

# Giacomo Certini

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

4,613  
citations

186265

28  
h-index

102487

66  
g-index

76  
all docs

76  
docs citations

76  
times ranked

5565  
citing authors

#	ARTICLE	IF	CITATIONS
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.	8.0	12
2	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.	1.9	3
3	The impact of fire on soil-dwelling biota: A review. <i>Forest Ecology and Management</i> , 2021, 488, 118989.	3.2	91
4	Mixed-Species Plantation Effects on Soil Biological and Chemical Quality and Tree Growth of a Former Agricultural Land. <i>Forests</i> , 2021, 12, 842.	2.1	6
5	Litter decomposition: Little evidence of the "home-field advantage" in a mountain forest in Italy. <i>Soil Biology and Biochemistry</i> , 2021, 159, 108300.	8.8	17
6	Tree Species Composition in Mixed Plantations Influences Plant Growth, Intrinsic Water Use Efficiency and Soil Carbon Stock. <i>Forests</i> , 2021, 12, 1251.	2.1	5
7	Cyanobacteria inoculation as a potential tool for stabilization of burned soils. <i>Restoration Ecology</i> , 2020, 28, S106.	2.9	34
8	Machinery's impact on forest soil porosity. <i>Journal of Terramechanics</i> , 2020, 91, 65-71.	3.1	10
9	Disambiguating the soils of Mars. <i>Planetary and Space Science</i> , 2020, 186, 104922.	1.7	16
10	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.	1.9	3
11	Fire regime and ecosystem responses: adaptive forest management in a changing world (Part 2). <i>International Journal of Wildland Fire</i> , 2019, 28, 471.	2.4	2
12	Fire regime and ecosystem responses: adaptive forest management in a changing world (Part 1). <i>International Journal of Wildland Fire</i> , 2019, 28, 327.	2.4	2
13	Composition and turnover time of organic matter in soil fractions with different magnetic susceptibility. <i>Geoderma</i> , 2019, 349, 88-96.	5.1	6
14	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	15
15	Fog collection as a strategy to sequester carbon in drylands. <i>Science of the Total Environment</i> , 2019, 657, 391-400.	8.0	3
16	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.	8.0	9
17	Relic charcoal hearth soils: A neglected carbon reservoir. Case study at Marsiliana forest, Central Italy. <i>Geoderma</i> , 2018, 315, 88-95.	5.1	36
18	The response of glomalin-related soil proteins to fire or tillage. <i>Geoderma</i> , 2018, 329, 65-72.	5.1	13

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19	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, .	3.3	159
20	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.	8.0	20
21	Soil organic matter molecular composition and state of decomposition in three locations of the European Arctic. <i>Biogeochemistry</i> , 2017, 135, 277-292.	3.5	19
22	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.	3.9	11
23	Physical protection of organic matter in minesoils assessed by low-temperature ashing (LTA). <i>Geoderma</i> , 2017, 288, 120-129.	5.1	12
24	Radiocarbon-Based Assessment of Heterotrophic Soil Respiration in Two Mediterranean Forests. <i>Ecosystems</i> , 2016, 19, 62-72.	3.4	2
25	Is the Anthropocene really worthy of a formal geologic definition?. <i>Infrastructure Asset Management</i> , 2015, 2, 77-80.	1.6	7
26	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.	3.0	20
27	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.	5.1	41
28	Holocene as Anthropocene. <i>Science</i> , 2015, 349, 246-246.	12.6	14
29	Temperature response of soil organic matter mineralisation in arctic soil profiles. <i>Soil Biology and Biochemistry</i> , 2015, 88, 236-246.	8.8	43
30	The impact of heavy traffic on forest soils: A review. <i>Forest Ecology and Management</i> , 2015, 338, 124-138.	3.2	336
31	Sorted Patterned Ground. , 2015, , 2019-2025.		0
32	Patterned Ground. , 2015, , 1524-1529.		0
33	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.	3.2	33
34	Fire as a Soil-Forming Factor. <i>Ambio</i> , 2014, 43, 191-195.	5.5	62
35	Environmental impact assessment of different logging methods in pine forests thinning. <i>Ecological Engineering</i> , 2014, 70, 429-436.	3.6	78
36	Soil is brown gold in the Emilia-Romagna region, Italy. <i>Land Use Policy</i> , 2014, 39, 350-357.	5.6	17

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37	Sorted Patterned Ground. , 2014, , 1-9.		1
38	Patterned Ground. , 2014, , 1-7.		0
39	Effects of fire on soil organic matter quality along an altitudinal sequence on Mt. Etna, Sicily. Catena, 2013, 110, 133-145.	5.0	12
40	The impact of warfare on the soil environment. Earth-Science Reviews, 2013, 127, 1-15.	9.1	88
41	An updated, expanded, universal definition of soil. Geoderma, 2013, 192, 378-379.	5.1	27
42	Machinery-induced soil compaction in thinning two pine stands in central Italy. Forest Ecology and Management, 2012, 285, 38-43.	3.2	86
43	Spectral fingerprinting of soil organic matter composition. Organic Geochemistry, 2012, 46, 127-136.	1.8	34
44	Charcoal and stable soil organic matter as indicators of fire frequency, climate and past vegetation in volcanic soils of Mt. Etna, Sicily. Catena, 2012, 88, 14-26.	5.0	30
45	Wildfire effects on soil organic matter quantity and quality in two fire-prone Mediterranean pine forests. Geoderma, 2011, 167-168, 148-155.	5.1	115
46	Radiocarbon based assessment of soil organic matter contribution to soil respiration in a pine stand of the Campine region, Belgium. Plant and Soil, 2011, 344, 273-282.	3.7	6
47	Soil carbon dynamics in a Mediterranean forest during the Kyoto Protocol commitment periods. Regional Environmental Change, 2011, 11, 371-376.	2.9	6
48	Structural characterization of charcoal size-fractions from a burnt Pinus pinea forest by FT-IR, Raman and surface-enhanced Raman spectroscopies. Journal of Molecular Structure, 2011, 994, 155-162.	3.6	59
49	Anthropogenic soils are the golden spikes for the Anthropocene. Holocene, 2011, 21, 1269-1274.	1.7	165
50	The role of soil in storing carbon in tropical rainforests: the case of Ankasa Park, Ghana. Plant and Soil, 2010, 331, 453-461.	3.7	31
51	Charcoal mineralisation potential of microbial inocula from burned and unburned forest soil with and without substrate addition. Soil Biology and Biochemistry, 2010, 42, 1472-1478.	8.8	36
52	Do soils exist outside Earth?. Planetary and Space Science, 2010, 58, 1767-1770.	1.7	6
53	Nature and reactivity of charcoal produced and added to soil during wildfire are particle-size dependent. Organic Geochemistry, 2010, 41, 682-689.	1.8	108
54	Does the preferential microbial colonisation of ferromagnesian minerals affect mineral weathering in soil?. Die Naturwissenschaften, 2008, 95, 851-858.	1.6	22

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55	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.	2.2	25
56	Clues to the genesis of a discontinuously distributed fragipan in the northern Apennines, Italy. <i>Catena</i> , 2007, 69, 161-169.	5.0	14
57	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.	3.7	13
58	Pedogenesis in the sorted patterned ground of Devon Plateau, Devon Island, Nunavut, Canada. <i>Geoderma</i> , 2006, 136, 87-106.	5.1	39
59	The State Factor theory of soil formation. , 2006, , 103-112.		4
60	Soil formation on Earth and beyond: the role of additional soil-forming factors. , 2006, , 193-210.		3
61	CP MAS 13C spectral editing and relative quantitation of a soil sample. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 30, 81-88.	2.3	31
62	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.	1.4	61
63	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.	1.9	15
64	Effects of fire on properties of forest soils: a review. <i>Oecologia</i> , 2005, 143, 1-10.	2.0	2,058
65	Rock fragments in soil support a different microbial community from the fine earth. <i>Soil Biology and Biochemistry</i> , 2004, 36, 1119-1128.	8.8	111
66	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.	3.5	15
67	Segregated Ice and Liquefaction Effects on Compaction of Fragipans. <i>Soil Science Society of America Journal</i> , 2004, 68, 204-214.	2.2	18
68	Carbon dioxide efflux and concentrations in two soils under temperate forests. <i>Biology and Fertility of Soils</i> , 2003, 37, 39-46.	4.3	36
69	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.	5.1	28
70	Weathering of sandstone clasts in a forest soil in Tuscany (Italy). <i>Geoderma</i> , 2003, 116, 357-372.	5.1	17
71	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.	1.9	36
72	The contrasting effect of broom and pine on pedogenic processes in volcanic soils (Mt. Etna, Italy). <i>Geoderma</i> , 2001, 102, 239-254.	5.1	27

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73	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.	1.9	30
74	Influence of soil properties on the mortality of silver fir in Tuscany, Italy. <i>European Journal of Forest Research</i> , 2000, 119, 323-331.	0.3	11
75	Early stages of podzolization under Corsican pine ( <i>Pinus nigra</i> Arn. ssp. <i>laricio</i> ). <i>Geoderma</i> , 1998, 83, 103-125.	5.1	32