List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stratification Structure of Sludge Flocs with Implications to Dewaterability. Environmental Science & Technology, 2008, 42, 7944-7949.	4.6	333
2	Insights into extracellular polymeric substances ofÂcyanobacterium Microcystis aeruginosa using fractionation procedure and parallel factor analysis. Water Research, 2013, 47, 2005-2014.	5.3	251
3	Improving manure nutrient management towards sustainable agricultural intensification in China. Agriculture, Ecosystems and Environment, 2015, 209, 34-46.	2.5	244
4	Characteristics of extracellular polymeric substances (EPS) fractions from excess sludges and their effects on bioflocculability. Bioresource Technology, 2009, 100, 3193-3198.	4.8	225
5	Extracellular proteins, polysaccharides and enzymes impact on sludge aerobic digestion after ultrasonic pretreatment. Water Research, 2008, 42, 1925-1934.	5.3	185
6	Novel insights into sludge dewaterability by fluorescence excitation–emission matrix combined with parallel factor analysis. Water Research, 2010, 44, 797-806.	5.3	177
7	Changes in biochemical and microbiological parameters during the period of rapid composting of dairy manure with rice chaff. Bioresource Technology, 2011, 102, 9040-9049.	4.8	167
8	Mineral Availability as a Key Regulator of Soil Carbon Storage. Environmental Science & Technology, 2017, 51, 4960-4969.	4.6	167
9	Binding of Organic Ligands with Al(III) in Dissolved Organic Matter from Soil: Implications for Soil Organic Carbon Storage. Environmental Science & Technology, 2012, 46, 6102-6109.	4.6	159
10	Heavy metal concentrations and arsenic speciation in animal manure composts in China. Waste Management, 2017, 64, 333-339.	3.7	158
11	Combination of two-dimensional correlation spectroscopy and parallel factor analysis to characterize the binding of heavy metals with DOM in lake sediments. Journal of Hazardous Materials, 2013, 263, 412-421.	6.5	155
12	A review on halloysite-based adsorbents to remove pollutants in water and wastewater. Journal of Molecular Liquids, 2018, 269, 855-868.	2.3	150
13	Harzianolide, a novel plant growth regulator and systemic resistance elicitor from Trichoderma harzianum. Plant Physiology and Biochemistry, 2013, 73, 106-113.	2.8	141
14	In situ observation of the growth of biofouling layer in osmotic membrane bioreactors by multiple fluorescence labeling and confocal laser scanning microscopy. Water Research, 2015, 75, 188-200.	5.3	126
15	Effect of proteins, polysaccharides, and particle sizes on sludge dewaterability. Journal of Environmental Sciences, 2009, 21, 83-88.	3.2	124
16	Multiple Fluorescence Labeling and Two Dimensional FTIR–13C NMR Heterospectral Correlation Spectroscopy to Characterize Extracellular Polymeric Substances in Biofilms Produced during Composting. Environmental Science & Technology, 2011, 45, 9224-9231.	4.6	116
17	Response of the bacterial diversity and soil enzyme activity in particle-size fractions of Mollisol after different fertilization in a long-term experiment. Biology and Fertility of Soils, 2014, 50, 901-911.	2.3	110
18	Investigation on extracellular polymeric substances from mucilaginous cyanobacterial blooms in eutrophic freshwater lakes. Chemosphere, 2013, 93, 75-81.	4.2	106

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19	Functional Groups Determine Biochar Properties (pH and EC) as Studied by Two-Dimensional 13C NMR Correlation Spectroscopy. PLoS ONE, 2013, 8, e65949.	1.1	106
20	PARAFAC modeling of fluorescence excitationâ^'emission spectra for rapid assessment of compost maturity. Bioresource Technology, 2010, 101, 8244-8251.	4.8	104
21	Toward understanding the mechanism of improving the production of volatile fatty acids from activated sludge at pH 10.0. Water Research, 2008, 42, 4637-4644.	5.3	102
22	Fenton chemistry and reactive oxygen species in soil: Abiotic mechanisms of biotic processes, controls and consequences for carbon and nutrient cycling. Earth-Science Reviews, 2021, 214, 103525.	4.0	99
23	Towards understanding the role of extracellular polymeric substances in cyanobacterial Microcystis aggregation and mucilaginous bloom formation. Chemosphere, 2014, 117, 815-822.	4.2	89
24	Different analysis techniques for fluorescence excitation–emission matrix spectroscopy to assess compost maturity. Chemosphere, 2011, 82, 1202-1208.	4.2	84
25	Enzyme activities in activated sludge flocs. Applied Microbiology and Biotechnology, 2007, 77, 605-612.	1.7	82
26	Ten-year long-term organic fertilization enhances carbon sequestration and calcium-mediated stabilization of aggregate-associated organic carbon in a reclaimed Cambisol. Geoderma, 2019, 355, 113880.	2.3	78
27	Rusty sink of rhizodeposits and associated keystone microbiomes. Soil Biology and Biochemistry, 2020, 147, 107840.	4.2	73
28	Exploring the interactions and binding sites between Cd and functional groups in soil using two-dimensional correlation spectroscopy and synchrotron radiation based spectromicroscopies. Journal of Hazardous Materials, 2017, 326, 18-25.	6.5	66
29	Assessment of the maturity and biological parameters of compost produced from dairy manure and rice chaff by excitation–emission matrix fluorescence spectroscopy. Bioresource Technology, 2012, 110, 330-337.	4.8	63
30	Fate of biopolymers during rapeseed meal and wheat bran composting as studied by two-dimensional correlation spectroscopy in combination with multiple fluorescence labeling techniques. Bioresource Technology, 2012, 105, 88-94.	4.8	62
31	Insights into complexation of dissolved organic matter and Al(III) and nanominerals formation in soils under contrasting fertilizations using two-dimensional correlation spectroscopy and high resolution-transmission electron microscopy techniques. Chemosphere, 2014, 111, 441-449.	4.2	59
32	In situ measurement of perfluoroalkyl substances in aquatic systems using diffusive gradients in thin-films technique. Water Research, 2018, 144, 162-171.	5.3	59
33	Optimization of the production of poly-Î ³ -glutamic acid by Bacillus amyloliquefaciens C1 in solid-state fermentation using dairy manure compost and monosodium glutamate production residues as basic substrates. Bioresource Technology, 2011, 102, 7548-7554.	4.8	57
34	The role of nonâ€crystalline <scp>Fe</scp> in the increase of <scp>SOC</scp> after longâ€term organic manure application to the red soil of <scp>s</scp> outhern <scp>C</scp> hina. European Journal of Soil Science, 2013, 64, 797-804.	1.8	57
35	Heterogeneity in metal binding by individual fluorescent components in a eutrophic algae-rich lake. Ecotoxicology and Environmental Safety, 2013, 98, 266-272.	2.9	56
36	Impact of agricultural fertilization practices on organo-mineral associations in four long-term field experiments: Implications for soil C sequestration. Science of the Total Environment, 2019, 651, 591-600.	3.9	56

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37	Redox interface-associated organo-mineral interactions: A mechanism for C sequestration under a rice-wheat cropping system. Soil Biology and Biochemistry, 2018, 120, 12-23.	4.2	55
38	Fluorescence excitation–emission spectroscopy with regional integration analysis for assessment of compost maturity. Waste Management, 2011, 31, 1729-1736.	3.7	50
39	Production and characterization of acidophilic xylanolytic enzymes from Penicillium oxalicum GZ-2. Bioresource Technology, 2012, 123, 117-124.	4.8	50
40	Enzyme extraction by ultrasound from sludge flocs. Journal of Environmental Sciences, 2009, 21, 204-210.	3.2	49
41	Contrasting effects of inorganic and organic fertilisation regimes on shifts in Fe redox bacterial communities in red soils. Soil Biology and Biochemistry, 2018, 117, 56-67.	4.2	48
42	Using new hetero-spectral two-dimensional correlation analyses and synchrotron-radiation-based spectromicroscopy to characterize binding of Cu to soil dissolved organic matter. Environmental Pollution, 2017, 223, 457-465.	3.7	46
43	In situ visualisation and characterisation of the capacity of highly reactive minerals to preserve soil organic matter (SOM) in colloids at submicron scale. Chemosphere, 2015, 138, 225-232.	4.2	45
44	Root exudate chemistry affects soil carbon mobilization via microbial community reassembly. Fundamental Research, 2022, 2, 697-707.	1.6	41
45	Longâ€Term Fertilization Practices Alter Aluminum Fractions and Coordinate State in Soil Colloids. Soil Science Society of America Journal, 2014, 78, 2083-2089.	1.2	40
46	Fungus-initiated catalytic reactions at hyphal-mineral interfaces drive iron redox cycling and biomineralization. Geochimica Et Cosmochimica Acta, 2019, 260, 192-203.	1.6	40
47	Effects of ultrasonic pretreatment on sludge dewaterability and extracellular polymeric substances distribution in mesophilic anaerobic digestion. Journal of Environmental Sciences, 2010, 22, 474-480.	3.2	39
48	New strategies for submicron characterization the carbon binding of reactive minerals in long-term contrasting fertilized soils: implications for soil carbon storage. Biogeosciences, 2016, 13, 3607-3618.	1.3	38
49	DOM as an indicator of occurrence and risks of antibiotics in a city-river-reservoir system with multiple pollution sources. Science of the Total Environment, 2019, 686, 276-289.	3.9	36
50	Effect of ultrasonic pretreatment on anaerobic digestion and its sludge dewaterability. Journal of Environmental Sciences, 2011, 23, 1472-1478.	3.2	35
51	Humic-Like Substances from Different Compost Extracts Could Significantly Promote Cucumber Growth. Pedosphere, 2012, 22, 815-824.	2.1	33
52	An iron-dependent burst of hydroxyl radicals stimulates straw decomposition and CO2 emission from soil hotspots: Consequences of Fenton or Fenton-like reactions. Geoderma, 2020, 375, 114512.	2.3	32
53	Fungal Nanophase Particles Catalyze Iron Transformation for Oxidative Stress Removal and Iron Acquisition. Current Biology, 2020, 30, 2943-2950.e4.	1.8	32
54	Arbuscular mycorrhizal fungi and goethite promote carbon sequestration via hyphal-aggregate mineral interactions. Soil Biology and Biochemistry, 2021, 162, 108417.	4.2	31

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55	Total and available metal concentrations in soils from six long-term fertilization sites across China. Environmental Science and Pollution Research, 2018, 25, 31666-31678.	2.7	30
56	Effects of long-term fertilization on calcium-associated soil organic carbon: Implications for C sequestration in agricultural soils. Science of the Total Environment, 2021, 772, 145037.	3.9	30
57	Enhanced aerobic granulation with extracellular polymeric substances (EPS)-free pellets. Bioresource Technology, 2009, 100, 4611-4615.	4.8	29
58	Fungal biomineralization of montmorillonite and goethite to short-range-ordered minerals. Geochimica Et Cosmochimica Acta, 2016, 191, 17-31.	1.6	28
59	Toward understanding the binding of Zn in soils by two-dimensional correlation spectroscopy and synchrotron-radiation-based spectromicroscopies. Geoderma, 2019, 337, 238-245.	2.3	27
60	Extracellular enzymes in sludge flocs collected at 14 fullâ€scale wastewater treatment plants. Journal of Chemical Technology and Biotechnology, 2008, 83, 1717-1725.	1.6	25
61	Phytotoxicity analysis of extracts from compost and their ability to inhibit soil-borne pathogenic fungi and reduce root-knot nematodes. World Journal of Microbiology and Biotechnology, 2012, 28, 1193-1201.	1.7	24
62	Isolates identification and characteristics of microorganisms in biotrickling filter and biofilter system treating H2S and NH3. Journal of Environmental Sciences, 2007, 19, 859-863.	3.2	23
63	Fungal–Mineral Interactions Modulating Intrinsic Peroxidase-like Activity of Iron Nanoparticles: Implications for the Biogeochemical Cycles of Nutrient Elements and Attenuation of Contaminants. Environmental Science & Technology, 2022, 56, 672-680.	4.6	23
64	Iron minerals inhibit the growth of <i>Pseudomonas brassicacearum</i> J12 via a free-radical mechanism: implications for soil carbon storage. Biogeosciences, 2019, 16, 1433-1445.	1.3	22
65	Enhanced storage stability of aerobic granules seeded with pellets. Bioresource Technology, 2010, 101, 8031-8037.	4.8	21
66	Carbon Sequestration Potential Promoted by Oxalate Extractable Iron Oxides through Organic Fertilization. Soil Science Society of America Journal, 2017, 81, 1359-1370.	1.2	21
67	Filterability and extracellular polymeric substances of aerobic granules for AGMBR process. Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 479-483.	2.7	20
68	Intrinsic enzymeâ€like activity of magnetite particles is enhanced by cultivation with <i>Trichoderma guizhouense</i> . Environmental Microbiology, 2021, 23, 893-907.	1.8	20
69	Molybdenum Bioavailability and Asymbiotic Nitrogen Fixation in Soils are Raised by Iron (Oxyhydr)oxide-Mediated Free Radical Production. Environmental Science & Technology, 2021, 55, 14979-14989.	4.6	20
70	Highly reactive nanomineral assembly in soil colloids: Implications for paddy soil carbon storage. Science of the Total Environment, 2020, 703, 134728.	3.9	19
71	Biological removal of cadmium from biogas residues during vermicomposting, and the effect of earthworm hydrolysates on Trichoderma guizhouense sporulation. Bioresource Technology, 2020, 312, 123635.	4.8	19
72	Unexpected bulk density and microstructures response to long-term pig manure application in a Ferralic Cambisol Soil: Implications for rebuilding a healthy soil. Soil and Tillage Research, 2020, 203, 104668.	2.6	19

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73	Spectroscopic Evidence of the Improvement of Reactive Iron Mineral Content in Red Soil by Long-Term Application of Swine Manure. PLoS ONE, 2016, 11, e0146364.	1.1	19
74	Enhancement of lipopeptides production in a two-temperature-stage process under SSF conditions and its bioprocess in the fermenter. Bioresource Technology, 2013, 127, 209-215.	4.8	18
75	Coupling thermophilic composting and vermicomposting processes to remove Cr from biogas residues and produce high value-added biofertilizers. Bioresource Technology, 2021, 329, 124869.	4.8	18
76	Reconsideration of anaerobic fermentation from excess sludge at pH 10.0 as an eco-friendly process. Journal of Hazardous Materials, 2010, 175, 510-517.	6.5	17
77	Vertical variations of soil carbon under different land uses in a karst critical zone observatory (CZO), SW China. Geoderma, 2022, 412, 115741.	2.3	17
78	Microbial community mediates hydroxyl radical production in soil slurries by iron redox transformation. Water Research, 2022, 220, 118689.	5.3	16
79	Rapid and Accurate Evaluation of the Quality of Commercial Organic Fertilizers Using Near Infrared Spectroscopy. PLoS ONE, 2014, 9, e88279.	1.1	15
80	Strategy for Microscale Characterization of Soil Mineralâ€Organic Associations by Synchrotronâ€Radiationâ€Based FTIR Technology. Soil Science Society of America Journal, 2018, 82, 1583-1591.	1.2	15
81	Influence of biodiversity and iron availability on soil peroxide: Implications for soil carbon stabilization and storage. Land Degradation and Development, 2020, 31, 463-472.	1.8	15
82	Silicon Effects on Biomass Carbon and Phytolith-Occluded Carbon in Grasslands Under High-Salinity Conditions. Frontiers in Plant Science, 2020, 11, 657.	1.7	15
83	Nanozyme-mediated elemental biogeochemical cycling and environmental effects. Science China Earth Sciences, 2021, 64, 1015-1025.	2.3	15
84	Hydrolytic Amino Acids Employed as a Novel Organic Nitrogen Source for the Preparation of PGPF-Containing Bio-Organic Fertilizer for Plant Growth Promotion and Characterization of Substance Transformation during BOF Production. PLoS ONE, 2016, 11, e0149447.	1.1	14
85	Mechanisms of potentially toxic metal removal from biogas residues via vermicomposting revealed by synchrotron radiation-based spectromicroscopies. Waste Management, 2020, 113, 80-87.	3.7	14
86	Weathered Microplastics Induce Silver Nanoparticle Formation. Environmental Science and Technology Letters, 2022, 9, 179-185.	3.9	14
87	Soil ionomic and enzymatic responses and correlations to fertilizations amended with and without organic fertilizer in long-term experiments. Scientific Reports, 2016, 6, 24559.	1.6	13
88	A new strategy for assessing the binding microenvironments in intact soil microaggregates. Soil and Tillage Research, 2019, 189, 123-130.	2.6	13
89	Investigation of carbon dynamics in rhizosphere by synchrotron radiation-based Fourier transform infrared combined with two dimensional correlation spectroscopy. Science of the Total Environment, 2021, 762, 143078.	3.9	13
90	Further Insights into Metal-DOM Interaction: Consideration of Both Fluorescent and Non-Fluorescent Substances. PLoS ONE, 2014, 9, e112272.	1.1	12

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91	Response of the population size and community structure of Paenibacillus spp. to different fertilization regimes in a long-term experiment of red soil. Plant and Soil, 2014, 383, 87-98.	1.8	12
92	Extracellular Polymeric Substances (EPS) and Extracellular Enzymes in Aerobic Granules. Drying Technology, 2010, 28, 910-915.	1.7	11
93	Optimization of Trichoderma harzianum T-E5 biomass and determining the degradation sequence of biopolymers by FTIR in solid-state fermentation. Industrial Crops and Products, 2013, 49, 619-627.	2.5	10
94	Preservation of organic carbon promoted by iron redox transformation in a rice-wheat cropping system. Applied Soil Ecology, 2020, 147, 103425.	2.1	10
95	Fouling Layer with Fractionated Extracellular Polymeric Substances of Activated Sludge. Separation Science and Technology, 2010, 45, 993-1002.	1.3	9
96	Towards a mechanistic understanding of microbial and nonmicrobial mediated topsoil organic carbon sequestration efficiency in a rice-wheat cropping system. Applied Soil Ecology, 2022, 170, 104259.	2.1	8
97	Structure of chemical components in different compost extracts characterized by chromatogram and spectroscopy analysis and its influence on plant growth promotion. Journal of Material Cycles and Waste Management, 2012, 14, 325-333.	1.6	7
98	Long-Term Fertilization Modifies the Structures of Soil Fulvic Acids and Their Binding Capability with Al. PLoS ONE, 2014, 9, e105567.	1.1	7
99	Molecular Trade-Offs between Lattice Oxygen and Oxygen Vacancy Drive Organic Pollutant Degradation in Fungal Biomineralized Exoskeletons. Environmental Science & Technology, 2022, 56, 8132-8141.	4.6	7
100	Breakage and Regrowth of Sludge Flocs by Removal and Readdition of Extracellular Polymeric Substances Fractions. Environmental Engineering Science, 2009, 26, 1533-1540.	0.8	5
101	Root Exudates and Microbial Communities Drive Mineral Dissolution and the Formation of Nano-size Minerals in Soils: Implications for Soil Carbon Storage. Soil Biology, 2018, , 143-166.	0.6	5
102	Organic amendments stimulate co-precipitation of ferrihydrite and dissolved organic matter in soils. Geoderma, 2021, 402, 115352.	2.3	5
103	Rejuvenation of iron oxides enhances carbon sequestration by the †iron gate' and †enzyme latch' mechanisms in a rice-wheat cropping system. Science of the Total Environment, 2022, 839, 156209.	3.9	5
104	Characteristics and kinetics of ammonia and N2O emissions of aged refuse irrigated from landfill leachate. Waste Management, 2013, 33, 1229-1236.	3.7	4
105	Compost Process and Organic Fertilizers Application in China. , 2016, , .		4
106	Aromatic Moieties from Matured Chicken Manure and Agriculture Residues Compost Suppress Growth of Lepidium sativum L. and Trichoderma harzianum. Pedosphere, 2013, 23, 826-834.	2.1	2
107	Visualizing Mineral-Associated Organic Matters in Long-Term Fertilization Treated Soils by NanoSIMS and SR-FTIR. Frontiers in Soil Science, 2022, 2, .	0.8	2
108	A comparison of organic matters responsible for immersed ultrafiltration membranes fouling in drinking water treatment. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 339-345.	0.8	1

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109	矿物纳米é¶ä»‹å¯¼çš"åfç´ç"Ÿç‰©åœ°çƒåŒ–å¦å¾ªçޝåŠçŽ¯å¢ƒæ•ˆåº". SCIENTIA SINICA Terrae, 2021	, 6.1 , 120	3-1213.
110	Review of: "Multiple soil map comparison highlights challenges for predicting topsoil organic carbon concentration at national scale". Qeios, 0, , .	0.0	0