2021, 790, 148151.	8.0	21
15	Efficient separation of aluminum foil from mixed-type spent lithium-ion power batteries. <i>Journal of Environmental Management</i> , 2021, 298, 113500.	7.8	22
16	The regulatory mechanism of <i>Chryseobacterium</i> sp. resistance mediated by montmorillonite upon cadmium stress. <i>Chemosphere</i> , 2020, 240, 124851.	8.2	27
17	Induced fluorescent enhancement of protein-directed synthesized gold nanoclusters for selective and sensitive detection of flame retardants. <i>Science of the Total Environment</i> , 2020, 713, 136488.	8.0	11
18	Batch interaction of emerging tetracycline contaminant with novel phosphoric acid activated corn straw porous carbon: Adsorption rate and nature of mechanism. <i>Environmental Research</i> , 2020, 181, 108899.	7.5	91

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19	Mechanism insight into efficient peroxydisulfate activation by novel nano zero-valent iron anchored γ -Co ₃ O ₄ (nZVI/ γ -Co ₃ O ₄) composites. <i>Journal of Hazardous Materials</i> , 2020, 400, 123157.	12.4	39
20	Enhancing peroxymonosulfate activation of Fe-Al layered double hydroxide by dissolved organic matter: Performance and mechanism. <i>Water Research</i> , 2020, 185, 116246.	11.3	74
21	Leaching characteristics of heavy metals in tailings and their simultaneous immobilization with triethylenetetramine functioned montmorillonite (TETA-Mt) against simulated acid rain. <i>Environmental Pollution</i> , 2020, 266, 115236.	7.5	42
22	Adhesion of <i>Sphingomonas</i> sp. GY2B onto montmorillonite: A combination study by thermodynamics and the extended DLVO theory. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111085.	5.0	21
23	Intensification of sorption-reduction coupled gold biorecovery process through microbial surface modification: effect on gold sorption and reduction. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 38.	3.6	2
24	Promoting the photogeneration of hydrochar reactive oxygen species based on FeAl layered double hydroxide for diethyl phthalate degradation. <i>Journal of Hazardous Materials</i> , 2020, 388, 122120.	12.4	32
25	Efficient degradation of sodium diclofenac via heterogeneous Fenton reaction boosted by Pd/Fe@Fe ₃ O ₄ nanoparticles derived from bio-recovered palladium. <i>Journal of Environmental Management</i> , 2020, 260, 110072.	7.8	34
26	Bioreduction of hexavalent chromium on goethite in the presence of <i>Pseudomonas aeruginosa</i> . <i>Environmental Pollution</i> , 2020, 265, 114765.	7.5	39
27	Environmental application of MgMn-layered double oxide for simultaneous efficient removal of tetracycline and Cd pollution: Performance and mechanism. <i>Journal of Environmental Management</i> , 2019, 246, 164-173.	7.8	64
28	Synergistic deep removal of As(III) and Cd(II) by a calcined multifunctional MgZnFe-CO ₃ layered double hydroxide: Photooxidation, precipitation and adsorption. <i>Chemosphere</i> , 2019, 225, 115-125.	8.2	64
29	Bioelectricity generation by wetland plant-sediment microbial fuel cells (P-SMFC) and effects on the transformation and mobility of arsenic and heavy metals in sediment. <i>Environmental Geochemistry and Health</i> , 2019, 41, 2157-2168.	3.4	17
30	Simultaneous electricity production and antibiotics removal by microbial fuel cells. <i>Journal of Environmental Management</i> , 2018, 217, 565-572.	7.8	71
31	Efficient catalytic degradation of bisphenol A by novel FeO-vermiculite composite in photo-Fenton system: Mechanism and effect of iron oxide shell. <i>Chemosphere</i> , 2018, 208, 335-342.	8.2	23
32	Bioleaching of copper from metal concentrates of waste printed circuit boards by a newly isolated <i>Acidithiobacillus ferrooxidans</i> strain Z1. <i>Journal of Material Cycles and Waste Management</i> , 2017, 19, 247-255.	3.0	31
33	Immobilization of <i>Acidithiobacillus ferrooxidans</i> on cotton gauze for biological oxidation of ferrous ions in a batch bioreactor. <i>Biotechnology and Applied Biochemistry</i> , 2017, 64, 727-734.	3.1	3
34	FeOOH-loaded MnO ₂ nano-composite: An efficient emergency material for thallium pollution incident. <i>Journal of Environmental Management</i> , 2017, 192, 31-38.	7.8	97
35	Cr(VI) reduction and Cr(III) immobilization by resting cells of <i>Pseudomonas aeruginosa</i> CCTCC AB93066: spectroscopic, microscopic, and mass balance analysis. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5949-5963.	5.3	42
36	Synthesis and characterization of Fullerene modified ZnAlTi-LDO in photo-degradation of Bisphenol A under simulated visible light irradiation. <i>Environmental Pollution</i> , 2017, 228, 234-244.	7.5	37

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37	Amphoteric modified vermiculites as adsorbents for enhancing removal of organic pollutants: Bisphenol A and Tetrabromobisphenol A. <i>Environmental Pollution</i> , 2017, 228, 277-286.	7.5	79
38	High-efficiency Nitric Acid/PPy/AQDS Coupling Treated Bioanodes Based Microbial Fuel Cell. <i>Electroanalysis</i> , 2017, 29, 2036-2043.	2.9	1
39	Layer-by-layer assembly surface modified microbial biomass for enhancing biorecovery of secondary gold. <i>Waste Management</i> , 2017, 60, 552-560.	7.4	11
40	CoMn ₂ O ₄ -supported functionalized carbon nanotube: efficient catalyst for oxygen reduction in microbial fuel cells. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	5
41	Sorption-reduction coupled gold recovery process boosted by <i>Pycnopus sanguineus</i> biomass: Uptake pattern and performance enhancement via biomass surface modification. <i>Biotechnology Progress</i> , 2017, 33, 1314-1322.	2.6	3
42	Three-Dimensional Multi-Doped Porous Carbon/Graphene Derived from Sewage Sludge with Template-Assisted Fe-pillared Montmorillonite for Enhanced Oxygen Reduction Reaction. <i>Scientific Reports</i> , 2017, 7, 4158.	3.3	16
43	Biomass-derived heteroatoms-doped mesoporous carbon for efficient oxygen reduction in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2017, 98, 350-356.	10.1	92
44	Evaluation of the physiochemical properties and catalytic performance of mixed metal oxides-carbon nanotubes nanohybrids containing carbon nanotubes with different diameters. <i>Applied Clay Science</i> , 2017, 135, 95-102.	5.2	7
45	Bioreduction of Precious Metals by Microorganism: Efficient Gold@N-Doped Carbon Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8416-8420.	13.8	88
46	Bioreduction of Precious Metals by Microorganism: Efficient Gold@N-Doped Carbon Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2016, 128, 8556-8560.	2.0	44
47	Synergetic effect of functionalized carbon nanotubes on ZnCr mixed metal oxides for enhanced solar light-driven photocatalytic performance. <i>RSC Advances</i> , 2016, 6, 37689-37700.	3.6	21
48	Enhancing the adsorption behavior and mechanism of Sr(II) by functionalized montmorillonite with different 3-aminopropyltriethoxysilane (APTES) ratios. <i>RSC Advances</i> , 2016, 6, 83288-83295.	3.6	12
49	Biorecovery of gold as nanoparticles and its catalytic activities for p-nitrophenol degradation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7627-7638.	5.3	21
50	Enhanced degradation of phenol by <i>Sphingomonas</i> sp. GY2B with resistance towards suboptimal environment through adsorption on kaolinite. <i>Chemosphere</i> , 2016, 148, 388-394.	8.2	42
51	Enhanced photo-degradation of bisphenol a under simulated solar light irradiation by Zn-Ti mixed metal oxides loaded on graphene from aqueous media. <i>RSC Advances</i> , 2016, 6, 26495-26504.	3.6	22
52	Preparation and characterization of ZnTiO ₃ /TiO ₂ /pillared montmorillonite composite catalyst for enhanced photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2016, 42, 5253-5268.	2.7	12
53	Ecotoxicity monitoring and bioindicator screening of oil-contaminated soil during bioremediation. <i>Ecotoxicology and Environmental Safety</i> , 2016, 124, 120-128.	6.0	55
54	Sorption of Pyrene by Clay Minerals Coated with Dissolved Organic Matter (DOM) from Landfill Leachate. <i>Journal of Chemistry</i> , 2015, 2015, 1-10.	1.9	6

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55	Nickel oxide and carbon nanotube composite (NiO/CNT) as a novel cathode non-precious metal catalyst in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2015, 72, 332-339.	10.1	162
56	Highly enhanced adsorption for the removal of Hg(II) from aqueous solution by Mercaptoethylamine/Mercaptopropyltrimethoxysilane functionalized vermiculites. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 348-356.	9.4	75
57	Biosynthesis of gold nanoparticles assisted by the intracellular protein extract of <i>Pycnoporus sanguineus</i> and its catalysis in degradation of 4-nitroaniline. <i>Nanoscale Research Letters</i> , 2015, 10, 147.	5.7	73
58	Understanding the role of clay minerals in the chromium(VI) bioremoval by <i>Pseudomonas aeruginosa</i> CCTCC AB93066 under growth condition: microscopic, spectroscopic and kinetic analysis. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1765-1779.	3.6	21
59	Simultaneous heavy metals removal and municipal sewage sludge dewaterability improvement in bioleaching processes by various inoculums. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1719-1728.	3.6	8
60	Immobilization of <i>Acidithiobacillus ferrooxidans</i> on Cotton Gauze for the Bioleaching of Waste Printed Circuit Boards. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 675-688.	2.9	12
61	Isolation of <i>Acidithiobacillus ferrooxidans</i> strain Z1 and its mechanism of bioleaching copper from waste printed circuit boards. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 714-721.	3.2	45
62	Molecular Phylogenetic Diversity and Spatial Distribution of Bacterial Communities in Cooling Stage during Swine Manure Composting. <i>Asian-Australasian Journal of Animal Sciences</i> , 2015, 28, 888-895.	2.4	10
63	N ₂ O emission in short-cut simultaneous nitrification and denitrification process: dynamic emission characteristics and succession of ammonia-oxidizing bacteria. <i>Water Science and Technology</i> , 2014, 69, 2541-2547.	2.5	9
64	Fabrication and photocatalytic properties of a visible-light responsive nanohybrid based on self-assembly of carboxyl graphene and ZnAl layered double hydroxides. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5534.	10.3	70
65	Study on the adsorption of DNA on the layered double hydroxides (LDHs). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 387-393.	3.9	15
66	Successful intercalation of DNA into CTAB-modified clay minerals for gene protection. <i>Journal of Materials Science</i> , 2014, 49, 7273-7281.	3.7	12
67	Synthesis and catalytic properties of La or Ce doped hydroxy-FeAl intercalated montmorillonite used as heterogeneous photo Fenton catalysts under sunlight irradiation. <i>RSC Advances</i> , 2014, 4, 6500.	3.6	25
68	Efficient removal of cesium from aqueous solution with vermiculite of enhanced adsorption property through surface modification by ethylamine. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 295-301.	9.4	66
69	Spatial Heterogeneity of Bacteria: Evidence from Hot Composts by Culture-independent Analysis. <i>Asian-Australasian Journal of Animal Sciences</i> , 2012, 25, 1045-1054.	2.4	4
70	Bioleaching of copper from waste printed circuit boards by bacterial consortium enriched from acid mine drainage. <i>Journal of Hazardous Materials</i> , 2010, 184, 812-818.	12.4	215