

Peng Cai

List of Publications by Year in descending order

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124
papers

5,764
citations

57758

44
h-index

91884

69
g-index

127
all docs

127
docs citations

127
times ranked

5777
citing authors

#	ARTICLE	IF	CITATIONS
1	An invisible workforce in soil: The neglected role of soil biofilms in conjugative transfer of antibiotic resistance genes. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2720-2748.	12.8	14
2	Zooming in to acquire micro-reaction: Application of microfluidics on soil microbiome. <i>Soil Ecology Letters</i> , 2022, 4, 213-223.	4.5	3
3	Warming and humidification mediated changes of DOM composition in an Alfisol. <i>Science of the Total Environment</i> , 2022, 805, 150198.	8.0	11
4	Influence of surface coatings on the adhesion of <i>Shewanella oneidensis</i> MR-1 to hematite. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2955-2963.	9.4	9
5	Functional group diversity for the adsorption of lead(Pb) to bacterial cells and extracellular polymeric substances. <i>Environmental Pollution</i> , 2022, 295, 118651.	7.5	18
6	Size-dependent visible-light-enhanced Cr(VI) bioreduction by hematite nanoparticles. <i>Chemosphere</i> , 2022, 295, 133633.	8.2	7
7	Humic acids restrict the transformation and the stabilization of Cd by iron (hydr)oxides. <i>Journal of Hazardous Materials</i> , 2022, 430, 128365.	12.4	25
8	A Polysaccharide Biosynthesis Locus in <i>Vibrio parahaemolyticus</i> Important for Biofilm Formation Has Homologs Widely Distributed in Aquatic Bacteria Mainly from <i>Gamma</i> proteobacteria. <i>MSystems</i> , 2022, 7, e0122621.	3.8	10
9	Microbial formation and stabilisation of soil organic carbon is regulated by carbon substrate identity and mineral composition. <i>Geoderma</i> , 2022, 414, 115762.	5.1	11
10	Effects of hematite on the dissemination of antibiotic resistance in pathogens and underlying mechanisms. <i>Journal of Hazardous Materials</i> , 2022, 431, 128537.	12.4	5
11	Insights into conjugative transfer of antibiotic resistance genes affected by soil minerals. <i>European Journal of Soil Science</i> , 2021, 72, 1143-1153.	3.9	14
12	Soil phyllosilicate and iron oxide inhibit the quorum sensing of <i>Chromobacterium violaceum</i> . <i>Soil Ecology Letters</i> , 2021, 3, 22-31.	4.5	3
13	The role of interfacial reactions in controlling the distribution of Cd within goethite-humic acid-bacteria composites. <i>Journal of Hazardous Materials</i> , 2021, 405, 124081.	12.4	20
14	Quantitative analysis of the surficial and adhesion properties of the Gram-negative bacterial species <i>Comamonas testosteroni</i> modulated by c-di-GMP. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 198, 111497.	5.0	9
15	The initial inoculation ratio regulates bacterial coculture interactions and metabolic capacity. <i>ISME Journal</i> , 2021, 15, 29-40.	9.8	44
16	Whole-Cell Microbial Bioreporter for Soil Contaminants Detection. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 622994.	4.1	20
17	Increased particle size of goethite enhances the antibacterial effect on human pathogen <i>Escherichia coli</i> O157:H7: A Raman spectroscopic study. <i>Journal of Hazardous Materials</i> , 2021, 405, 124174.	12.4	8
18	Selective retention of extracellular polymeric substances induced by adsorption to and coprecipitation with ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 15-34.	3.9	27

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19	Effects of long-term fertilization on calcium-associated soil organic carbon: Implications for C sequestration in agricultural soils. <i>Science of the Total Environment</i> , 2021, 772, 145037.	8.0	30
20	Special Issue on Soil Pollution, Control, and Remediation. <i>Soil Ecology Letters</i> , 2021, 3, 167-168.	4.5	4
21	Divergent bacterial transformation exerted by soil minerals. <i>Science of the Total Environment</i> , 2021, 784, 147173.	8.0	5
22	ggVennDiagram: An Intuitive, Easy-to-Use, and Highly Customizable R Package to Generate Venn Diagram. <i>Frontiers in Genetics</i> , 2021, 12, 706907.	2.3	134
23	Emergent transcriptional adaptation facilitates convergent succession within a synthetic community. <i>ISME Communications</i> , 2021, 1, .	4.2	8
24	Mechanistic investigation and modeling of Cd immobilization by iron (hydr)oxide-humic acid coprecipitates. <i>Journal of Hazardous Materials</i> , 2021, 420, 126603.	12.4	19
25	Recent advances in mitigating membrane biofouling using carbon-based materials. <i>Journal of Hazardous Materials</i> , 2020, 382, 120976.	12.4	67
26	Interspecific interactions in dual-species biofilms of soil bacteria: effects of fertilization practices. <i>Journal of Soils and Sediments</i> , 2020, 20, 1494-1501.	3.0	6
27	Outer Membrane <i>c</i> -Type Cytochromes OmcA and MtrC Play Distinct Roles in Enhancing the Attachment of <i>Shewanella oneidensis</i> MR-1 Cells to Goethite. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	36
28	The attachment process and physiological properties of <i>Escherichia coli</i> O157:H7 on quartz. <i>BMC Microbiology</i> , 2020, 20, 355.	3.3	3
29	The exopolysaccharide-eDNA interaction modulates 3D architecture of <i>Bacillus subtilis</i> biofilm. <i>BMC Microbiology</i> , 2020, 20, 115.	3.3	56
30	Characterization of Cu distribution in clay-sized soil aggregates by NanoSIMS and micro-XRF. <i>Chemosphere</i> , 2020, 249, 126143.	8.2	18
31	Towards a better understanding of <i>Pseudomonas putida</i> biofilm formation in the presence of ZnO nanoparticles (NPs): Role of NP concentration. <i>Environment International</i> , 2020, 137, 105485.	10.0	49
32	Response to Letter to the Editor "Soil biofilms: Misleading description of the spatial distribution of microbial biomass in soils. <i>Soil Ecology Letters</i> , 2020, 2, 6-7.	4.5	0
33	Divergent Influence to a Pathogen Invader by Resident Bacteria with Different Social Interactions. <i>Microbial Ecology</i> , 2019, 77, 76-86.	2.8	9
34	Heavy metal behaviour at mineral-organo interfaces: Mechanisms, modelling and influence factors. <i>Environment International</i> , 2019, 131, 104995.	10.0	123
35	Soil biofilms: microbial interactions, challenges, and advanced techniques for ex-situ characterization. <i>Soil Ecology Letters</i> , 2019, 1, 85-93.	4.5	62
36	Soil biofilm formation enhances microbial community diversity and metabolic activity. <i>Environment International</i> , 2019, 132, 105116.	10.0	80

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37	Extraction of extracellular polymeric substances (EPS) from red soils (Ultisols). <i>Soil Biology and Biochemistry</i> , 2019, 135, 283-285.	8.8	28
38	Bio-organic stabilizing agent shows promising prospect for the stabilization of cadmium in contaminated farmland soil. <i>Environmental Science and Pollution Research</i> , 2019, 26, 23399-23406.	5.3	19
39	Size-Dependent Bacterial Toxicity of Hematite Particles. <i>Environmental Science & Technology</i> , 2019, 53, 8147-8156.	10.0	46
40	Impact of metal oxide nanoparticles on in vitro DNA amplification. <i>PeerJ</i> , 2019, 7, e7228.	2.0	12
41	Pb sorption on montmorillonite-bacteria composites: A combination study by XAFS, ITC and SCM. <i>Chemosphere</i> , 2018, 200, 427-436.	8.2	37
42	Distribution and mobility of exogenous copper as influenced by aging and components interactions in three Chinese soils. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10771-10781.	5.3	10
43	Metabolism, survival, and gene expression of <i>Pseudomonas putida</i> to hematite nanoparticles mediated by surface-bound humic acid. <i>Environmental Science: Nano</i> , 2018, 5, 682-695.	4.3	26
44	Modeling of Cd adsorption to goethite-bacteria composites. <i>Chemosphere</i> , 2018, 193, 943-950.	8.2	31
45	Aging shapes the distribution of copper in soil aggregate size fractions. <i>Environmental Pollution</i> , 2018, 233, 569-576.	7.5	38
46	Organic matter facilitates the binding of Pb to iron oxides in a subtropical contaminated soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 32130-32139.	5.3	22
47	Impact of soil clay minerals on growth, biofilm formation, and virulence gene expression of <i>Escherichia coli</i> O157:H7. <i>Environmental Pollution</i> , 2018, 243, 953-960.	7.5	41
48	Binding to type I collagen is essential for the infectivity of <i>Vibrio parahaemolyticus</i> to host cells. <i>Cellular Microbiology</i> , 2018, 20, e12856.	2.1	9
49	EPS adsorption to goethite: Molecular level adsorption mechanisms using 2D correlation spectroscopy. <i>Chemical Geology</i> , 2018, 494, 127-135.	3.3	30
50	Recent advances in microbial electrochemical system for soil bioremediation. <i>Chemosphere</i> , 2018, 211, 156-163.	8.2	56
51	Towards a better understanding of the aggregation mechanisms of iron (hydr)oxide nanoparticles interacting with extracellular polymeric substances: Role of pH and electrolyte solution. <i>Science of the Total Environment</i> , 2018, 645, 372-379.	8.0	22
52	Role of pH and ionic strength in the aggregation of TiO ₂ nanoparticles in the presence of extracellular polymeric substances from <i>Bacillus subtilis</i> . <i>Environmental Pollution</i> , 2017, 228, 35-42.	7.5	66
53	<i>Bacillus subtilis</i> biofilm development in the presence of soil clay minerals and iron oxides. <i>Npj Biofilms and Microbiomes</i> , 2017, 3, 4.	6.4	83
54	Survival of <i>Escherichia coli</i> O157:H7 in various soil particles: importance of the attached bacterial phenotype. <i>Biology and Fertility of Soils</i> , 2017, 53, 209-219.	4.3	17

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55	Effects of humic acid on the interactions between zinc oxide nanoparticles and bacterial biofilms. <i>Environmental Pollution</i> , 2017, 231, 1104-1111.	7.5	39
56	Surface complexation modeling of Cu(II) sorption to montmorillonite-bacteria composites. <i>Science of the Total Environment</i> , 2017, 607-608, 1408-1418.	8.0	25
57	Metal-free inactivation of <i>E. coli</i> O157:H7 by fullerene/C ₃ N ₄ hybrid under visible light irradiation. <i>Ecotoxicology and Environmental Safety</i> , 2017, 136, 40-45.	6.0	38
58	Influence of bacterial extracellular polymeric substances on the sorption of Zn on γ -alumina: A combination of FTIR and EXAFS studies. <i>Environmental Pollution</i> , 2017, 220, 997-1004.	7.5	10
59	Molecular investigation on the binding of Cd(II) by the binary mixtures of montmorillonite with two bacterial species. <i>Environmental Pollution</i> , 2017, 229, 871-878.	7.5	40
60	Surface complexation modeling of Cd(II) sorption to montmorillonite, bacteria, and their composite. <i>Biogeosciences</i> , 2016, 13, 5557-5566.	3.3	21
61	Cd(II) Sorption on Montmorillonite-Humic acid-Bacteria Composites. <i>Scientific Reports</i> , 2016, 6, 19499.	3.3	49
62	Microbial communities play important roles in modulating paddy soil fertility. <i>Scientific Reports</i> , 2016, 6, 20326.	3.3	63
63	Competitive adsorption of Pb and Cd on bacteria-montmorillonite composite. <i>Environmental Pollution</i> , 2016, 218, 168-175.	7.5	71
64	Influence of extracellular polymeric substances on the aggregation kinetics of TiO ₂ nanoparticles. <i>Water Research</i> , 2016, 104, 381-388.	11.3	77
65	Cadmium adsorption on bacteria-mineral mixtures: effect of naturally occurring ligands. <i>European Journal of Soil Science</i> , 2016, 67, 641-649.	3.9	22
66	Efficient Photocatalytic Disinfection of <i>Escherichia coli</i> O157:H7 using C70-TiO ₂ Hybrid under Visible Light Irradiation. <i>Scientific Reports</i> , 2016, 6, 25702.	3.3	45
67	Interactions of EPS with soil minerals: A combination study by ITC and CLSM. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 138, 10-16.	5.0	64
68	Atomic force microscopy measurements of bacterial adhesion and biofilm formation onto clay-sized particles. <i>Scientific Reports</i> , 2015, 5, 16857.	3.3	122
69	Effects of humic acid on adhesion of <i>Bacillus subtilis</i> to phyllosilicates and goethite. <i>Chemical Geology</i> , 2015, 416, 19-27.	3.3	29
70	Bacterial cell surface properties: Role of loosely bound extracellular polymeric substances (LB-EPS). <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 600-607.	5.0	74
71	Relative Attachment Behaviors of Pathogenic and Nonpathogenic <i>Escherichia coli</i> to Soil Particles: Influence of Soil Physicochemical Properties. <i>Geomicrobiology Journal</i> , 2015, 32, 594-601.	2.0	5
72	Fullerene C ₇₀ -TiO ₂ hybrids with enhanced photocatalytic activity under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21090-21098.	10.3	38

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73	Contrasting effects of extracellular polymeric substances on the surface characteristics of bacterial pathogens and cell attachment to soil particles. <i>Chemical Geology</i> , 2015, 410, 79-88.	3.3	21
74	<i>Streptococcus suis</i> sorption on agricultural soils: Role of soil physico-chemical properties. <i>Chemosphere</i> , 2015, 119, 52-58.	8.2	12
75	Soil Colloids and Minerals Modulate Metabolic Activity of <i>Pseudomonas putida</i> Measured Using Microcalorimetry. <i>Geomicrobiology Journal</i> , 2014, 31, 590-596.	2.0	46
76	Effects of Solution Chemistry on Bacterial Adhesion with Phyllosilicates and Goethite Explained by the Extended DLVO Theory. <i>Geomicrobiology Journal</i> , 2014, 31, 419-430.	2.0	21
77	Interfacial interaction between methyl parathion-degrading bacteria and minerals is important in biodegradation. <i>Biodegradation</i> , 2014, 25, 1-9.	3.0	22
78	In situ ATR-FTIR study on the adhesion of <i>Pseudomonas putida</i> to Red soil colloids. <i>Journal of Soils and Sediments</i> , 2014, 14, 504-514.	3.0	29
79	Biodegradation of methyl parathion in the presence of goethite: The effect of <i>Pseudomonas</i> sp. Z1 adhesion. <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 294-299.	3.9	9
80	Adhesion of <i>Pseudomonas putida</i> onto kaolinite at different growth phases. <i>Chemical Geology</i> , 2014, 390, 1-8.	3.3	39
81	Biosorption mechanisms of Cu(II) by extracellular polymeric substances from <i>Bacillus subtilis</i> . <i>Chemical Geology</i> , 2014, 386, 143-151.	3.3	54
82	Combined Application of Rice Straw and Fungus <i>Penicillium Chrysogenum</i> to Remediate Heavy-Metal-Contaminated Soil. <i>Soil and Sediment Contamination</i> , 2014, 23, 328-338.	1.9	13
83	Estimation of enzymatic, microbial, and chemical properties in Brown soil by microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 969-988.	3.6	17
84	Adhesion of bacterial pathogens to soil colloidal particles: Influences of cell type, natural organic matter, and solution chemistry. <i>Water Research</i> , 2014, 53, 35-46.	11.3	84
85	The effect of extracellular polymeric substances on the adhesion of bacteria to clay minerals and goethite. <i>Chemical Geology</i> , 2013, 360-361, 118-125.	3.3	60
86	Deposition and Survival of <i>Escherichia coli</i> O157:H7 on Clay Minerals in a Parallel Plate Flow System. <i>Environmental Science & Technology</i> , 2013, 47, 1896-1903.	10.0	97
87	Oxidative Enzymes, the Ultimate Regulator: Implications for Factors Affecting Their Efficiency. <i>Journal of Environmental Quality</i> , 2013, 42, 1779-1790.	2.0	21
88	Influence of Feedstock and Pyrolysis Temperature of Biochar Amendments on Transport of <i>Escherichia coli</i> in Saturated and Unsaturated Soil. <i>Environmental Science & Technology</i> , 2012, 46, 8097-8105.	10.0	104
89	Reactions between bacterial exopolymers and goethite: A combined macroscopic and spectroscopic investigation. <i>Water Research</i> , 2012, 46, 5613-5620.	11.3	99
90	Sorption of <i>Streptococcus suis</i> on various soil particles from an Alfisol and effects on pathogen metabolic activity. <i>European Journal of Soil Science</i> , 2012, 63, 558-564.	3.9	18

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91	Interactions of pathogens <i>Escherichia coli</i> and <i>Streptococcus suis</i> with clay minerals. <i>Applied Clay Science</i> , 2012, 69, 37-42.	5.2	46
92	Initial adhesion of <i>Bacillus subtilis</i> on soil minerals as related to their surface properties. <i>European Journal of Soil Science</i> , 2012, 63, 457-466.	3.9	78
93	Adsorption of <i>Pseudomonas putida</i> on soil particle size fractions: effects of solution chemistry and organic matter. <i>Journal of Soils and Sediments</i> , 2012, 12, 143-149.	3.0	37
94	Influence of extracellular polymeric substances (EPS) on Cd adsorption by bacteria. <i>Environmental Pollution</i> , 2011, 159, 1369-1374.	7.5	181
95	Role of extracellular polymeric substances in Cu(II) adsorption on <i>Bacillus subtilis</i> and <i>Pseudomonas putida</i> . <i>Bioresource Technology</i> , 2011, 102, 1137-1141.	9.6	116
96	Effects of low-molecular-weight organic ligands and phosphate on adsorption of <i>Pseudomonas putida</i> by clay minerals and iron oxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 147-151.	5.0	46
97	Preferential adsorption of extracellular polymeric substances from bacteria on clay minerals and iron oxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 122-127.	5.0	164
98	Bioavailability of methyl parathion adsorbed on clay minerals and iron oxide. <i>Journal of Hazardous Materials</i> , 2011, 185, 1032-1036.	12.4	15
99	Binding characteristics of copper and cadmium by cyanobacterium <i>Spirulina platensis</i> . <i>Journal of Hazardous Materials</i> , 2011, 190, 810-815.	12.4	95
100	Effects of Temperature, pH and Salt Concentrations on the Adsorption of <i>Bacillus subtilis</i> on Soil Clay Minerals Investigated by Microcalorimetry. <i>Geomicrobiology Journal</i> , 2011, 28, 686-691.	2.0	26
101	Fractionation of copper and cadmium and their binding with soil organic matter in a contaminated soil amended with organic materials. <i>Journal of Soils and Sediments</i> , 2010, 10, 973-982.	3.0	133
102	Microcalorimetric and potentiometric titration studies on the adsorption of copper by <i>P. putida</i> and <i>B. thuringiensis</i> and their composites with minerals. <i>Journal of Hazardous Materials</i> , 2010, 181, 1031-1038.	12.4	59
103	<i>Pseudomonas putida</i> adhesion to goethite: Studied by equilibrium adsorption, SEM, FTIR and ITC. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 80, 79-85.	5.0	71
104	Microcalorimetric and potentiometric titration studies on the adsorption of copper by extracellular polymeric substances (EPS), minerals and their composites. <i>Bioresource Technology</i> , 2010, 101, 5774-5779.	9.6	110
105	Poultry Manure Compost Alleviates the Phytotoxicity of Soil Cadmium: Influence on Growth of Pakchoi (<i>Brassica chinensis</i> L.). <i>Pedosphere</i> , 2010, 20, 63-70.	4.0	79
106	Role of bacteria in the adsorption and binding of DNA on soil colloids and minerals. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 69, 26-30.	5.0	19
107	Conformation, activity and proteolytic stability of acid phosphatase on clay minerals and soil colloids from an Alfisol. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 279-283.	5.0	18
108	Microcalorimetric assessment of microbial activity in long-term fertilization experimental soils of Southern China. <i>FEMS Microbiology Ecology</i> , 2009, 70, 186-195.	2.7	27

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109	Immobilization and phytotoxicity of Cd in contaminated soil amended with chicken manure compost. <i>Journal of Hazardous Materials</i> , 2009, 163, 563-567.	12.4	214
110	Impact of cell wall structure on the behavior of bacterial cells in the binding of copper and cadmium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 347, 50-55.	4.7	60
111	Adsorption and biodegradation of carbaryl on montmorillonite, kaolinite and goethite. <i>Applied Clay Science</i> , 2009, 46, 102-108.	5.2	64
112	Interaction of <i>Pseudomonas putida</i> with kaolinite and montmorillonite: A combination study by equilibrium adsorption, ITC, SEM and FTIR. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 49-55.	5.0	146
113	Binding and degradation of DNA on montmorillonite coated by hydroxyl aluminum species. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 62, 299-306.	5.0	37
114	Isothermal Microcalorimetry: A Review of Applications in Soil and Environmental Sciences. <i>Pedosphere</i> , 2007, 17, 137-145.	4.0	42
115	Adsorption and Insecticidal Activity of Toxin from <i>Bacillus thuringiensis</i> on Hectorite. <i>Pedosphere</i> , 2007, 17, 513-521.	4.0	11
116	Effects of low-molecular-weight organic ligands and phosphate on DNA adsorption by soil colloids and minerals. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 54, 53-59.	5.0	44
117	Adsorption of <i>Pseudomonas putida</i> on clay minerals and iron oxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 54, 217-221.	5.0	162
118	Soil colloids-bound plasmid DNA: Effect on transformation of <i>E. coli</i> and resistance to DNase I degradation. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1007-1013.	8.8	31
119	Amplification of plasmid DNA bound on soil colloidal particles and clay minerals by the polymerase chain reaction. <i>Journal of Environmental Sciences</i> , 2007, 19, 1326-1329.	6.1	7
120	Interactions of DNA with Clay Minerals and Soil Colloidal Particles and Protection against Degradation by DNase. <i>Environmental Science & Technology</i> , 2006, 40, 2971-2976.	10.0	151
121	Microcalorimetric studies of the effects of MgCl ₂ concentrations and pH on the adsorption of DNA on montmorillonite, kaolinite and goethite. <i>Applied Clay Science</i> , 2006, 32, 147-152.	5.2	61
122	Microcalorimetric studies on the adsorption of DNA by soil colloidal particles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 49, 49-54.	5.0	39
123	Adsorption of DNA on clay minerals and various colloidal particles from an Alfisol. <i>Soil Biology and Biochemistry</i> , 2006, 38, 471-476.	8.8	157
124	Adsorption, desorption and activities of acid phosphatase on various colloidal particles from an Ultisol. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 45, 209-214.	5.0	54