

Luigi Badalucco

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,561
citations

257450

24
h-index

315739

38
g-index

52
all docs

52
docs citations

52
times ranked

1907
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of liming on some chemical, biochemical, and microbiological properties of acid soils under spruce (<i>Picea abies</i> L.). <i>Biology and Fertility of Soils</i> , 1992, 14, 76-83.	4.3	113
2	Long-term Tillage and Cropping System Effects on Chemical and Biochemical Characteristics of Soil Organic Matter in a Mediterranean Semi-arid Environment. <i>Land Degradation and Development</i> , 2015, 26, 45-53.	3.9	111
3	Biochemical characterization of soil organic compounds extracted by 0.5 M K ₂ SO ₄ before and after chloroform fumigation. <i>Soil Biology and Biochemistry</i> , 1992, 24, 569-578.	8.8	83
4	Effects of compost input and tillage intensity on soil microbial biomass and activity under Mediterranean conditions. <i>Biology and Fertility of Soils</i> , 2011, 47, 63-70.	4.3	66
5	Changes in chemical and biological soil properties as induced by anthropogenic disturbance: A case study of an agricultural soil under recurrent flooding by wastewaters. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2069-2080.	8.8	61
6	Activity and degradation of streptomycin and cycloheximide in soil. <i>Biology and Fertility of Soils</i> , 1994, 18, 334-340.	4.3	58
7	Dynamics of soil organic carbon pools after agricultural abandonment. <i>Geoderma</i> , 2014, 235-236, 191-198.	5.1	58
8	Some European green roof norms and guidelines through the lens of biodiversity: Do ecoregions and plant traits also matter?. <i>Ecological Engineering</i> , 2018, 115, 15-26.	3.6	56
9	Soil Carbon, Nitrogen and Phosphorus Dynamics as Affected by Solarization Alone or Combined with Organic Amendment. <i>Plant and Soil</i> , 2006, 279, 307-325.	3.7	48
10	Long-term no-tillage application increases soil organic carbon, nitrous oxide emissions and faba bean (<i>Vicia faba</i> L.) yields under rain-fed Mediterranean conditions. <i>Science of the Total Environment</i> , 2018, 639, 350-359.	8.0	47
11	Use of sonication for measuring acid phosphatase activity in soil. <i>Soil Biology and Biochemistry</i> , 2000, 32, 825-832.	8.8	46
12	Effectiveness of antibiotics to distinguish the contributions of fungi and bacteria to net nitrogen mineralization, nitrification and respiration. <i>Soil Biology and Biochemistry</i> , 1993, 25, 1771-1778.	8.8	45
13	Soil chemical and biochemical properties of a salt-marsh alluvial Spanish area after long-term reclamation. <i>Biology and Fertility of Soils</i> , 2009, 45, 691-700.	4.3	45
14	Soil carbon dynamics as affected by long-term contrasting cropping systems and tillages under semi-arid Mediterranean climate. <i>Applied Soil Ecology</i> , 2014, 73, 140-147.	4.3	39
15	Enhancing a Transition to a Circular Economy in the Water Sector: The EU Project WIDER UPTAKE. <i>Water (Switzerland)</i> , 2021, 13, 946.	2.7	39
16	Synthesis and characterization of an acid phosphatase-polyresorcinol complex. <i>Soil Biology and Biochemistry</i> , 1996, 28, 1155-1161.	8.8	35
17	Ammonium adsorption, desorption and recovery by acid and alkaline treated zeolite. <i>Bioresource Technology</i> , 2021, 341, 125812.	9.6	34
18	Long-term effects of contrasting tillage on soil organic carbon, nitrous oxide and ammonia emissions in a Mediterranean Vertisol under different crop sequences. <i>Science of the Total Environment</i> , 2018, 619-620, 18-27.	8.0	32

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19	Reversing agriculture from intensive to sustainable improves soil quality in a semiarid South Italian soil. <i>Biology and Fertility of Soils</i> , 2010, 46, 481-489.	4.3	31
20	Microbial biomass and anthrone-reactive carbon in soils with different organic matter contents. <i>Soil Biology and Biochemistry</i> , 1990, 22, 899-904.	8.8	29
21	Short-term nitrogen reactions following the addition of urea to a grass-legume association. <i>Soil Biology and Biochemistry</i> , 1990, 22, 549-553.	8.8	29
22	Plant litter decomposition and microbial characteristics in volcanic soils (Mt Etna, Sicily) at different stages of development. <i>Biology and Fertility of Soils</i> , 2007, 43, 461-469.	4.3	29
23	Soil microbial biomass carbon and fatty acid composition of earthworm <i>Lumbricus rubellus</i> after exposure to engineered nanoparticles. <i>Biology and Fertility of Soils</i> , 2015, 51, 261-269.	4.3	29
24	Effects of afforestation with four unmixed plant species on the soil-water interactions in a semiarid Mediterranean region (Sicily, Italy). <i>Journal of Soils and Sediments</i> , 2012, 12, 1222-1230.	3.0	27
25	Natural Organic Compounds in Soil Solution: Potential Role as Soil Quality Indicators. <i>Current Organic Chemistry</i> , 2013, 17, 2991-2997.	1.6	27
26	Effects of tilling methods on soil penetration resistance, organic carbon and water stable aggregates in a vineyard of semiarid Mediterranean environment. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	26
27	Soil Quality Indicators as Affected by Shallow Tillage in a Vineyard Grown in a Semiarid Mediterranean Environment. <i>Land Degradation and Development</i> , 2017, 28, 1038-1046.	3.9	25
28	Potential Effects of Essential Oils Extracted from Mediterranean Aromatic Plants on Target Weeds and Soil Microorganisms. <i>Plants</i> , 2020, 9, 1289.	3.5	24
29	Do physical properties of soil affect chloroform efficiency in lysing microbial biomass?. <i>Soil Biology and Biochemistry</i> , 1997, 29, 1135-1142.	8.8	22
30	Respiratory responses of soil micro-organisms to simple and complex organic substrates. <i>Biology and Fertility of Soils</i> , 2003, 37, 96-101.	4.3	22
31	Effect of cobalt and silver nanoparticles and ions on <i>Lumbricus rubellus</i> health and on microbial community of earthworm faeces and soil. <i>Applied Soil Ecology</i> , 2016, 108, 62-71.	4.3	22
32	Soil profile dismantlement by land levelling and deep tillage damages soil functioning but not quality. <i>Applied Soil Ecology</i> , 2016, 107, 298-306.	4.3	17
33	Multiple forms of synthetic pronase-phenolic copolymers. <i>Soil Biology and Biochemistry</i> , 1990, 22, 721-724.	8.8	16
34	Title is missing!. <i>Plant and Soil</i> , 1999, 208, 43-56.	3.7	16
35	Structural diversity and enzyme activity of volcanic soils at different stages of development and response to experimental disturbance. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2182-2185.	8.8	16
36	A method to determine soil DNA and RNA. <i>Soil Biology and Biochemistry</i> , 1986, 18, 275-281.	8.8	14

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37	Water Resource Recovery Facilities (WRRFs): The Case Study of Palermo University (Italy). <i>Water (Switzerland)</i> , 2021, 13, 3413.	2.7	14
38	Wastewaters from citrus processing industry as natural biostimulants for soil microbial community. <i>Journal of Environmental Management</i> , 2020, 273, 111137.	7.8	13
39	Microbial Inoculants on Woody Legumes to Recover a Municipal Landfill Site. <i>Water, Air and Soil Pollution</i> , 2003, 3, 189-199.	0.8	12
40	Long-term effects of contrasting tillage systems on soil C and N pools and on main microbial groups differ by crop sequence. <i>Soil and Tillage Research</i> , 2021, 211, 104995.	5.6	11
41	CPMAS ¹³ C NMR Characterization of Leaves and Litters from the Reafforested Area of Mustigarufi in Sicily (Italy)–!2009-06-15–!2009-12-07–!2010-06-18–!. <i>The Open Magnetic Resonance Journal</i> , 2010, 3, 89-95.	0.5	10
42	Cadmium-induced changes in soil biochemical characteristics of oat (<i>Avena sativa</i> L.) rhizosphere during early growth stages. <i>Soil Research</i> , 2011, 49, 642.	1.1	8
43	Key Biochemical Attributes to Assess Soil Ecosystem Sustainability. , 2012, , 193-227.		8
44	Cellulolytic bacteria joined with deproteinized whey decrease carbon to nitrogen ratio and improve stability of compost from wine production chain by-products. <i>Journal of Environmental Management</i> , 2022, 304, 114194.	7.8	8
45	l-Methionine-sulphoximine affects N mineralisation-immobilisation in soil. <i>Soil Biology and Biochemistry</i> , 1999, 31, 253-259.	8.8	7
46	Responses to increases in temperature of heterotrophic micro-organisms in soils from the maritime Antarctic. <i>Polar Biology</i> , 2015, 38, 1153-1160.	1.2	6
47	Changes in inorganic N and CO ₂ evolution in soil induced by l-methionine-sulphoximine. <i>Soil Biology and Biochemistry</i> , 1995, 27, 1345-1351.	8.8	5
48	Available carbon in soil determined from substrate utilization kinetics: comparison of substrates and soil amendments. <i>Journal of Microbiological Methods</i> , 1997, 30, 43-47.	1.6	5
49	Native and planted forest species determine different carbon and nitrogen pools in Arenosol developed on Holocene deposits from a coastal Mediterranean area (Tuscany, Italy). <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	5
50	Bioindicators and nutrient availability through whole soil profile under orange groves after long-term different organic fertilizations. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	5
51	Protease and deaminase activities in wheat rhizosphere and their relation to bacterial and protozoan populations. <i>Biology and Fertility of Soils</i> , 1996, 23, 99-104.	4.3	4
52	Roadmapping the Transition to Water Resource Recovery Facilities: The Two Demonstration Case Studies of Corleone and Marineo (Italy). <i>Water (Switzerland)</i> , 2022, 14, 156.	2.7	3