Pei Zhou

List of Publications by Year
in descending order

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82	2,397	172457	243625
papers	citations	29	44
		h-index	g-index

83	83	83	2424
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cationic polymers and aptamers mediated aggregation of gold nanoparticles for the colorimetric detection of arsenic(iii) in aqueous solution. Chemical Communications, 2012, 48, 4459.	4.1	223
2	Ultrasensitive aptamer biosensor for arsenic(iii) detection in aqueous solution based on surfactant-induced aggregation of gold nanoparticles. Analyst, The, 2012, 137, 4171.	3.5	160
3	A mini-review on functional nucleic acids-based heavy metal ion detection. Biosensors and Bioelectronics, 2016, 86, 353-368.	10.1	135
4	Assessment of effects of heavy metals combined pollution on soil enzyme activities and microbial community structure: modified ecological doseâ€“response model and PCR-RAPD. Environmental Earth Sciences, 2010, 60, 603-612.	2.7	92
5	Colorimetric Detection of Kanamycin Residue in Foods Based on the Aptamer-Enhanced Peroxidase-Mimicking Activity of Layered WS₂ Nanosheets. Journal of Agricultural and Food Chemistry, 2021, 69, 2884-2893.	5.2	80
6	Electrochemical aptasensor for tetracycline using a screen-printed carbon electrode modified with an alginate film containing reduced graphene oxide and magnetite (Fe3O4) nanoparticles. Mikrochimica Acta, 2016, 183, 723-729.	5.0	72
7	Comparative cytology combined with transcriptomic and metabolomic analyses of Solanum nigrum L. in response to Cd toxicity. Journal of Hazardous Materials, 2022, 423, 127168.	12.4	69
8	Regulation of hemin peroxidase catalytic activity by arsenic-binding aptamers for the colorimetric detection of arsenic(iii). RSC Advances, 2013, 3, 25614.	3.6	56
9	Effects of vegetation cover on phosphorus loss from a hillslope cropland of purple soil under simulated rainfall: a case study in China. Nutrient Cycling in Agroecosystems, 2009, 85, 263-273.	2.2	54
10	Label-free fluorescent sensor for lead ion detection based on lead(II)-stabilized G-quadruplex formation. Analytical Biochemistry, 2014, 462, 19-25.	2.4	51
11	When nanoparticle and microbes meet: The effect of multi-walled carbon nanotubes on microbial community and nutrient cycling in hyperaccumulator system. Journal of Hazardous Materials, 2022, 423, 126947.	12.4	48
12	Colorimetric Sensing of Tetracyclines in Milk Based on the Assembly of Cationic Conjugated Polymer-Aggregated Gold Nanoparticles. Food Analytical Methods, 2013, 6, 1704-1711.	2.6	45
13	Optimization of NPK fertilization combined with phytoremediation of cadmium contaminated soil by orthogonal experiment. Ecotoxicology and Environmental Safety, 2020, 189, 109997.	6.0	45
14	An electrochemical aptasensor based on gold@polypyrrole composites for detection of lead ions. Mikrochimica Acta, 2018, 185, 545.	5.0	42
15	Effect of citric acid on phytoextraction and antioxidative defense in Solanum nigrum L. as a hyperaccumulator under Cd and Pb combined pollution. Environmental Earth Sciences, 2012, 65, 1923-1932.	2.7	41
16	Fluorescent detection of Hg2+ and Pb2+ using GeneFinderâ„¢ and an integrated functional nucleic acid. Biosensors and Bioelectronics, 2015, 72, 95-99.	10.1	40
17	Combating soil salinity with combining saline agriculture and phytomanagement with salt-accumulating plants. Critical Reviews in Environmental Science and Technology, 2020, 50, 1085-1115.	12.8	40
18	Two plant growth promoting bacterial Bacillus strains possess different mechanisms in adsorption and resistance to cadmium. Science of the Total Environment, 2020, 741, 140422.	8.0	40

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19	Small structures with big impact: Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator Solanum nigrum L. under cadmium and arsenic stress. Chemosphere, 2021, 276, 130130.	8.2	39
20	Plant diversity reduces the effect of multiple heavy metal pollution on soil enzyme activities and microbial community structure. Frontiers of Environmental Science and Engineering, 2012, 6, 213-223.	6.0	36
21	A simple fluorescent assay for lead(ii) detection based on lead(ii)-stabilized G-quadruplex formation. RSC Advances, 2013, 3, 16962.	3.6	36
22	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. Analytical Methods, 2012, 4, 3997.	2.7	34
23	Heterologous expression and biochemical characterization of assimilatory nitrate and nitrite reductase reveals adaption and potential of Bacillus megaterium NCT-2 in secondary salinization soil. International Journal of Biological Macromolecules, 2017, 101, 1019-1028.	7.5	34
24	An electrochemical aptasensor for detection of lead ions using a screen-printed carbon electrode modified with Au/polypyrrole composites and toluidine blue. Analytical Methods, 2019, 11, 4274-4279.	2.7	34
25	Dynamic bacterial assembly driven by Streptomyces griseorubens JSD-1 inoculants correspond to composting performance in swine manure and rice straw co-composting. Bioresource Technology, 2020, 313, 123692.	9.6	34
26	Streptomyces griseorubens JSD-1 promotes rice straw composting efficiency in industrial-scale fermenter: Evaluation of change in physicochemical properties and microbial community. Bioresource Technology, 2021, 321, 124465.	9.6	34
27	Anti-Hyperlipidemia and Gut Microbiota Community Regulation Effects of Selenium-Rich Cordyceps militaris Polysaccharides on the High-Fat Diet-Fed Mice Model. Foods, 2021, 10, 2252.	4.3	34
28	Oligonucleotide-induced regulation of the oxidase-mimicking activity of octahedral Mn3O4 nanoparticles for colorimetric detection of heavy metals. Mikrochimica Acta, 2020, 187, 99.	5.0	33
29	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. Mikrochimica Acta, 2015, 182, 1411-1419.	5.0	31
30	Microfluidic Device Directly Fabricated on Screen-Printed Electrodes for Ultrasensitive Electrochemical Sensing of PSA. Nanoscale Research Letters, 2019, 14, 71.	5.7	31
31	Influence of Cd toxicity on subcellular distribution, chemical forms, and physiological responses of cell wall components towards short-term Cd stress in Solanum nigrum. Environmental Science and Pollution Research, 2021, 28, 13955-13969.	5.3	29
32	Plant growth promotion and enhanced uptake of Cd by combinatorial application of Bacillus pumilus and EDTA on Zea mays L.. International Journal of Phytoremediation, 2020, 22, 1372-1384.	3.1	26
33	Determining soil enzyme activities for the assessment of fungi and citric acid-assisted phytoextraction under cadmium and lead contamination. Environmental Science and Pollution Research, 2015, 22, 19860-19869.	5.3	23
34	A Rapid Colorimetric Detection of Melamine in Raw Milk by Unmodified Gold Nanoparticles. Food Analytical Methods, 2013, 6, 1441-1447.	2.6	22
35	Pennisetum giganteum: An emerging salt accumulating/tolerant non-conventional crop for sustainable saline agriculture and simultaneous phytoremediation. Environmental Pollution, 2020, 265, 114876.	7.5	22
36	Phytoremediation of secondary saline soil by halophytes with the enhancement of Î³-polyglutamic acid. Chemosphere, 2021, 285, 131450.	8.2	22

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37	The identification of the nitrate assimilation related genes in the novel Bacillus megaterium NCT-2 accounts for its ability to use nitrate as its only source of nitrogen. Functional and Integrative Genomics, 2014, 14, 219-227.	3.5	21
38	Sensitive colorimetric detection of melamine in milk with an aptamer-modified nanogold probe. RSC Advances, 2013, 3, 17424.	3.6	20
39	Sensitive fluorescent assay for copper (II) determination in aqueous solution using copper-specific ssDNA and Sybr Green I. Talanta, 2015, 142, 176-182.	5.5	20
40	Two plant growth-promoting bacterial Bacillus strains possess different mechanisms in affecting cadmium uptake and detoxification of Solanum nigrum L.. Chemosphere, 2022, 305, 135488.	8.2	20
41	Framework and case studies of intelligence monitoring platform in facility agriculture ecosystem. , 2013, , .		19
42	Biological pretreatment of rice straw with Streptomyces griseorubens JSD-1 and its optimized production of cellulase and xylanase for improved enzymatic saccharification efficiency. Preparative Biochemistry and Biotechnology, 2016, 46, 575-585.	1.9	18
43	Enhanced removal of nitrate in the maize rhizosphere by plant growth-promoting Bacillus megaterium NCT-2, and its colonization pattern in response to nitrate. Chemosphere, 2018, 208, 316-324.	8.2	18
44	Oligonucleotides and pesticide regulated peroxidase catalytic activity of hemin for colorimetric detection of isocarbophos in vegetables by naked eyes. Analytical and Bioanalytical Chemistry, 2019, 411, 7857-7868.	3.7	18
45	An Electrochemical Aptasensor for Pb2+ Detection Based on Metalâ€“Organic-Framework-Derived Hybrid Carbon. Biosensors, 2021, 11, 1.	4.7	18
46	Genome-Wide Analysis of the UDP-Glycosyltransferase Family Reveals Its Roles in Coumarin Biosynthesis and Abiotic Stress in Melilotus albus. International Journal of Molecular Sciences, 2021, 22, 10826.	4.1	18
47	A R2R3-MYB transcription factor from Lablab purpureus induced by drought increases tolerance to abiotic stress in Arabidopsis. Molecular Biology Reports, 2016, 43, 1089-1100.	2.3	17
48	A Facile Aptasensor for Instantaneous Determination of Cadmium Ions Based on Fluorescence Amplification Effect of MOPS on FAM-Labeled Aptamer. Biosensors, 2021, 11, 133.	4.7	17
49	Exogenous Melatonin Enhances Cd Tolerance and Phytoremediation Efficiency by Ameliorating Cd-Induced Stress in Oilseed Crops: A Review. Journal of Plant Growth Regulation, 2022, 41, 922-935.	5.1	16
50	DNA damaging effects of carbofuran and its main metabolites on mice by micronucleus test and single cell gel electrophoresis. Science in China Series C: Life Sciences, 2005, 48, 40-47.	1.3	15
51	A highly sensitive resonance scattering based sensor using unmodified gold nanoparticles for daunomycin detection in aqueous solution. Analytical Methods, 2012, 4, 2266.	2.7	15
52	Label-free colorimetric assay for arsenic(III) determination based on a truncated short ssDNA and gold nanoparticles. Mikrochimica Acta, 2021, 188, 38.	5.0	15
53	Melatonin enhanced oilseed rape growth and mitigated Cd stress risk: A novel trial for reducing Cd accumulation by bioenergy crops. Environmental Pollution, 2022, 308, 119642.	7.5	14
54	A label-free fluorescent sensor for the detection of Pb²⁺ and Hg²⁺. Analytical Methods, 2015, 7, 6260-6265.	2.7	13

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55	Research and Development of a DNDC Online Model for Farmland Carbon Sequestration and GHG Emissions Mitigation in China. International Journal of Environmental Research and Public Health, 2017, 14, 1493.	2.6	13
56	Rice straw as renewable components of horticultural growing media for purple cabbage. Science of the Total Environment, 2020, 747, 141274.	8.0	12
57	Stereoselective Synthesis of Î³,Î´-Unsaturated Î²-Amino Sulfones from Ellmanâ€™s N-tert-Butylsulfinyl Ketimines and Methyl Phenyl Sulfone. Synlett, 2012, 23, 2485-2490.	1.8	11
58	Identification and characterization of the nitrate assimilation genes in the isolate of Streptomyces griseorubens JSD-1. Microbial Cell Factories, 2014, 13, 174.	4.0	11
59	Nicotinamide adenine dinucleotide suppresses epileptogenesis at an early stage. Scientific Reports, 2017, 7, 7321.	3.3	11
60	Genomic Analysis of Bacillus megaterium NCT-2 Reveals Its Genetic Basis for the Bioremediation of Secondary Salinization Soil. International Journal of Genomics, 2020, 2020, 1-11.	1.6	11
61	Label-Free and Sensitive Determination of Cadmium Ions Using a Ti-Modified Co3O4-Based Electrochemical Aptasensor. Biosensors, 2020, 10, 195.	4.7	10
62	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. Journal of Plant Growth Regulation, 2022, 41, 1999-2019.	5.1	10
63	Fate and Risk Assessment of Arsenic Compounds in Soil Amended with Poultry Litter Under Aerobic and Anaerobic Circumstances. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	9
64	A sustainable approach for bioremediation of secondary salinized soils: Studying remediation efficiency and soil nitrate transformation by bioaugmentation. Chemosphere, 2022, 300, 134580.	8.2	9
65	Indirect Competitive Immunoassay for Mercury Ion Determination Using Polyclonal Antibody Against the Hg-GSH Complex. Environmental Forensics, 2013, 14, 103-108.	2.6	8
66	Microencapsulation of Bacillus megaterium NCT-2 and its effect on remediation of secondary salinization soil. Journal of Microencapsulation, 2020, 37, 134-143.	2.8	8
67	Microbe-EDTA mediated approach in the phytoremediation of lead-contaminated soils using maize (Zea mays L.) plants. International Journal of Phytoremediation, 2021, 23, 1-12.	3.1	8
68	How bacteria remediate soil nitrate for sustainable crop production. Journal of Cleaner Production, 2021, 328, 129600.	9.3	8
69	A sustainable approach for removing nitrate: Studying the nitrate transformation and metabolic potential under different carbon source by microorganism. Journal of Cleaner Production, 2022, 346, 131169.	9.3	8
70	Dual-mode colorimetric determination of As(III) based on negatively-charged aptamer-mediated aggregation of positively-charged AuNPs. Analytica Chimica Acta, 2022, 1221, 340111.	5.4	8
71	Preparation of a polyclonal antibody against the cadmiumâ€“DTPA complex and its application for determination of cadmium. Food and Agricultural Immunology, 2015, 26, 794-803.	1.4	7
72	Medium Optimization for Spore Production of a Straw-Cellulose Degrading Actinomyces Strain under Solid-State Fermentation Using Response Surface Method. Sustainability, 2020, 12, 8893.	3.2	6

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73	An approach for assessing soil health: a practical guide for optimal ecological management. Environmental Earth Sciences, 2012, 65, 153-159.	2.7	5
74	Food safety warning research based on internet public opinion monitoring and tracing. , 2013, , .		5
75	Enhancement of Cellulase and Xylanase Production Using pH-Shift and Dissolved Oxygen Control Strategy with Streptomyces griseorubens JSD-1. Applied Biochemistry and Biotechnology, 2016, 178, 338-352.	2.9	5
76	The cytotoxic effect of the <scp>NOS</scp>â€mediated oxidative stress in <scp>MCF</scp>â€7 cells after <scp>P</scp>b<scp>C</scp>l₂ exposure. Environmental Toxicology, 2016, 31, 601-608.	4.0	3
77	Synthesis and Characterization of Artificial Antigens for Copper and Application for Development of an Indirect Competitive Enzyme-Linked Immunosorbent Assay. Analytical Letters, 2015, 48, 1411-1425.	1.8	3
78	The role of nitric oxide synthase signaling pathway in the Zn-induced cellular responses in MCF-7 cells. Environmental Toxicology and Pharmacology, 2014, 38, 783-791.	4.0	2
79	Effects of Gradients and Rainfall Intensities on Phosphorus Loss Under Simulated Rainfall. , 2008, , .		1
80	Targeting Cd coping mechanisms for stress tolerance in Brassica napus under spiked-substrate system: from physiology to remediation perspective. International Journal of Phytoremediation, 2021, , 1-15.	3.1	1
81	Transformation of Nitrate Nitrogen by Three Strains of Bacteria Isolated from Facility Culturing Soils. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
82	Changes in soil bacterial and fungal communities in response to Bacillus megaterium NCT-2 inoculation in secondary salinized soil. PeerJ, 2021, 9, e12309.	2.0	0