Claudio Ciavatta

List of Publications by Year
in descending order

70	2,302	172207	233125
papers	citations	29 h-index	45 g-index

71	71	71	2847
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biostimulant activity of two protein hydrolyzates in the growth and nitrogen metabolism of maize seedlings. Journal of Plant Nutrition and Soil Science, 2009, 172, 237-244.	1.1	258
2	Chemical and microbiological soil quality indicators and their potential to differentiate fertilization regimes in temperate agroecosystems. Applied Soil Ecology, 2013, 64, 32-48.	2.1	129
3	Compost-based growing media: Influence on growth and nutrient use of bedding plants. Bioresource Technology, 2007, 98, 3526-3534.	4.8	126
4	Determination of organic carbon in aqueous extracts of soils and fertilizers. Communications in Soil Science and Plant Analysis, 1991, 22, 795-807.	0.6	107
5	Thermal analysis (TGâ€“DTA) and isotopic characterization (13Câ€“15N) of humic acids from different origins. Applied Geochemistry, 2005, 20, 537-544.	1.4	91
6	Unraveling the long-term stabilization mechanisms of organic materials in soils by physical fractionation and NMR spectroscopy. Agriculture, Ecosystems and Environment, 2013, 171, 9-18.	2.5	87
7	Microplate-scale fluorometric soil enzyme assays as tools to assess soil quality in a long-term agricultural field experiment. Applied Soil Ecology, 2014, 75, 80-85.	2.1	75
8	Evolution of organic matter from sewage sludge and garden trimming during composting. Bioresource Technology, 2004, 91, 163-169.	4.8	74
9	Potential nitrogen mineralization, plant utilization efficiency and soil CO2 emissions following the addition of anaerobic digested slurries. Biomass and Bioenergy, 2011, 35, 4619-4629.	2.9	52
10	Advances in the determination of humification degree in peat since : Applications in geochemical and paleoenvironmental studies. Earth-Science Reviews, 2018, 185, 163-178.	4.0	50
11	SPECTROSCOPIC CHARACTERIZATION OF SOIL ORGANIC MATTER IN LONG-TERM AMENDMENT TRIALS. Soil Science, 2000, 165, 495-504.	0.9	48
12	The evaluation of stability during the composting of different starting materials: Comparison of chemical and biological parameters. Chemosphere, 2011, 83, 41-48.	4.2	47
13	Photoreactivity of humic substances: relationship between fluorescence and singlet oxygen production. Environmental Chemistry Letters, 2011, 9, 447-451.	8.3	47
14	Anaerobic digestion of annual and multi-annual biomass crops. Industrial Crops and Products, 2014, 56, 137-144.	2.5	45
15	Mild alkaline pre-treatments loosen fibre structure enhancing methane production from biomass crops and residues. Biomass and Bioenergy, 2014, 71, 318-329.	2.9	44
16	Effect of humic monomers on the adsorption of sulfamethoxazole sulfonamide antibiotic into a high silica zeolite Y: An interdisciplinary study. Chemosphere, 2016, 155, 444-452.	4.2	44
17	Fertilizing potential and CO2 emissions following the utilization of fresh and composted food-waste anaerobic digestates. Science of the Total Environment, 2020, 698, 134198.	3.9	44
18	TGâ€“DTA, DRIFT and NMR characterisation of humic-like fractions from olive wastes and amended soil. Journal of Hazardous Materials, 2007, 149, 408-417.	6.5	43

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19	Dynamics of Mineral Nitrogen in Soils Treated with Slowâ€Release Fertilizers. Communications in Soil Science and Plant Analysis, 2006, 37, 1-12.	0.6	40
20	Relationship between Photosensitizing and Emission Properties of Peat Humic Acid Fractions Obtained by Tangential Ultrafiltration. Environmental Science & Technology, 2009, 43, 4348-4354.	4.6	39
21	Combined effect of water and organic matter on phosphorus availability in calcareous soils. Nutrient Cycling in Agroecosystems, 2003, 67, 67-74.	1.1	37
22	A standardized method for the determination of the intrinsic carbon and nitrogen mineralization capacity of natural organic matter sources. Soil Biology and Biochemistry, 2007, 39, 1493-1503.	4.2	37
23	Spectroscopic approach for elucidation of structural peculiarities of Andisol soil humic acid fractionated by SEC-PAGE setup. Geoderma, 2007, 142, 210-216.	2.3	35
24	Organic wastes in soils: Biogeochemical and environmental aspects. Soil Biology and Biochemistry, 2007, 39, 1239-1243.	4.2	33
25	Structural differences of Chernozem soil humic acids SECâ€“PAGE fractions revealed by thermal (TGâ€“DTA) and spectroscopic (DRIFT) analyses. Geoderma, 2009, 152, 264-268.	2.3	33
26	Ecological restoration of a copper polluted vineyard: Long-term impact of farmland abandonment on soil bio-chemical properties and microbial communities. Journal of Environmental Management, 2016, 182, 37-47.	3.8	33
27	Phosphorus in Digestate-Based Compost: Chemical Speciation and Plant-Availability. Waste and Biomass Valorization, 2015, 6, 481-493.	1.8	32
28	Photosensitizing Properties of Protein Hydrolysate-Based Fertilizers. Journal of Agricultural and Food Chemistry, 2006, 54, 9160-9167.	2.4	31
29	Humic-like substances extracted from composts can promote the photodegradation of Irgarol 1051 in solar light. Chemosphere, 2006, 62, 1021-1027.	4.2	30
30	Interference of Soluble Silica in the Determination of Orthophosphateâ€Phosphorus. Journal of Environmental Quality, 1990, 19, 761-764.	1.0	25
31	Effect of iron sulphate on the phosphorus speciation from agro-industrial sludge based and sewage sludge based compost. Waste Management, 2017, 69, 353-359.	3.7	25
32	Changes in the functional properties of a sandy loam soil amended with biosolids at different application rates. Geoderma, 2014, 221-222, 40-49.	2.3	24
33	Rates of production of hydroxyl radicals and singlet oxygen from irradiated compost. Chemosphere, 2011, 85, 630-636.	4.2	23
34	Organic wastes as alternative sources of phosphorus for plant nutrition in a calcareous soil. Waste Management, 2019, 93, 34-46.	3.7	23
35	Highly anomalous accumulation rates of C and N recorded by a relic, free-floating peatland in Central Italy. Scientific Reports, 2017, 7, 43040.	1.6	22
36	Changes in soil phenol oxidase activities due to long-term application of compost and mineral N in a walnut orchard. Geoderma, 2018, 316, 70-77.	2.3	22

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37	Fate of15N derived from soil decomposition of abscised leaves and pruning wood from apple (Malus) Tj ETQq1 1 0.784314 rgBT /Ove	0.8	20
38	Relationships between stability, maturity, water-extractable organic matter of municipal sewage sludge composts and soil functionality. Environmental Science and Pollution Research, 2015, 22, 13393-13403.	2.7	19
39	Carbon sequestration and distribution in soil aggregate fractions under Miscanthus and giant reed in the Mediterranean area. Soil and Tillage Research, 2016, 163, 235-242.	2.6	19
40	Activity and stability of jack bean urease in the presence of peat humic acids obtained using different extractants. Biology and Fertility of Soils, 2000, 32, 415-420.	2.3	17
41	Determination of free l- and d-alanine in hydrolysed protein fertilisers by capillary electrophoresis. Journal of Chromatography A, 2003, 985, 463-469.	1.8	17
42	Predicting long-term organic carbon dynamics in organically amended soils using the CQESTR model. Journal of Soils and Sediments, 2012, 12, 486-493.	1.5	17
43	Nitrogen fertilizer value of sewage sludge co-composts. Agronomy for Sustainable Development, 2004, 24, 487-492.	0.8	17
44	Capillary zone electrophoresis of soil humic acid fractions obtained by coupling size-exclusion chromatography and polyacrylamide gel electrophoresis. Journal of Chromatography A, 2003, 983, 263-270.	1.8	16
45	Recycling of Dry-Batch Digestate as Amendment: Soil C and N Dynamics and Ryegrass Nitrogen Utilization Efficiency. Waste and Biomass Valorization, 2014, 5, 823-833.	1.8	16
46	Biodegradable plastics: Effects on functionality and fertility of two different soils. Applied Soil Ecology, 2022, 169, 104216.	2.1	16
47	Ureic Nitrogen Transformation in Multi-Layer Soil Columns Treated with Urease and Nitrification Inhibitors. Journal of Agricultural and Food Chemistry, 2009, 57, 4883-4887.	2.4	14
48	New insights into organic carbon stabilization in soil macroaggregates: An in situ study by optical microscopy and SEM-EDS technique. Geoderma, 2021, 397, 115101.	2.3	14
49	Conventional versus organic management: application of simple and complex indexes to assess soil quality. Agriculture, Ecosystems and Environment, 2021, 322, 107673.	2.5	14
50	Nitrogen release from a 15 N-labeled compost in a sorghum growth experiment. Journal of Plant Nutrition and Soil Science, 2011, 174, 240-248.	1.1	13
51	Rotation and Fertilization Effects on Soil Quality and Yields in a Long Term Field Experiment. Agronomy, 2021, 11, 636.	1.3	11
52	Enhanced substrate degradation and methane yield with maleic acid pre-treatments in biomass crops and residues. Biomass and Bioenergy, 2016, 85, 306-312.	2.9	10
53	Current and residual phosphorous availability from compost in a ryegrass pot test. Science of the Total Environment, 2019, 677, 250-262.	3.9	10
54	Vector analysis in the study of the nutritional status of Philodendron cultivated in compost-based media. Scientia Horticulturae, 2007, 112, 448-455.	1.7	9

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55	Structural and Thermal Investigation of Three Agricultural Biomasses Following Mild-NaOH Pretreatment to Increase Anaerobic Biodegradability. Waste and Biomass Valorization, 2015, 6, 1135-1148.	1.8	9
56	What we talk about when we talk about protein hydrolyzate-based biostimulants. AIMS Agriculture and Food, 2017, 2, 221-232.	0.8	8
57	A multivariate approach to the study of the composting process by means of analytical electrofocusing. Waste Management, 2007, 27, 1072-1082.	3.7	7
58	A Nitrification Inhibitor, Nitrapyrin, Reduces Potential Nitrate Leaching through Soil Columns Treated with Animal Slurries and Anaerobic Digestate. Agronomy, 2020, 10, 865.	1.3	7
59	Soil Response to Agricultural Land Abandonment: A Case Study of a Vineyard in Northern Italy. Agronomy, 2021, 11, 1841.	1.3	7
60	Trace Metal Accumulation and Phytoremediation Potential of Four Crop Plants Cultivated on Pure Sewage Sludge. Agronomy, 2021, 11, 2456.	1.3	7
61	Evaluation of photochemical properties of compost humic-like materials. Bioresource Technology, 2008, 99, 5090-5093.	4.8	6
62	Delivery systems for agriculture: Fe-EDDHSA/CaCO3 hybrid crystals as adjuvants for prevention of iron chlorosis. Chemical Communications, 2018, 54, 1635-1638.	2.2	6
63	Electrofocusing the compost organic matter obtained by coupling SECâ€“PAGE. Bioresource Technology, 2008, 99, 4360-4367.	4.8	5
64	Soil Application of Tannery Land Plaster: Effects on Nitrogen Mineralization and Soil Biochemical Properties. Applied and Environmental Soil Science, 2012, 2012, 1-9.	0.8	5
65	Fate of N in soil amended with 15N-labelled residues of winter cereals combined with an organic N fertiliser. Soil Research, 2016, 54, 182.	0.6	5
66	Fertilizer Potential of Organic-Based Soil Amendments on cv. Sangiovese (V. vinifera L.) Vines: Preliminary Results. Agronomy, 2022, 12, 1604.	1.3	2
67	Soil Respiration and Nitrogen Mineralization Kinetics of Compost and Vinasse Fertilized Soil in an Aerobic Liquid-Based Incubation. Environmental Engineering Science, 2010, 27, 65-73.	0.8	1
68	STABILITY, NITROGEN MINERALIZATION CAPACITY AND AGRONOMIC VALUE OF COMPOST-BASED GROWING MEDIA FOR LETTUCE CULTIVATION. Journal of Plant Nutrition, 2012, 35, 704-725.	0.9	1
69	Rapid assessment of fertilizers manufacturing methods by means of a novel waveguide vector spectrometer. Journal of Agricultural Engineering, 2020, 51, 192-199.	0.7	1
70	Agronomic and environmental implications of using a By-Product of the Intermediate Tanning Processes as Nitrogen Fertilizer. Scientia Agricola, 2017, 74, 250-257.	0.6	0