Stefania Mattana

List of Publications by Year
in descending order

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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	Seasonal drought in Mediterranean soils mainly changes microbial C and N contents whereas chronic drought mainly impairs the capacity of microbes to retain P. Soil Biology and Biochemistry, 2022, 165, 108515.	8.8	10
2	Fresh biochar application provokes a reduction of nitrate which is unexplained by conventional mechanisms. Science of the Total Environment, 2021, 755, 142430.	8.0	13
3	Biochar addition rate determines contrasting shifts in soil nematode trophic groups in outdoor mesocosms: An appraisal of underlying mechanisms. Applied Soil Ecology, 2021, 158, 103788.	4.3	19
4	Impact of fertilization with pig slurry on the isotopic composition of nitrate retained in soil and leached to groundwater in agricultural areas. Applied Geochemistry, 2021, 125, 104832.	3.0	10
5	A Battery of Soil and Plant Indicators of NBS Environmental Performance in the Context of Global Change. Sustainability, 2021, 13, 1913.	3.2	3
6	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. Science of the Total Environment, 2021, 801, 149580.	8.0	5
7	Partitioning between atmospheric deposition and canopy microbial nitrification into throughfall nitrate fluxes in a Mediterranean forest. Journal of Ecology, 2020, 108, 626-640.	4.0	20
8	Biochar application as a win-win strategy to mitigate soil nitrate pollution without compromising crop yields: a case study in a Mediterranean calcareous soil. Journal of Soils and Sediments, 2020, 20, 220-233.	3.0	19
9	Chemical and isotopic characterization of nitrate retained and leached from soil after manure fertilization-by lysimeter experiments. E3S Web of Conferences, 2019, 98, 12016.	0.5	2
10	Nonylphenol causes shifts in microbial communities and nitrogen mineralization in soil microcosms. Ecotoxicology and Environmental Safety, 2019, 181, 395-403.	6.0	9
11	Biochar application and summer temperatures reduce N2O and enhance CH4 emissions in a Mediterranean agroecosystem: Role of biologically-induced anoxic microsites. Science of the Total Environment, 2019, 685, 1075-1086.	8.0	39
12	Effects of biochar addition to estuarine sediments. Journal of Soils and Sediments, 2016, 16, 2482-2491.	3.0	13
13	Gasifier biochar effects on nutrient availability, organic matter mineralization, and soil fauna activity in a multi-year Mediterranean trial. Agriculture, Ecosystems and Environment, 2016, 215, 30-39.	5.3	55
14	Climate-induced die-off affects plantâ€“soilâ€“microbe ecological relationship and functioning. FEMS Microbiology Ecology, 2015, 91, 1-12.	2.7	27
15	Are soilâ€“water functions affected by biochar application?. Geoderma, 2015, 249-250, 1-11.	5.1	113
16	Medium-term effects of corn biochar addition on soil biota activities and functions in a temperate soil cropped to corn. Soil Biology and Biochemistry, 2014, 72, 152-162.	8.8	141
17	Biochars provoke diverse soil mesofauna reproductive responses inÂlaboratory bioassays. European Journal of Soil Biology, 2014, 60, 104-111.	3.2	90
18	Sewage sludge processing determines its impact on soil microbial community structure and function. Applied Soil Ecology, 2014, 75, 150-161.	4.3	42

#	Article	IF	Citations
19	Changes in soil bacterial community triggered by droughtâ€induced gap succession preceded changes in soil C stocks and quality. Ecology and Evolution, 2012, 2, 3016-3031.	1.9	39
20	Litter VOCs induce changes in soil microbial biomass C and N and largely increase soil CO2 efflux. Plant and Soil, 2012, 360, 163-174.	3.7	40
21	Soil wetting-drying and water-retention properties in a mine-soil treated with composted and thermally-dried sludges. European Journal of Soil Science, 2011, 62, 696-708.	3.9	15
22	Drought-resistant fungi control soil organic matter decomposition and its response to temperature. Global Change Biology, 2011, 17, 1475-1486.	9.5	335
23	Bioassays prove the suitability of mining debris mixed with sewage sludge for land reclamation purposes. Journal of Soils and Sediments, 2010, 10, 30-44.	3.0	13
24	Substrateâ€induced Respiration of a Sandy Soil Treated with Different Types of Organic Waste. Communications in Soil Science and Plant Analysis, 2010, 41, 408-423.	1.4	7
25	Wetting process and soil water retention of a minesoil amended with composted and thermally dried sludges. Geoderma, 2010, 156, 399-409.	5.1	15
26	Ecological risk assessment of organic waste amendments using the species sensitivity distribution from a soil organisms test battery. Environmental Pollution, 2008, 155, 227-236.	7.5	54