

Stefania Mattana

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,148
citations

567281

15
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

1926
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought-resistant fungi control soil organic matter decomposition and its response to temperature. <i>Global Change Biology</i> , 2011, 17, 1475-1486.	9.5	335
2	Medium-term effects of corn biochar addition on soil biota activities and functions in a temperate soil cropped to corn. <i>Soil Biology and Biochemistry</i> , 2014, 72, 152-162.	8.8	141
3	Are soil "water functions affected by biochar application?. <i>Geoderma</i> , 2015, 249-250, 1-11.	5.1	113
4	Biochars provoke diverse soil mesofauna reproductive responses in laboratory bioassays. <i>European Journal of Soil Biology</i> , 2014, 60, 104-111.	3.2	90
5	Gasifier biochar effects on nutrient availability, organic matter mineralization, and soil fauna activity in a multi-year Mediterranean trial. <i>Agriculture, Ecosystems and Environment</i> , 2016, 215, 30-39.	5.3	55
6	Ecological risk assessment of organic waste amendments using the species sensitivity distribution from a soil organisms test battery. <i>Environmental Pollution</i> , 2008, 155, 227-236.	7.5	54
7	Sewage sludge processing determines its impact on soil microbial community structure and function. <i>Applied Soil Ecology</i> , 2014, 75, 150-161.	4.3	42
8	Litter VOCs induce changes in soil microbial biomass C and N and largely increase soil CO ₂ efflux. <i>Plant and Soil</i> , 2012, 360, 163-174.	3.7	40
9	Changes in soil bacterial community triggered by drought-induced gap succession preceded changes in soil C stocks and quality. <i>Ecology and Evolution</i> , 2012, 2, 3016-3031.	1.9	39
10	Biochar application and summer temperatures reduce N ₂ O and enhance CH ₄ emissions in a Mediterranean agroecosystem: Role of biologically-induced anoxic microsites. <i>Science of the Total Environment</i> , 2019, 685, 1075-1086.	8.0	39
11	Climate-induced die-off affects plant "soil "microbe ecological relationship and functioning. <i>FEMS Microbiology Ecology</i> , 2015, 91, 1-12.	2.7	27
12	Partitioning between atmospheric deposition and canopy microbial nitrification into throughfall nitrate fluxes in a Mediterranean forest. <i>Journal of Ecology</i> , 2020, 108, 626-640.	4.0	20
13	Biochar application as a win-win strategy to mitigate soil nitrate pollution without compromising crop yields: a case study in a Mediterranean calcareous soil. <i>Journal of Soils and Sediments</i> , 2020, 20, 220-233.	3.0	19
14	Biochar addition rate determines contrasting shifts in soil nematode trophic groups in outdoor mesocosms: An appraisal of underlying mechanisms. <i>Applied Soil Ecology</i> , 2021, 158, 103788.	4.3	19
15	Wetting process and soil water retention of a minesoil amended with composted and thermally dried sludges. <i>Geoderma</i> , 2010, 156, 399-409.	5.1	15
16	Soil wetting-drying and water-retention properties in a mine-soil treated with composted and thermally-dried sludges. <i>European Journal of Soil Science</i> , 2011, 62, 696-708.	3.9	15
17	Bioassays prove the suitability of mining debris mixed with sewage sludge for land reclamation purposes. <i>Journal of Soils and Sediments</i> , 2010, 10, 30-44.	3.0	13
18	Effects of biochar addition to estuarine sediments. <i>Journal of Soils and Sediments</i> , 2016, 16, 2482-2491.	3.0	13

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19	Fresh biochar application provokes a reduction of nitrate which is unexplained by conventional mechanisms. <i>Science of the Total Environment</i> , 2021, 755, 142430.	8.0	13
20	Impact of fertilization with pig slurry on the isotopic composition of nitrate retained in soil and leached to groundwater in agricultural areas. <i>Applied Geochemistry</i> , 2021, 125, 104832.	3.0	10
21	Seasonal drought in Mediterranean soils mainly changes microbial C and N contents whereas chronic drought mainly impairs the capacity of microbes to retain P. <i>Soil Biology and Biochemistry</i> , 2022, 165, 108515.	8.8	10
22	Nonylphenol causes shifts in microbial communities and nitrogen mineralization in soil microcosms. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 395-403.	6.0	9
23	Substrate-Induced Respiration of a Sandy Soil Treated with Different Types of Organic Waste. <i>Communications in Soil Science and Plant Analysis</i> , 2010, 41, 408-423.	1.4	7
24	Long-term effects of gasification biochar application on soil functions in a Mediterranean agroecosystem: Higher addition rates sequester more carbon but pose a risk to soil faunal communities. <i>Science of the Total Environment</i> , 2021, 801, 149580.	8.0	5
25	A Battery of Soil and Plant Indicators of NBS Environmental Performance in the Context of Global Change. <i>Sustainability</i> , 2021, 13, 1913.	3.2	3
26	Chemical and isotopic characterization of nitrate retained and leached from soil after manure fertilization-by lysimeter experiments. <i>E3S Web of Conferences</i> , 2019, 98, 12016.	0.5	2