

# Claudio Mondini

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

3,725  
citations

136950

32  
h-index

128289

60  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil microbial biomass is triggered into activity by trace amounts of substrate. <i>Soil Biology and Biochemistry</i> , 2001, 33, 1163-1170.	8.8	403
2	Role of biochar as an additive in organic waste composting. <i>Bioresource Technology</i> , 2018, 247, 1155-1164.	9.6	316
3	Land application of biosolids. Soil response to different stabilization degree of the treated organic matter. <i>Waste Management</i> , 2004, 24, 325-332.	7.4	174
4	Bioavailability and effects of heavy metals on soil microbial biomass survival during laboratory incubation. <i>Biology and Fertility of Soils</i> , 1995, 19, 103-108.	4.3	170
5	Investigation of the use of honey bees and honey bee products to assess heavy metals contamination. <i>Environmental Monitoring and Assessment</i> , 1996, 43, 1-9.	2.7	142
6	Short term effects of bioenergy by-products on soil C and N dynamics, nutrient availability and biochemical properties. <i>Agriculture, Ecosystems and Environment</i> , 2012, 160, 3-14.	5.3	142
7	Biochar amendment before or after composting affects compost quality and N losses, but not P plant uptake. <i>Journal of Environmental Management</i> , 2016, 168, 200-209.	7.8	141
8	Enzymatic activity as a parameter for the characterization of the composting process. <i>Soil Biology and Biochemistry</i> , 2004, 36, 1587-1594.	8.8	135
9	Mineralization dynamics and biochemical properties during initial decomposition of plant and animal residues in soil. <i>Applied Soil Ecology</i> , 2009, 41, 118-127.	4.3	134
10	Influence of inorganic and organic fertilization on soil microbial biomass, metabolic quotient and heavy metal bioavailability. <i>Biology and Fertility of Soils</i> , 1999, 28, 371-376.	4.3	133
11	Soil microbial biomass activation by trace amounts of readily available substrate. <i>Biology and Fertility of Soils</i> , 2006, 42, 542-549.	4.3	110
12	Greenhouse gas emissions from organic waste composting. <i>Environmental Chemistry Letters</i> , 2015, 13, 223-238.	16.2	103
13	Biochar, compost and biochar-compost blend as options to recover nutrients and sequester carbon. <i>Journal of Environmental Management</i> , 2018, 218, 465-476.	7.8	96
14	Soil application of meat and bone meal. Short-term effects on mineralization dynamics and soil biochemical and microbiological properties. <i>Soil Biology and Biochemistry</i> , 2008, 40, 462-474.	8.8	92
15	Chemical properties and hydrolytic enzyme activities for the characterisation of two-phase olive mill wastes composting. <i>Bioresource Technology</i> , 2008, 99, 4255-4262.	9.6	89
16	Fluorescein diacetate hydrolysis, respiration and microbial biomass in freshly amended soils. <i>Biology and Fertility of Soils</i> , 2008, 44, 885-890.	4.3	85
17	Enhanced soil toxic metal fixation in iron (hydr)oxides by redox cycles. <i>Geoderma</i> , 2007, 140, 164-175.	5.1	83
18	Agronomic Evaluation of Biochar, Compost and Biochar-Blended Compost across Different Cropping Systems: Perspective from the European Project FERTIPLUS. <i>Agronomy</i> , 2019, 9, 225.	3.0	72

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19	Response of <i>leguminosae</i> to cadmium exposure. <i>Journal of Plant Nutrition</i> , 1993, 16, 2001-2012.	1.9	66
20	An Integrated Chemical, Thermal, and Microbiological Approach to Compost Stability Evaluation. <i>Journal of Environmental Quality</i> , 2003, 32, 2379-2386.	2.0	60
21	The mineralisation of fresh and humified soil organic matter by the soil microbial biomass. <i>Waste Management</i> , 2008, 28, 716-722.	7.4	51
22	Biochemical changes and GHG emissions during composting of lignocellulosic residues with different N-rich by-products. <i>Chemosphere</i> , 2012, 88, 196-203.	8.2	49
23	Nitrous oxide and carbon dioxide emissions during initial decomposition of animal by-products applied as fertilisers to soils. <i>Geoderma</i> , 2010, 157, 235-242.	5.1	48
24	Response of microbial biomass to air-drying and rewetting in soils and compost. <i>Geoderma</i> , 2002, 105, 111-124.	5.1	46
25	Plant and animal wastes composting: Effects of the N source on process performance. <i>Bioresource Technology</i> , 2009, 100, 3097-3106.	9.6	44
26	Analysis of intercellular cadmium forms in roots and leaves of bush bean. <i>Journal of Plant Nutrition</i> , 1996, 19, 527-533.	1.9	42
27	Biofiltration at Composting Facilities: Effectiveness for Bioaerosol Control. <i>Environmental Science &amp; Technology</i> , 2003, 37, 4299-4303.	10.0	42
28	Role of biochar in promoting circular economy in the agriculture sector. Part 1: A review of the biochar roles in soil N, P and K cycles. <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	4.6	41
29	Implication of soil C sequestration on sustainable agriculture and environment. <i>Waste Management</i> , 2008, 28, 678-684.	7.4	40
30	Potential of olive mill wastes for soil C sequestration. <i>Waste Management</i> , 2008, 28, 767-773.	7.4	40
31	Spatially explicit modelling of changes in soil organic C in agricultural soils in Italy, 2001-2100: Potential for compost amendment. <i>Agriculture, Ecosystems and Environment</i> , 2012, 153, 24-32.	5.3	36
32	Community level physiological profiling as a tool to evaluate compost maturity: a kinetic approach. <i>European Journal of Soil Biology</i> , 2003, 39, 141-148.	3.2	33
33	Greenhouse gas emissions and carbon sink capacity of amended soils evaluated under laboratory conditions. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1366-1374.	8.8	31
34	Modification of the RothC model to simulate soil C mineralization of exogenous organic matter. <i>Biogeosciences</i> , 2017, 14, 3253-3274.	3.3	29
35	Immobilisation of soil toxic metals by repeated additions of Fe(II) sulphate solution. <i>Geoderma</i> , 2008, 147, 133-140.	5.1	28
36	Environmental and biological controls on CH <sub>4</sub> exchange over an evergreen Mediterranean forest. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 67-79.	4.8	28

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37	Changes during processing in the organic matter of composted and air-dried poultry manure. <i>Bioresource Technology</i> , 1996, 55, 243-249.	9.6	27
38	Glucose promotes the reduction of hexavalent chromium in soil. <i>Geoderma</i> , 2011, 164, 122-127.	5.1	26
39	A simple automated system for measuring soil respiration by gas chromatography. <i>Talanta</i> , 2010, 81, 849-855.	5.5	25
40	Effects of Municipal Waste Leachate on Seed Germination in Soil-Compost Mixtures. <i>Restoration Ecology</i> , 1999, 7, 155-161.	2.9	24
41	Role of biochar in promoting circular economy in the agriculture sector. Part 2: A review of the biochar roles in growing media, composting and as soil amendment. <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	4.6	23
42	Evaluation of Extracted Organic Carbon and Microbial Biomass as Stability Parameters in Ligno-Cellulosic Waste Composts. <i>Journal of Environmental Quality</i> , 2006, 35, 2313-2320.	2.0	22
43	Organic amendment effectively recovers soil functionality in degraded vineyards. <i>European Journal of Agronomy</i> , 2018, 101, 210-221.	4.1	20
44	Heavy Metal Content in Xylem Sap ( <i>Vitis Vinifera</i> ) from Mining and Smelting Areas. <i>Environmental Monitoring and Assessment</i> , 1998, 50, 189-200.	2.7	19
45	Carbon and ninhydrin-reactive nitrogen of the microbial biomass in rewetted compost samples. <i>Communications in Soil Science and Plant Analysis</i> , 1997, 28, 113-122.	1.4	17
46	Suitability of Different Agricultural and Urban Organic Wastes as Feedstocks for the Production of Biochar-Part 1: Physicochemical Characterisation. <i>Sustainability</i> , 2018, 10, 2265.	3.2	17
47	Greenhouse Gas from Organic Waste Composting: Emissions and Measurement. <i>Environmental Chemistry for A Sustainable World</i> , 2015, , 33-70.	0.5	16
48	Fate of nitrogen ( <sup>15</sup> N) from oxamide and urea applied to turf grass: A lysimeter study. <i>Fertilizer Research</i> , 1992, 33, 71-79.	0.5	15
49	The Biorefinery Concept Applied to Bioethanol and Biomethane Production from Manure. <i>Waste and Biomass Valorization</i> , 2018, 9, 2133-2143.	3.4	13
50	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
51	Soil microbial biomass influence on strontium availability in mine soil. <i>Chemical Speciation and Bioavailability</i> , 2013, 25, 119-124.	2.0	11
52	Soil C Storage Potential of Exogenous Organic Matter at Regional Level (Italy) Under Climate Change Simulated by RothC Model Modified for Amended Soils. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	10
53	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
54	Adsorption of linuron and metamitron on soil and peats at two different decomposition stages. <i>Journal of Soil Contamination</i> , 1997, 6, 307-315.	0.5	9

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55	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
56	Behaviour of metolachlor and terbuthylazine in cultivated field lysimeters. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1996, 159, 177-182.	0.4	4
57	Effect of Inoculum Standardization on Community Level Physiological Profiles Of Compost Samples. <i>Compost Science and Utilization</i> , 2005, 13, 27-33.	1.2	4
58	Short-Term Mineralization of Belowground Biomass of Perennial Biomass Crops after Reversion to Arable Land. <i>Agronomy</i> , 2022, 12, 485.	3.0	4
59	Carbon mineralization dynamics in soils amended with meat meals under laboratory conditions. <i>Waste Management</i> , 2008, 28, 707-715.	7.4	3
60	Potential of biochar in composting: effect on process performance and greenhouse gas emissions. <i>Acta Horticulturae</i> , 2016, , 251-256.	0.2	3
61	Biochemical indicators of soil fertility in vineyards with different conservative management systems. <i>BIO Web of Conferences</i> , 2019, 13, 04009.	0.2	3
62	The soils of the eastern hilly area and their suitability to vineyard in Friuli (Italy). <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1993, 156, 163-168.	0.4	0
63	Dynamics of Carbon Mineralization and Biochemical Properties Following Application of Organic Residues to Soil. , 2007, , .		0