

List of Publications by Year in descending order

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98
papers

5,264
citations

61857

43
h-index

91712

69
g-index

103
all docs

103
docs citations

103
times ranked

6032
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term effects of municipal solid waste compost application on soil enzyme activities and microbial biomass. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1907-1913.	4.2	500
2	Physical, chemical, and biochemical mechanisms of soil organic matter stabilization under conservation tillage systems: A central role for microbes and microbial by-products in C sequestration. <i>Soil Biology and Biochemistry</i> , 2013, 57, 124-134.	4.2	197
3	Molecular and Quantitative Analysis of Metal Ion Binding to Humic Acids from Sewage Sludge and Sludge-Amended Soils by Fluorescence Spectroscopy. <i>Environmental Science & Technology</i> , 2006, 40, 917-923.	4.6	160
4	A comparative survey of recent results on humic-like fractions in organic amendments and effects on native soil humic substances. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1244-1262.	4.2	159
5	Microbial activity in pig slurry-amended soils under semiarid conditions. <i>Soil Biology and Biochemistry</i> , 2004, 36, 1577-1585.	4.2	148
6	Direct observation of permafrost degradation and rapid soil carbon loss in tundra. <i>Nature Geoscience</i> , 2019, 12, 627-631.	5.4	137
7	Soil resources and element stocks in drylands to face global issues. <i>Scientific Reports</i> , 2018, 8, 13788.	1.6	126
8	Detection of Copper(II) and zinc(II) binding to humic acids from pig slurry and amended soils by fluorescence spectroscopy. <i>Environmental Pollution</i> , 2006, 143, 212-220.	3.7	118
9	Effects of sewage sludge amendment on humic acids and microbiological properties of a semiarid Mediterranean soil. <i>Biology and Fertility of Soils</i> , 2004, 39, 320-328.	2.3	108
10	Aridity and reduced soil micronutrient availability in global drylands. <i>Nature Sustainability</i> , 2019, 2, 371-377.	11.5	105
11	Enzyme activities in vineyard soils long-term treated with copper-based fungicides. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2119-2127.	4.2	104
12	Influence of pig manure and its biochar on soil CO ₂ emissions and soil enzymes. <i>Ecological Engineering</i> , 2016, 95, 19-24.	1.6	102
13	In situ remediation of metal-contaminated soils with organic amendments: Role of humic acids in copper bioavailability. <i>Chemosphere</i> , 2010, 79, 844-849.	4.2	95
14	Response of different soil organic matter pools to biochar and organic fertilizers. <i>Agriculture, Ecosystems and Environment</i> , 2016, 225, 150-159.	2.5	93
15	Binding of polycyclic aromatic hydrocarbons by humic acids formed during composting. <i>Environmental Pollution</i> , 2009, 157, 257-263.	3.7	90
16	Soil microbial respiration adapts to ambient temperature in global drylands. <i>Nature Ecology and Evolution</i> , 2019, 3, 232-238.	3.4	89
17	Biochemical properties and barley yield in a semiarid Mediterranean soil amended with two kinds of sewage sludge. <i>Applied Soil Ecology</i> , 2009, 42, 18-24.	2.1	88
18	Unraveling the long-term stabilization mechanisms of organic materials in soils by physical fractionation and NMR spectroscopy. <i>Agriculture, Ecosystems and Environment</i> , 2013, 171, 9-18.	2.5	87

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19	Humic acid-like fractions in raw and vermicomposted winery and distillery wastes. <i>Geoderma</i> , 2007, 139, 397-406.	2.3	85
20	Availability and transfer to grain of As, Cd, Cu, Ni, Pb and Zn in a barley agri-system: Impact of biochar, organic and mineral fertilizers. <i>Agriculture, Ecosystems and Environment</i> , 2016, 219, 171-178.	2.5	84
21	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021, 7, .	4.7	83
22	Role of Humification Processes in Recycling Organic Wastes of Various Nature and Sources as Soil Amendments. <i>Clean - Soil, Air, Water</i> , 2007, 35, 26-41.	0.7	82
23	Carbon mineralization in an arid soil amended with thermally-dried and composted sewage sludges. <i>Geoderma</i> , 2007, 137, 497-503.	2.3	79
24	Lettuce Response to Phosphorus Fertilization with Struvite Recovered from Municipal Wastewater. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 426-430.	0.5	77
25	The effect of sewage sludge biochar on peat-based growing media. <i>Biological Agriculture and Horticulture</i> , 2017, 33, 40-51.	0.5	77
26	Short-term effects of organic municipal wastes on wheat yield, microbial biomass, microbial activity, and chemical properties of soil. <i>Biology and Fertility of Soils</i> , 2012, 48, 205-216.	2.3	74
27	The effect of pruning waste and biochar addition on brown peat based growing media properties. <i>Scientia Horticulturae</i> , 2016, 199, 142-148.	1.7	73
28	Greenhouse Evaluation of Struvite and Sludges from Municipal Wastewater Treatment Works as Phosphorus Sources for Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8206-8212.	2.4	72
29	Organic matter humification by vermicomposting of cattle manure alone and mixed with two-phase olive pomace. <i>Bioresource Technology</i> , 2008, 99, 5085-5089.	4.8	70
30	Use of thermal analysis techniques (TG&DSC) for the characterization of diverse organic municipal waste streams to predict biological stability prior to land application. <i>Waste Management</i> , 2012, 32, 158-164.	3.7	70
31	Olive Pomace Amendment in Mediterranean Conditions:Â Effect on Soil and Humic Acid Properties and Wheat (<i>Triticum turgidum</i> L.) Yield. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6730-6737.	2.4	65
32	Effects of amendment with treated and untreated olive oil mill wastewaters on soil properties, soil humic substances and wheat yield. <i>Geoderma</i> , 2007, 138, 144-152.	2.3	65
33	Evolution of the fulvic acid fractions during co-composting of olive oil mill wastewater sludge and tree cuttings. <i>Bioresource Technology</i> , 2007, 98, 1964-1971.	4.8	64
34	Acid&Base Properties of Humic and Fulvic Acids Formed during Composting. <i>Environmental Science & Technology</i> , 2005, 39, 7141-7146.	4.6	59
35	Compositional and functional features of humic acids from organic amendments and amended soils in Minnesota, USA. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1355-1365.	4.2	59
36	Relation between biochar properties and effects on seed germination and plant development. <i>Biological Agriculture and Horticulture</i> , 2016, 32, 237-247.	0.5	53

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37	Effects of Pig Slurry Application on Soils and Soil Humic Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 4867-4874.	2.4	50
38	Advances in the determination of humification degree in peat since : Applications in geochemical and paleoenvironmental studies. <i>Earth-Science Reviews</i> , 2018, 185, 163-178.	4.0	50
39	Soil fulvic acid properties as a means to assess the use of pig slurry amendment. <i>Soil and Tillage Research</i> , 2003, 74, 179-190.	2.6	49
40	Carbon dioxide emissions from semi-arid soils amended with biochar alone or combined with mineral and organic fertilizers. <i>Science of the Total Environment</i> , 2014, 482-483, 1-7.	3.9	49
41	Distribution and thermal stability of physically and chemically protected organic matter fractions in soils across different ecosystems. <i>Biology and Fertility of Soils</i> , 2018, 54, 671-681.	2.3	48
42	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020, 11, 4721.	5.8	47
43	Choice of pyrolysis parameters for urban wastes affects soil enzymes and plant germination in a Mediterranean soil. <i>Science of the Total Environment</i> , 2018, 634, 1308-1314.	3.9	46
44	Copper(II) complexation of humic acids from the first generation of EUROSOLS by total luminescence spectroscopy. <i>Geoderma</i> , 2005, 125, 177-186.	2.3	45
45	Organic matter in degraded agricultural soils amended with composted and thermally-dried sewage sludges. <i>Science of the Total Environment</i> , 2007, 378, 75-80.	3.9	42
46	Influence of extractant on quality and trace elements content of peat humic acids. <i>Talanta</i> , 2007, 73, 820-830.	2.9	40
47	Influence of humified organic matter on copper behavior in acid polluted soils. <i>Environmental Pollution</i> , 2010, 158, 3634-3641.	3.7	37
48	Fluorescence characterization of metal ion-humic acid interactions in soils amended with composted municipal solid wastes. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 2133-2140.	1.9	36
49	Long-term effects of pig slurry on barley yield and N use efficiency under semiarid Mediterranean conditions. <i>European Journal of Agronomy</i> , 2013, 44, 78-86.	1.9	36
50	Application of a set of complementary techniques to understand how varying the proportion of two wastes affects humic acids produced by vermicomposting. <i>Waste Management</i> , 2015, 35, 81-88.	3.7	36
51	Hydrothermal carbonization as a sustainable strategy for integral valorisation of apple waste. <i>Bioresource Technology</i> , 2020, 309, 123395.	4.8	36
52	Copper(II) complexation by humic and fulvic acids from pig slurry and amended and non-amended soils. <i>Chemosphere</i> , 2005, 61, 711-716.	4.2	33
53	Hydrochars from Biosolids and Urban Wastes as Substitute Materials for Peat. <i>Land Degradation and Development</i> , 2017, 28, 2268-2276.	1.8	33
54	Water-soluble organic matter and biological activity of a degraded soil amended with pig slurry. <i>Science of the Total Environment</i> , 2007, 378, 101-103.	3.9	32

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55	The role of Fe(III) in soil organic matter stabilization in two size fractions having opposite features. <i>Science of the Total Environment</i> , 2019, 653, 667-674.	3.9	30
56	Density-based fractionation of soil organic matter: effects of heavy liquid and heavy fraction washing. <i>Scientific Reports</i> , 2019, 9, 10146.	1.6	28
57	Carbon Thaw Rate Doubles When Accounting for Subsidence in a Permafrost Warming Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005528.	1.3	28
58	Effects of long-term soil amendment with sewage sludges on soil humic acid thermal and molecular properties. <i>Chemosphere</i> , 2008, 73, 1838-1844.	4.2	27
59	Organic matter humification in olive oil mill wastewater by abiotic catalysis with manganese(IV) oxide. <i>Bioresource Technology</i> , 2008, 99, 8528-8531.	4.8	26
60	Proton Binding by Humic and Fulvic Acids from Pig Slurry and Amended Soils. <i>Journal of Environmental Quality</i> , 2005, 34, 1131-1137.	1.0	25
61	Iron Speciation in Organic Matter Fractions Isolated from Soils Amended with Biochar and Organic Fertilizers. <i>Environmental Science & Technology</i> , 2020, 54, 5093-5101.	4.6	24
62	Cocomposting of Sludge from Olive Oil Mill Wastewater Mixed with Tree Cuttings. <i>Compost Science and Utilization</i> , 2005, 13, 217-226.	1.2	23
63	A Comprehensive Method for Fractionating Soil Organic Matter Not Protected and Protected from Decomposition by Physical and Chemical Mechanisms. <i>Clean - Soil, Air, Water</i> , 2012, 40, 134-139.	0.7	23
64	Ecosystem type effects on the stabilization of organic matter in soils: Combining size fractionation with sequential chemical extractions. <i>Geoderma</i> , 2019, 353, 423-434.	2.3	23
65	Proton Binding to Humic Acids from Organic Amendments and Amended Soils by the NICA-Donnan Model. <i>Environmental Science & Technology</i> , 2005, 39, 6692-6697.	4.6	22
66	Microbial activity in pig slurry-amended soils under aerobic incubation. <i>Biodegradation</i> , 2007, 18, 159-165.	1.5	22
67	Effects of municipal solid waste compost and sewage sludge on chemical and spectroscopic properties of humic acids from a sandy Haplic Podzol and a clay loam Calcic Vertisol in Portugal. <i>Waste Management</i> , 2008, 28, 2183-2191.	3.7	21
68	Biotic responses buffer warming-induced soil organic carbon loss in Arctic tundra. <i>Global Change Biology</i> , 2018, 24, 4946-4959.	4.2	21
69	Iron(III) fate after complexation with soil organic matter in fine silt and clay fractions: An EXAFS spectroscopic approach. <i>Soil and Tillage Research</i> , 2020, 200, 104617.	2.6	21
70	Long-term effects of amendment with liquid swine manure on proton binding behavior of soil humic substances. <i>Chemosphere</i> , 2006, 65, 1321-1329.	4.2	20
71	Soil fulvic acid characteristics and proton binding behavior as affected by long-term municipal waste compost amendment under semi-arid environment. <i>Geoderma</i> , 2008, 146, 363-369.	2.3	20
72	Effects of Composted and Thermally Dried Sewage Sludges on Soil and Soil Humic Acid Properties. <i>Pedosphere</i> , 2009, 19, 281-291.	2.1	20

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73	Tundra Underlain By Thawing Permafrost Persistently Emits Carbon to the Atmosphere Over 15 Years of Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006044.	1.3	19
74	DNA occurrence in organic matter fractions isolated from amended, agricultural soils. <i>Applied Soil Ecology</i> , 2018, 130, 134-142.	2.1	18
75	Variability in As, Ca, Cr, K, Mn, Sr, and Ti concentrations among humic acids isolated from peat using NaOH, Na ₄ P ₂ O ₇ and NaOH+Na ₄ P ₂ O ₇ solutions. <i>Journal of Hazardous Materials</i> , 2009, 167, 987-994.	6.5	17
76	Predicting long-term organic carbon dynamics in organically amended soils using the CQESTR model. <i>Journal of Soils and Sediments</i> , 2012, 12, 486-493.	1.5	17
77	Soil element coupling is driven by ecological context and atomic mass. <i>Ecology Letters</i> , 2021, 24, 319-326.	3.0	17
78	Response of soil chemical properties, enzyme activities and microbial communities to biochar application and climate change in a Mediterranean agroecosystem. <i>Geoderma</i> , 2022, 407, 115536.	2.3	17
79	Soil Organic Matter in Dryland Ecosystems. , 2018, , 39-70.		16
80	Fe(II)-catalyzed transformation of Fe (oxyhydr)oxides across organic matter fractions in organically amended soils. <i>Science of the Total Environment</i> , 2020, 748, 141125.	3.9	15
81	Acidâ€base properties of humic substances from composted and thermally-dried sewage sludges and amended soils as determined by potentiometric titration and the NICA-Donnan model. <i>Chemosphere</i> , 2007, 69, 630-635.	4.2	14
82	Fluorescence analysis of copper(II) and zinc(II) binding behaviour of fulvic acids from pig slurry and amended soils. <i>European Journal of Soil Science</i> , 2007, 58, 900-908.	1.8	14
83	Effects of municipal waste compost and sewage sludge on proton binding behavior of humic acids from Portuguese sandy and clay loam soils. <i>Bioresource Technology</i> , 2008, 99, 2141-2147.	4.8	14
84	Respiration parameters determined by the ISO-17155 method as potential indicators of copper pollution in vineyard soils after long-term fungicide treatment. <i>Science of the Total Environment</i> , 2013, 447, 25-31.	3.9	14
85	Biocrusts buffer against the accumulation of soil metallic nutrients induced by warming and rainfall reduction. <i>Communications Biology</i> , 2020, 3, 325.	2.0	12
86	Dynamics and Model Fitting of Nitrogen Transformations in Pig Slurry Amended Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 2137-2152.	0.6	10
87	Does biochar interfere with standard methods for determining soil microbial biomass and phenotypic community structure?. <i>Soil Biology and Biochemistry</i> , 2015, 81, 143-146.	4.2	10
88	The structure and function of soil archaea across biomes. <i>Journal of Proteomics</i> , 2021, 237, 104147.	1.2	10
89	Effects of microplastics on crop nutrition in fertile soils and interaction with arbuscular mycorrhizal fungi. , 2022, 1, 66-72.		10
90	Advanced techniques for characterization of organic matter from anaerobically digested grapemarc distillery effluents and amended soils. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 2079-2089.	1.3	9

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91	Short-term Stabilization of Organic Matter in Physically, Chemically, and Biochemically Protected Pools in Soils Amended with Municipal Wastes. <i>Clean - Soil, Air, Water</i> , 2014, 42, 487-493.	0.7	8
92	Iron speciation in soil size fractions under different land uses. <i>Geoderma</i> , 2022, 418, 115842.	2.3	8
93	Effects of Long-Term Sewage Sludge Amendment on the Composition, Structure and Proton Binding Activity of Soil Fulvic Acids. <i>Clean - Soil, Air, Water</i> , 2007, 35, 480-487.	0.7	7
94	Aridity and geochemical drivers of soil micronutrient and contaminant availability in European drylands. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	6
95	Origin of dissolved organic matter in the Harz Mountains (Germany): A thermally assisted hydrolysis and methylation (THM-GC-MS) study. <i>Geoderma</i> , 2020, 378, 114635.	2.3	5
96	Hydrothermal treatment as a complementary tool to control the invasive Pampas grass (<i>Cortaderia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	4
97	Synergistic effects of biochar and biostimulants on nutrient and toxic element uptake by pepper in contaminated soils. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 167-174.	1.7	3
98	Structure and function of bacterial metaproteomes across biomes. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108331.	4.2	3