Yanzheng Gao

List of Publications by Year
in descending order

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131 papers	5,843 citations	57758 44 h-index	91884 69 g-index
133 all docs	133 docs citations	133 times ranked	5066 citing authors

#	Article	IF	Citations
1	Advances in agro-environmental organic contamination: An introduction to the Special Issue. Chemosphere, 2022, 287, 132071.	8.2	2
2	Humidity induces the formation of radicals and enhances photodegradation of chlorinated-PAHs on Fe(III)-montmorillonite. Journal of Hazardous Materials, 2022, 423, 127210.	12.4	13
3	Ecological and human health risks of manure-borne steroid estrogens: A 20-year global synthesis study. Journal of Environmental Management, 2022, 301, 113708.	7.8	10
4	Nano-goethite-mediated transformation of anthracene derivatives under low moisture conditions. Environmental Science: Nano, 2022, 9, 289-301.	4.3	2
5	Enhanced PAHs-contaminated site soils remediation by mixed persulfate and calcium peroxide. Journal of Environmental Management, 2022, 306, 114363.	7.8	12
6	Non-covalent binding interaction between phthalic acid esters and DNA. Environment International, 2022, 161, 107095.	10.0	23
7	Nitrogen Regulates the Distribution of Antibiotic Resistance Genes in the Soilâ€“Vegetable System. Frontiers in Microbiology, 2022, 13, 848750.	3.5	4
8	Enhanced transformation capability towards benzo(a)pyrene by Fe(III)-modified manganese oxides. Journal of Hazardous Materials, 2022, 431, 128637.	12.4	6
9	Functional group substitutions influence the binding of benzophenone-type UV filters with DNA. Chemosphere, 2022, 299, 134490.	8.2	6
10	Impact of Plastic Particles on the Horizontal Transfer of Antibiotic Resistance Genes to Bacterium: Dependent on Particle Sizes and Antibiotic Resistance Gene Vector Replication Capacities. Environmental Science & Technology, 2022, 56, 14948-14959.	10.0	31
11	Insights into the Applications of Extracellular Laccase-Aided Humification in Livestock Manure Composting. Environmental Science & Technology, 2022, 56, 7412-7425.	10.0	38
12	New insights into humic acid-boosted conversion of bisphenol A by laccase-activated co-polyreaction: Kinetics, products, and phytotoxicity. Journal of Hazardous Materials, 2022, 436, 129269.	12.4	13
13	Inhibition mechanisms of Fe2+/Fe3+ and Mn2+ on fungal laccase-enabled bisphenol a polyreaction. Chemosphere, 2022, 307, 135685.	8.2	3
14	Amino, nitro, chloro, hydroxyl and methyl substitutions may inhibit the binding of PAHs with DNA. Environmental Pollution, 2021, 268, 115798.	7.5	13
15	Bacterial community and PAH-degrading genes in paddy soil and rice grain from PAH-contaminated area. Applied Soil Ecology, 2021, 158, 103789.	4.3	20
16	Nano-MoO2 activates peroxymonosulfate for the degradation of PAH derivatives. Water Research, 2021, 192, 116834.	11.3	56
17	Abatement of Polycyclic Aromatic Hydrocarbon Residues in Biochars by Thermal Oxidation. Environmental Science and Technology Letters, 2021, 8, 451-456.	8.7	8
18	Occurrence, formation and environmental fate of polycyclic aromatic hydrocarbons in biochars. Fundamental Research, 2021, 1, 296-305.	3.3	31

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19	Agro-environmental contamination, food safety and human health: An introduction to the special issue. Environment International, 2021, 157, 106812.	10.0	1
20	Characterization of Different Molecular Size Fractions of Glomalin-Related Soil Protein From Forest Soil and Their Interaction With Phenanthrene. Frontiers in Microbiology, 2021, 12, 822831.	3.5	5
21	A Fast and Easily Parallelizable Biosensor Method for Measuring Extractable Tetracyclines in Soils. Environmental Science & Technology, 2020, 54, 758-767.	10.0	26
22	Occurrence, formation, environmental fate and risks of environmentally persistent free radicals in biochars. Environment International, 2020, 134, 105172.	10.0	125
23	Metabolism of 17Î²-estradiol by Novosphingobium sp. ES2-1 as probed via HRMS combined with 13C3-labeling. Journal of Hazardous Materials, 2020, 389, 121875.	12.4	16
24	Antibiotic resistance gene abundance and bacterial community structure in soils altered by Ammonium and Nitrate Concentrations. Soil Biology and Biochemistry, 2020, 149, 107965.	8.8	36
25	Whole-cell paper strip biosensors to semi-quantify tetracycline antibiotics in environmental matrices. Biosensors and Bioelectronics, 2020, 168, 112528.	10.1	32
26	Glomalin-related soil protein reduces the sorption of polycyclic aromatic hydrocarbons by soils. Chemosphere, 2020, 260, 127603.	8.2	15
27	Nonmonotonic Effect of Montmorillonites on the Horizontal Transfer of Antibiotic Resistance Genes to Bacteria. Environmental Science and Technology Letters, 2020, 7, 421-427.	8.7	24
28	Amino and hydroxy substitution influences pyreneâ€“DNA binding. Science of the Total Environment, 2020, 725, 138542.	8.0	14
29	The convertion of sewage sludge to biochar as a sustainable tool of PAHs exposure reduction during agricultural utilization of sewage sludges. Journal of Hazardous Materials, 2020, 392, 122416.	12.4	32
30	Antibiotic-contaminated wastewater irrigated vegetables pose resistance selection risks to the gut microbiome. Environmental Pollution, 2020, 264, 114752.	7.5	66
31	Enzymatic degradation of extracellular DNA exposed to chlorpyrifos and chlorpyrifos-methyl in an aqueous system. Environment International, 2019, 132, 105087.	10.0	20
32	Endophytic Bacteria in in planta Organopollutant Detoxification in Crops. Reviews of Environmental Contamination and Toxicology, 2019, 252, 1-50.	1.3	1
33	Glomalin-related soil protein enhances the sorption of polycyclic aromatic hydrocarbons on cation-modified montmorillonite. Environment International, 2019, 132, 105093.	10.0	12
34	Vanadium oxide activates persulfate for degradation of polycyclic aromatic hydrocarbons in aqueous system. Chemical Engineering Journal, 2019, 364, 79-88.	12.7	52
35	Polyaromatic hydrocarbons in biochars and human health risks of food crops grown in biochar-amended soils: A synthesis study. Environment International, 2019, 130, 104899.	10.0	60
36	A PAH-degrading bacterial community enriched with contaminated agricultural soil and its utility for microbial bioremediation. Environmental Pollution, 2019, 251, 773-782.	7.5	160

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37	Extracellular Polymeric Substances Acting as a Permeable Barrier Hinder the Lateral Transfer of Antibiotic Resistance Genes. Frontiers in Microbiology, 2019, 10, 736.	3.5	33
38	Carbon dioxide as a carrier gas and biomass addition decrease the total and bioavailable polycyclic aromatic hydrocarbons in biochar produced from sewage sludge. Chemosphere, 2019, 228, 26-34.	8.2	36
39	Organochlorinated pesticides expedite the enzymatic degradation of DNA. Communications Biology, 2019, 2, 81.	4.4	11
40	Plasmid binding to metal oxide nanoparticles inhibited lateral transfer of antibiotic resistance genes. Environmental Science: Nano, 2019, 6, 1310-1322.	4.3	34
41	Elimination of the risks of colistin resistance gene (mcr-1) in livestock manure during composting. Environment International, 2019, 126, 61-68.	10.0	40
42	Phenanthrene-degrading bacteria on root surfaces: a natural defense that protects plants from phenanthrene contamination. Plant and Soil, 2018, 425, 335-350.	3.7	18
43	DNA Facilitates the Sorption of Polycyclic Aromatic Hydrocarbons on Montmorillonites. Environmental Science & Technology, 2018, 52, 2694-2703.	10.0	27
44	Comparative Transcriptome Analysis Reveals the Mechanism Underlying 3,5-Dibromo-4-Hydroxybenzoate Catabolism via a New Oxidative Decarboxylation Pathway. Applied and Environmental Microbiology, 2018, 84, .	3.1	19
45	Removal of estrone, 17<i>Î²</i>-estradiol, and estriol from sewage and cow dung by immobilized <i>Novosphingobium</i> sp. ARI-1. Environmental Technology (United Kingdom), 2018, 39, 2423-2433.	2.2	16
46	Effects of water-saving irrigation on the residues and risk of polycyclic aromatic hydrocarbon in paddy field. Science of the Total Environment, 2018, 618, 736-745.	8.0	23
47	Subcellular distribution and biotransformation of phenanthrene in pakchoi after inoculation with endophytic Pseudomonas sp. as probed using HRMS coupled with isotope-labeling. Environmental Pollution, 2018, 237, 858-867.	7.5	25
48	Application of biochar to soils may result in plant contamination and human cancer risk due to exposure of polycyclic aromatic hydrocarbons. Environment International, 2018, 121, 169-177.	10.0	71
49	Glomalin-related soil protein influences the accumulation of polycyclic aromatic hydrocarbons by plant roots. Science of the Total Environment, 2018, 644, 465-473.	8.0	21
50	Rhamnolipid influences biosorption and biodegradation of phenanthrene by phenanthrene-degrading strain Pseudomonas sp. Ph6. Environmental Pollution, 2018, 240, 359-367.	7.5	63
51	Phytoavailability and mechanism of bound PAH residues in filed contaminated soils. Environmental Pollution, 2017, 222, 465-476.	7.5	53
52	The endophytic bacterium Serratia sp. PW7 degrades pyrene in wheat. Environmental Science and Pollution Research, 2017, 24, 6648-6656.	5.3	16
53	Glomalin-related soil protein enhances the availability of polycyclic aromatic hydrocarbons in soil. Soil Biology and Biochemistry, 2017, 107, 129-132.	8.8	22
54	Sources and health risks of polycyclic aromatic hydrocarbons during haze days in eastern China: A 1-year case study in Nanjing City. Ecotoxicology and Environmental Safety, 2017, 140, 76-83.	6.0	22

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55	Composite of PAH-degrading endophytic bacteria reduces contamination and health risks caused by PAHs in vegetables. Science of the Total Environment, 2017, 598, 471-478.	8.0	36
56	Bioavailability of Soil-Sorbed Tetracycline to <i>Escherichia coli</i> under Unsaturated Conditions. Environmental Science & Technology, 2017, 51, 6165-6173.	10.0	41
57	Inoculation of a phenanthrene-degrading endophytic bacterium reduces the phenanthrene level and alters the bacterial community structure in wheat. Applied Microbiology and Biotechnology, 2017, 101, 5199-5212.	3.6	14
58	Inoculation with arbuscular mycorrhizal fungi increases glomalin-related soil protein content and PAH removal in soils planted with Medicago sativa L.. Soil Biology and Biochemistry, 2017, 115, 148-151.	8.8	28
59	Sphingomonads in Microbe-Assisted Phytoremediation: Tackling Soil Pollution. Trends in Biotechnology, 2017, 35, 883-899.	9.3	72
60	Environmentally-relevant concentrations of Al(III) and Fe(III) cations induce aggregation of free DNA by complexation with phosphate group. Water Research, 2017, 123, 58-66.	11.3	30
61	Contamination and health risk assessment of PAHs in soils and crops in industrial areas of the Yangtze River Delta region, China. Chemosphere, 2017, 168, 976-987.	8.2	137
62	Alkaliâ€“earth metal bridges formed in biofilm matrices regulate the uptake of fluoroquinolone antibiotics and protect against bacterial apoptosis. Environmental Pollution, 2017, 220, 112-123.	7.5	13
63	Laccase-mediated transformation of triclosan in aqueous solution with metal cations and humic acid. Environmental Pollution, 2017, 220, 105-111.	7.5	26
64	Biodegradation of Mixed PAHs by PAH-Degrading Endophytic Bacteria. International Journal of Environmental Research and Public Health, 2016, 13, 805.	2.6	48
65	Sequestration of nanoparticles by an EPS matrix reduces the particle-specific bactericidal activity. Scientific Reports, 2016, 6, 21379.	3.3	37
66	Understanding the sorption mechanisms of aflatoxin B1 to kaolinite, illite, and smectite clays via a comparative computational study. Journal of Hazardous Materials, 2016, 320, 80-87.	12.4	58
67	Laccase-Catalyzed Oxidative Coupling Reaction of Triclosan in Aqueous Solution. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	8
68	Laccase-catalyzed reactions of 17Î²-estradiol in the presence of humic acid: Resolved by high-resolution mass spectrometry in combination with 13C labeling. Chemosphere, 2016, 145, 394-401.	8.2	48
69	Transformation of 17Î²-estradiol in humic acid solution by Îµ-MnO2 nanorods as probed by high-resolution mass spectrometry combined with 13C labeling. Environmental Pollution, 2016, 214, 211-218.	7.5	24
70	Diversity and distribution of 16S rRNA and phenol monooxygenase genes in the rhizosphere and endophytic bacteria isolated from PAH-contaminated sites. Scientific Reports, 2015, 5, 12173.	3.3	18
71	Low-Molecular-Weight Organic Acids Influence the Sorption of Phenanthrene by Different Soil Particle Size Fractions. Journal of Environmental Quality, 2015, 44, 219-227.	2.0	17
72	Removal of phenanthrene and acenaphthene from aqueous solution by enzyme-catalyzed phenol coupling reaction. Chemical Engineering Journal, 2015, 265, 27-33.	12.7	9

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73	Bacterial diversity losses: A potential extracellular driving mechanism involving the molecular ecological function of hydrophobic polycyclic aromatic hydrocarbons. Biotechnology Reports (Amsterdam, Netherlands), 2015, 5, 27-30.	4.4	3
74	Phenanthrene biodegradation by sphingomonads and its application in the contaminated soils and sediments: A review. International Biodeterioration and Biodegradation, 2015, 104, 333-349.	3.9	143
75	Inoculating plants with the endophytic bacterium Pseudomonas sp. Ph6-gfp to reduce phenanthrene contamination. Environmental Science and Pollution Research, 2015, 22, 19529-19537.	5.3	24
76	Noncovalent Binding of Polycyclic Aromatic Hydrocarbons with Genetic Bases Reducing the <i>in Vitro</i> Lateral Transfer of Antibiotic Resistant Genes. Environmental Science & Technology, 2015, 49, 10340-10348.	10.0	38
77	Influence of Dissolved Organic Matter on Tetracycline Bioavailability to an Antibiotic-Resistant Bacterium. Environmental Science & Technology, 2015, 49, 10903-10910.	10.0	86
78	Low-molecular-weight organic acids enhance the release of bound PAH residues in soils. Soil and Tillage Research, 2015, 145, 103-110.	5.6	59
79	Colonization on Root Surface by a Phenanthrene-Degrading Endophytic Bacterium and Its Application for Reducing Plant Phenanthrene Contamination. PLoS ONE, 2014, 9, e108249.	2.5	32
80	Utilizing pyrene-degrading endophytic bacteria to reduce the risk of plant pyrene contamination. Plant and Soil, 2014, 374, 251-262.	3.7	61
81	Application of canonical correspondence analysis to determine the ecological contribution of phytoplankton to PCBs bioaccumulation in Qinhuai River, Nanjing, China. Environmental Science and Pollution Research, 2014, 21, 3091-3103.	5.3	15
82	Application of Endophytic Bacteria to Reduce Persistent Organic Pollutants Contamination in Plants. Clean - Soil, Air, Water, 2014, 42, 306-310.	1.1	40
83	Oxidation of polycyclic aromatic hydrocarbons by horseradish peroxidase in water containing an organic cosolvent. Environmental Science and Pollution Research, 2014, 21, 10696-10705.	5.3	20
84	Isolation, plant colonization potential and phenanthrene degradation performance of the endophytic bacterium Pseudomonas sp. Ph6-gfp. Scientific Reports, 2014, 4, 5462.	3.3	72
85	Metabolism and subcellular distribution of anthracene in tall fescue (Festuca arundinacea Schreb.). Plant and Soil, 2013, 365, 171-182.	3.7	57
86	The use of experimental data and the application of a kinetic model to determine the subcellular distribution of Zn/Cd/Ni/Cu over time in Indian mustard. RSC Advances, 2013, 3, 12423.	3.6	2
87	Understanding the patterns and mechanisms of urban water ecosystem degradation: phytoplankton community structure and water quality in the Qinhuai River, Nanjing City, China. Environmental Science and Pollution Research, 2013, 20, 5003-5012.	5.3	23
88	Phytoavailability and Rhizospheric Gradient Distribution of Bound-Polycyclic Aromatic Hydrocarbon Residues in Soils. Soil Science Society of America Journal, 2013, 77, 1572-1583.	2.2	18
89	Subcellular Accumulation of Different Concentrations of Cadmium, Nickel, and Copper in Indian Mustard and Application of a Sigmoidal Model. Journal of Environmental Quality, 2013, 42, 1142-1150.	2.0	5
90	Elution of Polycyclic Aromatic Hydrocarbons in Soil Columns Using Lowâ€Molecularâ€Weight Organic Acids. Soil Science Society of America Journal, 2013, 77, 72-82.	2.2	18

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91	The Impact of Different Root Exudate Components on Phenanthrene Availability in Soil. , 2013, , 653-657.		2
92	Ca2+ Promoted the Low Transformation Efficiency of Plasmid DNA Exposed to PAH Contaminants. PLoS ONE, 2013, 8, e58238.	2.5	13
93	Distribution of Endophytic Bacteria in Alopecurus aequalis Sobol and Oxalis corniculata L. from Soils Contaminated by Polycyclic Aromatic Hydrocarbons. PLoS ONE, 2013, 8, e83054.	2.5	43
94	The Impact of Different Root Exudate Components on Phenanthrene Availability in Soil. Soil Science Society of America Journal, 2012, 76, 2041-2050.	2.2	32
95	Ascorbic Acid Enhances the Accumulation of Polycyclic Aromatic Hydrocarbons (PAHs) in Roots of Tall Fescue (Festuca arundinacea Schreb.). PLoS ONE, 2012, 7, e50467.	2.5	19
96	Low concentrations of polycyclic aromatic hydrocarbons promote the growth of Microcystis aeruginosa. Journal of Hazardous Materials, 2012, 237-238, 371-375.	12.4	41
97	Arbuscular Mycorrhizal Colonization Alters Subcellular Distribution and Chemical Forms of Cadmium in Medicago sativa L. and Resists Cadmium Toxicity. PLoS ONE, 2012, 7, e48669.	2.5	50
98	Polyphenol Oxidase Activity in Subcellular Fractions of Tall Fescue Contaminated by Polycyclic Aromatic Hydrocarbons. Journal of Environmental Quality, 2012, 41, 807-813.	2.0	18
99	Phenanthrene Removal from Aqueous Solution on Sesame Stalkâ€based Carbon. Clean - Soil, Air, Water, 2012, 40, 752-759.	1.1	17
100	Optimization of extractants, purifying packings, and eluents for analytical extraction of organochlorine pesticides in Hydragric Acrisols. Environmental Monitoring and Assessment, 2012, 184, 5159-5171.	2.7	4
101	Cosorption of Phenanthrene and Mercury(II) from Aqueous Solution by Soybean Stalk-Based Biochar. Journal of Agricultural and Food Chemistry, 2011, 59, 12116-12123.	5.2	170
102	PAHs Pass Through the Cell Wall and Partition into Organelles of Arbuscular Mycorrhizal Roots of Ryegrass. Journal of Environmental Quality, 2011, 40, 653-656.	2.0	17
103	Removal of Polycyclic Aromatic Hydrocarbons from Aqueous Solution on Soybean Stalkâ€"based Carbon. Journal of Environmental Quality, 2011, 40, 1737-1744.	2.0	32
104	Arbuscular mycorrhizal phytoremediation of soils contaminated with phenanthrene and pyrene. Journal of Hazardous Materials, 2011, 185, 703-709.	12.4	106
105	Gradient Distribution of Root Exudates and Polycyclic Aromatic Hydrocarbons in Rhizosphere Soil. Soil Science Society of America Journal, 2011, 75, 1694-1703.	2.2	64
106	Availability of polycyclic aromatic hydrocarbons in aging soils. Journal of Soils and Sediments, 2010, 10, 799-807.	3.0	47
107	Distribution of polycyclic aromatic hydrocarbons in subcellular root tissues of ryegrass (Lolium) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	140
108	Arbuscular mycorrhizal fungal hyphae contribute to the uptake of polycyclic aromatic hydrocarbons by plant roots. Bioresource Technology, 2010, 101, 6895-6901.	9.6	101

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109	Desorption of phenanthrene and pyrene in soils by root exudates. Bioresource Technology, 2010, 101, 1159-1165.	9.6	126
110	Effects of Lowâ€Molecularâ€Weight Organic Acids on Sorptionâ€"Desorption of Phenanthrene in Soils. Soil Science Society of America Journal, 2010, 74, 51-59.	2.2	57
111	Inhibition of Free DNA Degradation by the Deformation of DNA Exposed to Trace Polycyclic Aromatic Hydrocarbon Contaminants. Environmental Science & Technology, 2010, 44, 8891-8896.	10.0	28
112	COMPARISON OF OSMOTIC REGULATION IN DEHYDRATION- AND SALINITY-STRESSED SUNFLOWER SEEDLINGS. Journal of Plant Nutrition, 2010, 33, 966-981.	1.9	18
113	Impact of low-molecular-weight organic acids on the availability of phenanthrene and pyrene in soil. Soil Biology and Biochemistry, 2009, 41, 2187-2195.	8.8	102
114	Fractionation of polycyclic aromatic hydrocarbon residues in soils. Journal of Hazardous Materials, 2009, 172, 897-903.	12.4	53
115	Uptake Pathways of Polycyclic Aromatic Hydrocarbons in White Clover. Environmental Science & Technology, 2009, 43, 6190-6195.	10.0	95
116	Partitioning of polycyclic aromatic hydrocarbons between plant roots and water. Plant and Soil, 2008, 311, 201-209.	3.7	35
117	Uptake of polycyclic aromatic hydrocarbons by Trifolium pretense L. from water in the presence of a nonionic surfactant. Chemosphere, 2008, 72, 636-643.	8.2	60
118	Surfactant-Enhanced Phytoremediation of Soils Contaminated with Hydrophobic Organic Contaminants: Potential and Assessment. Pedosphere, 2007, 17, 409-418.	4.0	74
119	Use of bentonite to control the release of copper from contaminated soils. Soil Research, 2007, 45, 618.	1.1	91
120	Impact of exotic and inherent dissolved organic matter on sorption of phenanthrene by soils. Journal of Hazardous Materials, 2007, 140, 138-144.	12.4	64
121	Plant-accelerated dissipation of phenanthrene and pyrene from water in the presence of a nonionic-surfactant. Chemosphere, 2006, 63, 1560-1567.	8.2	75
122	Sorption of phenanthrene by soils contaminated with heavy metals. Chemosphere, 2006, 65, 1355-1361.	8.2	71
123	Comparison for plant uptake of phenanthrene and pyrene from soil and water. Biology and Fertility of Soils, 2006, 42, 387-394.	4.3	39
124	Dissolved organic matter enhances the sorption of atrazine by soil. Biology and Fertility of Soils, 2006, 42, 418-425.	4.3	51
125	A novel solubilization of phenanthrene using Winsor I microemulsion-based sodium castor oil sulfate. Journal of Hazardous Materials, 2005, 119, 205-211.	12.4	47
126	Application of the partition-limited model for plant uptake of organic chemicals from soil and water. Science of the Total Environment, 2005, 336, 171-182.	8.0	58

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127	Promoted dissipation of phenanthrene and pyrene in soils by amaranth (Amaranthus tricolor L.). Environmental Geology, 2004, 46, 553.	1.2	31
128	Plant uptake, accumulation and translocation of phenanthrene and pyrene in soils. Chemosphere, 2004, 55, 1169-1178.	8.2	420
129	Prediction of phenanthrene uptake by plants with a partition-limited model. Environmental Pollution, 2004, 131, 505-508.	7.5	31
130	Distributions of polycyclic aromatic hydrocarbons in surface waters, sediments and soils of Hangzhou City, China. Water Research, 2004, 38, 3558-3568.	11.3	248
131	Effects of organic acids on copper and cadmium desorption from contaminated soils. Environment International, 2003, 29, 613-618.	10.0	135