

Pei Zhou

List of Publications by Year in descending order

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82
papers

2,397
citations

172457

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Exogenous Melatonin Enhances Cd Tolerance and Phytoremediation Efficiency by Ameliorating Cd-Induced Stress in Oilseed Crops: A Review. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 922-935.	5.1	16
2	Comparative cytology combined with transcriptomic and metabolomic analyses of <i>Solanum nigrum</i> L. in response to Cd toxicity. <i>Journal of Hazardous Materials</i> , 2022, 423, 127168.	12.4	69
3	When nanoparticle and microbes meet: The effect of multi-walled carbon nanotubes on microbial community and nutrient cycling in hyperaccumulator system. <i>Journal of Hazardous Materials</i> , 2022, 423, 126947.	12.4	48
4	Salicylic Acid Confers Salt Tolerance in Giant Juncao Through Modulation of Redox Homeostasis, Ionic Flux, and Bioactive Compounds: An Ionomics and Metabolomic Perspective of Induced Tolerance Responses. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1999-2019.	5.1	10
5	A sustainable approach for removing nitrate: Studying the nitrate transformation and metabolic potential under different carbon source by microorganism. <i>Journal of Cleaner Production</i> , 2022, 346, 131169.	9.3	8
6	A sustainable approach for bioremediation of secondary salinized soils: Studying remediation efficiency and soil nitrate transformation by bioaugmentation. <i>Chemosphere</i> , 2022, 300, 134580.	8.2	9
7	Two plant growth-promoting bacterial <i>Bacillus</i> strains possess different mechanisms in affecting cadmium uptake and detoxification of <i>Solanum nigrum</i> L.. <i>Chemosphere</i> , 2022, 305, 135488.	8.2	20
8	Dual-mode colorimetric determination of As(III) based on negatively-charged aptamer-mediated aggregation of positively-charged AuNPs. <i>Analytica Chimica Acta</i> , 2022, 1221, 340111.	5.4	8
9	Melatonin enhanced oilseed rape growth and mitigated Cd stress risk: A novel trial for reducing Cd accumulation by bioenergy crops. <i>Environmental Pollution</i> , 2022, 308, 119642.	7.5	14
10	Microbe-EDTA mediated approach in the phytoremediation of lead-contaminated soils using maize (<i>Zea mays</i> L.) plants. <i>International Journal of Phytoremediation</i> , 2021, 23, 1-12.	3.1	8
11	Influence of Cd toxicity on subcellular distribution, chemical forms, and physiological responses of cell wall components towards short-term Cd stress in <i>Solanum nigrum</i> . <i>Environmental Science and Pollution Research</i> , 2021, 28, 13955-13969.	5.3	29
12	<i>Streptomyces griseorubens</i> JSD-1 promotes rice straw composting efficiency in industrial-scale fermenter: Evaluation of change in physicochemical properties and microbial community. <i>Bioresource Technology</i> , 2021, 321, 124465.	9.6	34
13	Colorimetric Detection of Kanamycin Residue in Foods Based on the Aptamer-Enhanced Peroxidase-Mimicking Activity of Layered WS ₂ Nanosheets. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2884-2893.	5.2	80
14	A Facile Aptasensor for Instantaneous Determination of Cadmium Ions Based on Fluorescence Amplification Effect of MOPS on FAM-Labeled Aptamer. <i>Biosensors</i> , 2021, 11, 133.	4.7	17
15	Targeting Cd coping mechanisms for stress tolerance in <i>Brassica napus</i> under spiked-substrate system: from physiology to remediation perspective. <i>International Journal of Phytoremediation</i> , 2021, , 1-15.	3.1	1
16	Small structures with big impact: Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator <i>Solanum nigrum</i> L. under cadmium and arsenic stress. <i>Chemosphere</i> , 2021, 276, 130130.	8.2	39
17	Anti-Hyperlipidemia and Gut Microbiota Community Regulation Effects of Selenium-Rich <i>Cordyceps militaris</i> Polysaccharides on the High-Fat Diet-Fed Mice Model. <i>Foods</i> , 2021, 10, 2252.	4.3	34
18	Phytoremediation of secondary saline soil by halophytes with the enhancement of γ -polyglutamic acid. <i>Chemosphere</i> , 2021, 285, 131450.	8.2	22

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19	Label-free colorimetric assay for arsenic(III) determination based on a truncated short ssDNA and gold nanoparticles. <i>Mikrochimica Acta</i> , 2021, 188, 38.	5.0	15
20	An Electrochemical Aptasensor for Pb ²⁺ Detection Based on Metal-Organic-Framework-Derived Hybrid Carbon. <i>Biosensors</i> , 2021, 11, 1.	4.7	18
21	Genome-Wide Analysis of the UDP-Glycosyltransferase Family Reveals Its Roles in Coumarin Biosynthesis and Abiotic Stress in <i>Melilotus albus</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 10826.	4.1	18
22	Changes in soil bacterial and fungal communities in response to <i>Bacillus megaterium</i> NCT-2 inoculation in secondary salinized soil. <i>PeerJ</i> , 2021, 9, e12309.	2.0	0
23	How bacteria remediate soil nitrate for sustainable crop production. <i>Journal of Cleaner Production</i> , 2021, 328, 129600.	9.3	8
24	Combating soil salinity with combining saline agriculture and phytomanagement with salt-accumulating plants. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1085-1115.	12.8	40
25	Oligonucleotide-induced regulation of the oxidase-mimicking activity of octahedral Mn ₃ O ₄ nanoparticles for colorimetric detection of heavy metals. <i>Mikrochimica Acta</i> , 2020, 187, 99.	5.0	33
26	Microencapsulation of <i>Bacillus megaterium</i> NCT-2 and its effect on remediation of secondary salinization soil. <i>Journal of Microencapsulation</i> , 2020, 37, 134-143.	2.8	8
27	Optimization of NPK fertilization combined with phytoremediation of cadmium contaminated soil by orthogonal experiment. <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 109997.	6.0	45
28	Label-Free and Sensitive Determination of Cadmium Ions Using a Ti-Modified Co ₃ O ₄ -Based Electrochemical Aptasensor. <i>Biosensors</i> , 2020, 10, 195.	4.7	10
29	Rice straw as renewable components of horticultural growing media for purple cabbage. <i>Science of the Total Environment</i> , 2020, 747, 141274.	8.0	12
30	Medium Optimization for Spore Production of a Straw-Cellulose Degrading <i>Actinomyces</i> Strain under Solid-State Fermentation Using Response Surface Method. <i>Sustainability</i> , 2020, 12, 8893.	3.2	6
31	<i>Pennisetum giganteum</i> : An emerging salt accumulating/tolerant non-conventional crop for sustainable saline agriculture and simultaneous phytoremediation. <i>Environmental Pollution</i> , 2020, 265, 114876.	7.5	22
32	Plant growth promotion and enhanced uptake of Cd by combinatorial application of <i>Bacillus pumilus</i> and EDTA on <i>Zea mays</i> L.. <i>International Journal of Phytoremediation</i> , 2020, 22, 1372-1384.	3.1	26
33	Dynamic bacterial assembly driven by <i>Streptomyces griseorubens</i> JSD-1 inoculants correspond to composting performance in swine manure and rice straw co-composting. <i>Bioresource Technology</i> , 2020, 313, 123692.	9.6	34
34	Genomic Analysis of <i>Bacillus megaterium</i> NCT-2 Reveals Its Genetic Basis for the Bioremediation of Secondary Salinization Soil. <i>International Journal of Genomics</i> , 2020, 2020, 1-11.	1.6	11
35	Two plant growth promoting bacterial <i>Bacillus</i> strains possess different mechanisms in adsorption and resistance to cadmium. <i>Science of the Total Environment</i> , 2020, 741, 140422.	8.0	40
36	An electrochemical aptasensor for detection of lead ions using a screen-printed carbon electrode modified with Au/polypyrrole composites and toluidine blue. <i>Analytical Methods</i> , 2019, 11, 4274-4279.	2.7	34

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37	Microfluidic Device Directly Fabricated on Screen-Printed Electrodes for Ultrasensitive Electrochemical Sensing of PSA. <i>Nanoscale Research Letters</i> , 2019, 14, 71.	5.7	31
38	Oligonucleotides and pesticide regulated peroxidase catalytic activity of hemin for colorimetric detection of isocarbophos in vegetables by naked eyes. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7857-7868.	3.7	18
39	An electrochemical aptasensor based on gold@polypyrrole composites for detection of lead ions. <i>Mikrochimica Acta</i> , 2018, 185, 545.	5.0	42
40	Enhanced removal of nitrate in the maize rhizosphere by plant growth-promoting <i>Bacillus megaterium</i> NCT-2, and its colonization pattern in response to nitrate. <i>Chemosphere</i> , 2018, 208, 316-324.	8.2	18
41	Heterologous expression and biochemical characterization of assimilatory nitrate and nitrite reductase reveals adaption and potential of <i>Bacillus megaterium</i> NCT-2 in secondary salinization soil. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 1019-1028.	7.5	34
42	Nicotinamide adenine dinucleotide suppresses epileptogenesis at an early stage. <i>Scientific Reports</i> , 2017, 7, 7321.	3.3	11
43	Research and Development of a DNDC Online Model for Farmland Carbon Sequestration and GHG Emissions Mitigation in China. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1493.	2.6	13
44	The cytotoxic effect of the NOS -mediated oxidative stress in <i>MCF-7</i> cells after Pb^{2+} exposure. <i>Environmental Toxicology</i> , 2016, 31, 601-608.	4.0	3
45	A R2R3-MYB transcription factor from <i>Lablab purpureus</i> induced by drought increases tolerance to abiotic stress in <i>Arabidopsis</i> . <i>Molecular Biology Reports</i> , 2016, 43, 1089-1100.	2.3	17
46	A mini-review on functional nucleic acids-based heavy metal ion detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 353-368.	10.1	135
47	Electrochemical aptasensor for tetracycline using a screen-printed carbon electrode modified with an alginate film containing reduced graphene oxide and magnetite (Fe_3O_4) nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 723-729.	5.0	72
48	Biological pretreatment of rice straw with <i>Streptomyces griseorubens</i> JSD-1 and its optimized production of cellulase and xylanase for improved enzymatic saccharification efficiency. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 575-585.	1.9	18
49	Enhancement of Cellulase and Xylanase Production Using pH-Shift and Dissolved Oxygen Control Strategy with <i>Streptomyces griseorubens</i> JSD-1. <i>Applied Biochemistry and Biotechnology</i> , 2016, 178, 338-352.	2.9	5
50	Fluorescent detection of Hg^{2+} and Pb^{2+} using GeneFinder [®] and an integrated functional nucleic acid. <i>Biosensors and Bioelectronics</i> , 2015, 72, 95-99.	10.1	40
51	Fate and Risk Assessment of Arsenic Compounds in Soil Amended with Poultry Litter Under Aerobic and Anaerobic Circumstances. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	9
52	Preparation of a polyclonal antibody against the cadmium-DTPA complex and its application for determination of cadmium. <i>Food and Agricultural Immunology</i> , 2015, 26, 794-803.	1.4	7
53	A label-free fluorescent sensor for the detection of Pb^{2+} and Hg^{2+} . <i>Analytical Methods</i> , 2015, 7, 6260-6265.	2.7	13
54	Synthesis and Characterization of Artificial Antigens for Copper and Application for Development of an Indirect Competitive Enzyme-Linked Immunosorbent Assay. <i>Analytical Letters</i> , 2015, 48, 1411-1425.	1.8	3

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55	Determination of silver(I) ion based on the aggregation of gold nanoparticles caused by silver-specific DNA, and its effect on the fluorescence of Rhodamine B. <i>Mikrochimica Acta</i> , 2015, 182, 1411-1419.	5.0	31
56	Sensitive fluorescent assay for copper (II) determination in aqueous solution using copper-specific ssDNA and Sybr Green I. <i>Talanta</i> , 2015, 142, 176-182.	5.5	20
57	Determining soil enzyme activities for the assessment of fungi and citric acid-assisted phytoextraction under cadmium and lead contamination. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19860-19869.	5.3	23
58	Identification and characterization of the nitrate assimilation genes in the isolate of <i>Streptomyces griseorubens</i> JSD-1. <i>Microbial Cell Factories</i> , 2014, 13, 174.	4.0	11
59	Label-free fluorescent sensor for lead ion detection based on lead(II)-stabilized G-quadruplex formation. <i>Analytical Biochemistry</i> , 2014, 462, 19-25.	2.4	51
60	The role of nitric oxide synthase signaling pathway in the Zn-induced cellular responses in MCF-7 cells. <i>Environmental Toxicology and Pharmacology</i> , 2014, 38, 783-791.	4.0	2
61	The identification of the nitrate assimilation related genes in the novel <i>Bacillus megaterium</i> NCT-2 accounts for its ability to use nitrate as its only source of nitrogen. <i>Functional and Integrative Genomics</i> , 2014, 14, 219-227.	3.5	21
62	Sensitive colorimetric detection of melamine in milk with an aptamer-modified nanogold probe. <i>RSC Advances</i> , 2013, 3, 17424.	3.6	20
63	Indirect Competitive Immunoassay for Mercury Ion Determination Using Polyclonal Antibody Against the Hg-GSH Complex. <i>Environmental Forensics</i> , 2013, 14, 103-108.	2.6	8
64	A simple fluorescent assay for lead(ii) detection based on lead(ii)-stabilized G-quadruplex formation. <i>RSC Advances</i> , 2013, 3, 16962.	3.6	36
65	A Rapid Colorimetric Detection of Melamine in Raw Milk by Unmodified Gold Nanoparticles. <i>Food Analytical Methods</i> , 2013, 6, 1441-1447.	2.6	22
66	Regulation of hemin peroxidase catalytic activity by arsenic-binding aptamers for the colorimetric detection of arsenic(iii). <i>RSC Advances</i> , 2013, 3, 25614.	3.6	56
67	Colorimetric Sensing of Tetracyclines in Milk Based on the Assembly of Cationic Conjugated Polymer-Aggregated Gold Nanoparticles. <i>Food Analytical Methods</i> , 2013, 6, 1704-1711.	2.6	45
68	Food safety warning research based on internet public opinion monitoring and tracing. , 2013, , .		5
69	Framework and case studies of intelligence monitoring platform in facility agriculture ecosystem. , 2013, , .		19
70	Stereoselective Synthesis of Î³,Î´-Unsaturated Î²-Amino Sulfones from Ellman's N-tert-Butylsulfinyl Ketimines and Methyl Phenyl Sulfone. <i>Synlett</i> , 2012, 23, 2485-2490.	1.8	11
71	A highly sensitive resonance scattering based sensor using unmodified gold nanoparticles for daunomycin detection in aqueous solution. <i>Analytical Methods</i> , 2012, 4, 2266.	2.7	15
72	A silver-specific DNA-based bio-assay for Ag(i) detection via the aggregation of unmodified gold nanoparticles in aqueous solution coupled with resonance Rayleigh scattering. <i>Analytical Methods</i> , 2012, 4, 3997.	2.7	34

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73	Cationic polymers and aptamers mediated aggregation of gold nanoparticles for the colorimetric detection of arsenic(iii) in aqueous solution. <i>Chemical Communications</i> , 2012, 48, 4459.	4.1	223
74	Ultrasensitive aptamer biosensor for arsenic(iii) detection in aqueous solution based on surfactant-induced aggregation of gold nanoparticles. <i>Analyst, The</i> , 2012, 137, 4171.	3.5	160
75	Plant diversity reduces the effect of multiple heavy metal pollution on soil enzyme activities and microbial community structure. <i>Frontiers of Environmental Science and Engineering</i> , 2012, 6, 213-223.	6.0	36
76	Effect of citric acid on phytoextraction and antioxidative defense in <i>Solanum nigrum</i> L. as a hyperaccumulator under Cd and Pb combined pollution. <i>Environmental Earth Sciences</i> , 2012, 65, 1923-1932.	2.7	41
77	An approach for assessing soil health: a practical guide for optimal ecological management. <i>Environmental Earth Sciences</i> , 2012, 65, 153-159.	2.7	5
78	Assessment of effects of heavy metals combined pollution on soil enzyme activities and microbial community structure: modified ecological dose-response model and PCR-RAPD. <i>Environmental Earth Sciences</i> , 2010, 60, 603-612.	2.7	92
79	Transformation of Nitrate Nitrogen by Three Strains of Bacteria Isolated from Facility Culturing Soils. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0
80	Effects of vegetation cover on phosphorus loss from a hillslope cropland of purple soil under simulated rainfall: a case study in China. <i>Nutrient Cycling in Agroecosystems</i> , 2009, 85, 263-273.	2.2	54
81	Effects of Gradients and Rainfall Intensities on Phosphorus Loss Under Simulated Rainfall. , 2008, , .		1
82	DNA damaging effects of carbofuran and its main metabolites on mice by micronucleus test and single cell gel electrophoresis. <i>Science in China Series C: Life Sciences</i> , 2005, 48, 40-47.	1.3	15