

Giacomo Certini

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 papers	3,480 citations	25 h-index	58 g-index
76 ext. papers	4,048 ext. citations	5.1 avg, IF	6.06 L-index

#	Paper	IF	Citations
71	Effects of fire on properties of forest soils: a review. <i>Oecologia</i> , 2005 , 143, 1-10	2.9	1624
70	The impact of heavy traffic on forest soils: A review. <i>Forest Ecology and Management</i> , 2015 , 338, 124-138	3.9	247
69	Anthropogenic soils are the golden spikes for the Anthropocene. <i>Holocene</i> , 2011 , 21, 1269-1274	2.6	130
68	Rock fragments in soil support a different microbial community from the fine earth. <i>Soil Biology and Biochemistry</i> , 2004 , 36, 1119-1128	7.5	98
67	Nature and reactivity of charcoal produced and added to soil during wildfire are particle-size dependent. <i>Organic Geochemistry</i> , 2010 , 41, 682-689	3.1	91
66	Cyanobacteria Inoculation Improves Soil Stability and Fertility on Different Textured Soils: Gaining Insights for Applicability in Soil Restoration. <i>Frontiers in Environmental Science</i> , 2018 , 6,	4.8	90
65	Wildfire effects on soil organic matter quantity and quality in two fire-prone Mediterranean pine forests. <i>Geoderma</i> , 2011 , 167-168, 148-155	6.7	84
64	Machinery-induced soil compaction in thinning two pine stands in central Italy. <i>Forest Ecology and Management</i> , 2012 , 285, 38-43	3.9	71
63	Environmental impact assessment of different logging methods in pine forests thinning. <i>Ecological Engineering</i> , 2014 , 70, 429-436	3.9	65
62	The impact of warfare on the soil environment. <i>Earth-Science Reviews</i> , 2013 , 127, 1-15	10.2	61
61	Structural characterization of charcoal size-fractions from a burnt <i>Pinus pinea</i> forest by FT-IR, Raman and surface-enhanced Raman spectroscopies. <i>Journal of Molecular Structure</i> , 2011 , 994, 155-162	3.4	52
60	Fire as a soil-forming factor. <i>Ambio</i> , 2014 , 43, 191-5	6.5	51
59	Direct Determination of Organic Carbon by Dry Combustion in Soils with Carbonates. <i>Communications in Soil Science and Plant Analysis</i> , 2006 , 37, 155-162	1.5	45
58	Temperature response of soil organic matter mineralisation in arctic soil profiles. <i>Soil Biology and Biochemistry</i> , 2015 , 88, 236-246	7.5	35
57	Charcoal mineralisation potential of microbial inocula from burned and unburned forest soil with and without substrate addition. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1472-1478	7.5	35
56	Carbon dioxide efflux and concentrations in two soils under temperate forests. <i>Biology and Fertility of Soils</i> , 2003 , 37, 39-46	6.1	32
55	CP MAS ¹³ C spectral editing and relative quantitation of a soil sample. <i>Solid State Nuclear Magnetic Resonance</i> , 2006 , 30, 81-8	3.1	28

54	Spectral fingerprinting of soil organic matter composition. <i>Organic Geochemistry</i> , 2012 , 46, 127-136	3.1	27
53	Early stages of podzolization under Corsican pine (<i>Pinus nigra</i> Arn. ssp. <i>laricio</i>). <i>Geoderma</i> , 1998 , 83, 103-125	6.7	27
52	Abundance and composition of free and aggregate-occluded carbohydrates and lignin in two forest soils as affected by wildfires of different severity. <i>Geoderma</i> , 2015 , 245-246, 40-51	6.7	26
51	Charcoal and stable soil organic matter as indicators of fire frequency, climate and past vegetation in volcanic soils of Mt. Etna, Sicily. <i>Catena</i> , 2012 , 88, 14-26	5.8	26
50	Relic charcoal hearth soils: A neglected carbon reservoir. Case study at Marsiliana forest, Central Italy. <i>Geoderma</i> , 2018 , 315, 88-95	6.7	26
49	Pedogenesis in the sorted patterned ground of Devon Plateau, Devon Island, Nunavut, Canada. <i>Geoderma</i> , 2006 , 136, 87-106	6.7	25
48	Pedogenesis induced by <i>Genista aetnensis</i> (Biv.) DC. on basaltic pyroclastic deposits at different altitudes, Mt. Etna, Italy. <i>Geoderma</i> , 2003 , 115, 223-243	6.7	25
47	Exchangeable Ca, Mg, and K of rock fragments and fine earth from sandstone and siltstone derived soils and their availability to grass. <i>Journal of Plant Nutrition and Soil Science</i> , 2001 , 164, 309-315	2.3	25
46	Vertical trends of oxalate concentration in two soils under <i>Abies alba</i> from Tuscany (Italy). <i>Journal of Plant Nutrition and Soil Science</i> , 2000 , 163, 173-177	2.3	25
45	The contrasting effect of broom and pine on pedogenic processes in volcanic soils (Mt. Etna, Italy). <i>Geoderma</i> , 2001 , 102, 239-254	6.7	24
44	Application of thermal and spectroscopic techniques to assess fire-induced changes to soil organic matter in a Mediterranean forest. <i>Journal of Geochemical Exploration</i> , 2014 , 143, 174-182	3.8	23
43	The impact of fire on soil-dwelling biota: A review. <i>Forest Ecology and Management</i> , 2021 , 488, 118989	3.9	22
42	The role of soil in storing carbon in tropical rainforests: the case of Ankasa Park, Ghana. <i>Plant and Soil</i> , 2010 , 331, 453-461	4.2	21
41	Soil Organic Matter Quality under Different Land Uses in a Mountain Watershed of Nepal. <i>Soil Science Society of America Journal</i> , 2008 , 72, 1563-1569	2.5	20
40	An updated, expanded, universal definition of soil. <i>Geoderma</i> , 2013 , 192, 378-379	6.7	19
39	Does the preferential microbial colonisation of ferromagnesian minerals affect mineral weathering in soil?. <i>Die Naturwissenschaften</i> , 2008 , 95, 851-8	2	19
38	Weathering of sandstone clasts in a forest soil in Tuscany (Italy). <i>Geoderma</i> , 2003 , 116, 357-372	6.7	16
37	Segregated Ice and Liquefaction Effects on Compaction of Fragipans. <i>Soil Science Society of America Journal</i> , 2004 , 68, 204-214	2.5	16

36	Soil pyrogenic organic matter characterisation by spectroscopic analysis: a study on combustion and pyrolysis residues. <i>Journal of Soils and Sediments</i> , 2015 , 15, 769-780	3.4	15
35	Cyanobacteria inoculation as a potential tool for stabilization of burned soils. <i>Restoration Ecology</i> , 2020 , 28, S106	3.1	15
34	Soil is brown gold in the Emilia-Romagna region, Italy. <i>Land Use Policy</i> , 2014 , 39, 350-357	5.6	14
33	Composition and mean residence time of molecular weight fractions of organic matter extracted from two soils under different forest species. <i>Biogeochemistry</i> , 2004 , 71, 299-316	3.8	14
32	Size fractionation as a tool for separating charcoal of different fuel source and recalcitrance in the wildfire ash layer. <i>Science of the Total Environment</i> , 2017 , 595, 461-471	10.2	13
31	Holocene as Anthropocene. <i>Science</i> , 2015 , 349, 246.1-246	33.3	12
30	Spectroscopic properties of bulk and dichromate oxidation resistant soil organic matter from an anthroposequence in a Mediterranean environment. <i>Plant and Soil</i> , 2007 , 291, 55-65	4.2	11
29	Clues to the genesis of a discontinuously distributed fragipan in the northern Apennines, Italy. <i>Catena</i> , 2007 , 69, 161-169	5.8	11
28	The umbric epipedon in the N Apennines, Italy—An example from the Vallombrosa Forest. <i>Journal of Plant Nutrition and Soil Science</i> , 2005 , 168, 392-398	2.3	11
27	Effects of fire on soil organic matter quality along an altitudinal sequence on Mt. Etna, Sicily. <i>Catena</i> , 2013 , 110, 133-145	5.8	10
26	Physical protection of organic matter in minesoils assessed by low-temperature ashing (LTA). <i>Geoderma</i> , 2017 , 288, 120-129	6.7	9
25	The impact of wildland fires on calcareous Mediterranean pedosystems (Sardinia, Italy) - An integrated multiple approach. <i>Science of the Total Environment</i> , 2018 , 624, 1152-1162	10.2	8
24	Soil organic matter molecular composition and state of decomposition in three locations of the European Arctic. <i>Biogeochemistry</i> , 2017 , 135, 277-292	3.8	8
23	Fire and Tillage as Degrading Factors of Soil Structure in Northern Zagros Oak Forest, West Iran. <i>Land Degradation and Development</i> , 2017 , 28, 1068-1077	4.4	8
22	The response of glomalin-related soil proteins to fire or tillage. <i>Geoderma</i> , 2018 , 329, 65-72	6.7	8
21	Is the Anthropocene really worthy of a formal geologic definition?. <i>Infrastructure Asset Management</i> , 2015 , 2, 77-80	1.8	7
20	Disambiguating the soils of Mars. <i>Planetary and Space Science</i> , 2020 , 186, 104922	2	6
19	Radiocarbon based assessment of soil organic matter contribution to soil respiration in a pine stand of the Campine region, Belgium. <i>Plant and Soil</i> , 2011 , 344, 273-282	4.2	6

18	Immediate- and Short-term Wildfire Impact on Soil Microbial Diversity and Activity in a Mediterranean Forest Soil. <i>Soil Science</i> , 2019 , 184, 35-42	0.9	6
17	Soil carbon dynamics in a Mediterranean forest during the Kyoto Protocol commitment periods. <i>Regional Environmental Change</i> , 2011 , 11, 371-376	4.3	5
16	Do soils exist outside Earth?. <i>Planetary and Space Science</i> , 2010 , 58, 1767-1770	2	5
15	Influence of soil properties on the mortality of silver fir in Tuscany, Italy. <i>European Journal of Forest Research</i> , 2000 , 119, 323-331		5
14	Composition and turnover time of organic matter in soil fractions with different magnetic susceptibility. <i>Geoderma</i> , 2019 , 349, 88-96	6.7	3
13	The State Factor theory of soil formation103-112		3
12	Machinery impact on forest soil porosity. <i>Journal of Terramechanics</i> , 2020 , 91, 65-71	2.2	2
11	Soil formation on Earth and beyond: the role of additional soil-forming factors193-210		2
10	Mixed-Species Plantation Effects on Soil Biological and Chemical Quality and Tree Growth of a Former Agricultural Land. <i>Forests</i> , 2021 , 12, 842	2.8	2
9	Litter decomposition: Little evidence of the home-field advantage in a mountain forest in Italy. <i>Soil Biology and Biochemistry</i> , 2021 , 159, 108300	7.5	2
8	Fire regime and ecosystem responses: adaptive forest management in a changing world (Part 1). <i>International Journal of Wildland Fire</i> , 2019 , 28, 327	3.2	1
7	Radiocarbon-Based Assessment of Heterotrophic Soil Respiration in Two Mediterranean Forests. <i>Ecosystems</i> , 2016 , 19, 62-72	3.9	1
6	Fire regime and ecosystem responses: adaptive forest management in a changing world (Part 2). <i>International Journal of Wildland Fire</i> , 2019 , 28, 471	3.2	1
5	Viewpoint. Charcoal hearth soils should be better accounted for by the WRB and the Soil Taxonomy. <i>Journal of Plant Nutrition and Soil Science</i> , 2020 , 183, 633-636	2.3	1
4	Fog collection as a strategy to sequester carbon in drylands. <i>Science of the Total Environment</i> , 2019 , 657, 391-400	10.2	1
3	Soil is the best testifier of the diachronous dawn of the Anthropocene. <i>Journal of Plant Nutrition and Soil Science</i> , 2021 , 184, 183-186	2.3	1
2	Tree Species Composition in Mixed Plantations Influences Plant Growth, Intrinsic Water Use Efficiency and Soil Carbon Stock. <i>Forests</i> , 2021 , 12, 1251	2.8	1
1	Fire frequency and type regulate the response of soil carbon cycling and storage to fire across soil depths and ecosystems: A meta-analysis.. <i>Science of the Total Environment</i> , 2022 , 825, 153921	10.2	0

