

Simona Castaldi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9066329/publications.pdf>

Version: 2024-02-01

59
papers

6,697
citations

109264

35
h-index

133188

59
g-index

61
all docs

61
docs citations

61
times ranked

9505
citing authors

#	ARTICLE	IF	CITATIONS
1	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	5.4	1,649
2	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	3.7	1,199
3	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	3.7	824
4	Biochar as a strategy to sequester carbon and increase yield in durum wheat. <i>European Journal of Agronomy</i> , 2011, 34, 231-238.	1.9	355
5	Impact of biochar application to a Mediterranean wheat crop on soil microbial activity and greenhouse gas fluxes. <i>Chemosphere</i> , 2011, 85, 1464-1471.	4.2	264
6	Effect of biochar addition on soil microbial community in a wheat crop. <i>European Journal of Soil Biology</i> , 2014, 60, 9-15.	1.4	164
7	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014, 11, 381-407.	1.3	162
8	The impact of selective logging and clearcutting on forest structure, tree diversity and above-ground biomass of African tropical forests. <i>Ecological Research</i> , 2015, 30, 119-132.	0.7	122
9	Nitrous oxide emissions from European agriculture – an analysis of variability and drivers of emissions from field experiments. <i>Biogeosciences</i> , 2013, 10, 2671-2682.	1.3	108
10	Responses of nitrous oxide, dinitrogen and carbon dioxide production and oxygen consumption to temperature in forest and agricultural light-textured soils determined by model experiment. <i>Biology and Fertility of Soils</i> , 2000, 32, 67-72.	2.3	91
11	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	1.9	85
12	Fluxes of N ₂ O and CH ₄ from soils of savannas and seasonally-dry ecosystems. <i>Journal of Biogeography</i> , 2006, 33, 401-415.	1.4	84
13	Effect of cycloheximide on N ₂ O and NO ₃ ⁻ production in a forest and an agricultural soil. <i>Biology and Fertility of Soils</i> , 1998, 27, 27-34.	2.3	78
14	The response of methane and nitrous oxide fluxes to forest change in Europe. <i>Biogeosciences</i> , 2012, 9, 3999-4012.	1.3	74
15	An outlook on the Sub-Saharan Africa carbon balance. <i>Biogeosciences</i> , 2009, 6, 2193-2205.	1.3	72
16	Inhibition of net nitrification activity in a Mediterranean woodland: possible role of chemicals produced by <i>Arbutus unedo</i> . <i>Plant and Soil</i> , 2009, 315, 273-283.	1.8	64
17	Soil activities related to nitrogen cycle under three plant cover types in Mediterranean environment. <i>Applied Soil Ecology</i> , 2009, 43, 40-46.	2.1	60
18	Impact of fire on fungal abundance and microbial efficiency in C assimilation and mineralisation in a Mediterranean maquis soil. <i>Biology and Fertility of Soils</i> , 2007, 44, 377-381.	2.3	57

#	ARTICLE	IF	CITATIONS
19	Suitability of soil microbial parameters as indicators of heavy metal pollution. <i>Water, Air, and Soil Pollution</i> , 2004, 158, 21-35.	1.1	56
20	Litter decomposition in Mediterranean ecosystems: Modelling the controlling role of climatic conditions and litter quality. <i>Applied Soil Ecology</i> , 2011, 49, 148-157.	2.1	56
21	Soil-Atmosphere Methane Exchange in Undisturbed and Burned Mediterranean Shrubland of Southern Italy. <i>Ecosystems</i> , 2005, 8, 182-190.	1.6	55
22	A literature overview of micrometeorological CH ₄ and N ₂ O flux measurements in terrestrial ecosystems. <i>Atmospheric Environment</i> , 2013, 81, 311-319.	1.9	55
23	Greenhouse gases (CO ₂ , CH ₄ and N ₂ O) in lowland springs within an agricultural impacted watershed (Po River Plain, northern Italy). <i>Chemistry and Ecology</i> , 2011, 27, 177-187.	0.6	54
24	Long Tree-Ring Chronologies Provide Evidence of Recent Tree Growth Decrease in a Central African Tropical Forest. <i>PLoS ONE</i> , 2015, 10, e0120962.	1.1	53
25	Effects of the allelochemical coumarin on plants and soil microbial community. <i>Soil Biology and Biochemistry</i> , 2016, 95, 30-39.	4.2	52
26	Factors influencing nitrification and denitrification variability in a natural and fire-disturbed Mediterranean shrubland. <i>Biology and Fertility of Soils</i> , 2002, 36, 418-425.	2.3	51
27	CO ₂ , CH ₄ and N ₂ O fluxes from soil of a burned grassland in Central Africa. <i>Biogeosciences</i> , 2010, 7, 3459-3471.	1.3	50
28	Tree-ring carbon and oxygen isotopes indicate different water use strategies in three Mediterranean shrubs at Capo Caccia (Sardinia, Italy). <i>Trees - Structure and Function</i> , 2015, 29, 1593-1603.	0.9	46
29	Weakened growth of cropland N ₂ O emissions in China associated with nationwide policy interventions. <i>Global Change Biology</i> , 2019, 25, 3706-3719.	4.2	46
30	IoT Monitoring of Urban Tree Ecosystem Services: Possibilities and Challenges. <i>Forests</i> , 2020, 11, 775.	0.9	46
31	Changes in CO ₂ emissions after crop conversion from continuous maize to alfalfa. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 139-147.	2.5	45
32	Nitrous oxide and methane fluxes from soils of the Orinoco savanna under different land uses. <i>Global Change Biology</i> , 2004, 10, 1947-1960.	4.2	44
33	The contribution to climate change of the organic versus conventional wheat farming: A case study on the carbon footprint of wholemeal bread production in Italy. <i>Journal of Cleaner Production</i> , 2017, 153, 309-319.	4.6	44
34	Polyphenols from the hydroalcoholic extract of <i>Arbutus unedo</i> living in a monospecific Mediterranean woodland. <i>Biochemical Systematics and Ecology</i> , 2007, 35, 809-811.	0.6	43
35	Methane production and consumption in an active volcanic environment of Southern Italy. <i>Chemosphere</i> , 2005, 58, 131-139.	4.2	40
36	Effects of olive pomace amendment on soil enzyme activities. <i>Applied Soil Ecology</i> , 2017, 119, 242-249.	2.1	35

#	ARTICLE	IF	CITATIONS
37	A multilevel carbon and water footprint dataset of food commodities. <i>Scientific Data</i> , 2021, 8, 127.	2.4	35
38	Nitrous oxide emissions from soil of an African rain forest in Ghana. <i>Biogeosciences</i> , 2013, 10, 4179-4187.	1.3	33
39	Greenhouse gas balance of cropland conversion to bioenergy poplar short-rotation coppice. <i>Biogeosciences</i> , 2016, 13, 95-113.	1.3	29
40	Postfire nitrogen balance of Mediterranean shrublands: Direct combustion losses versus gaseous and leaching losses from the postfire soil mineral nitrogen flush. <i>Global Change Biology</i> , 2018, 24, 4505-4520.	4.2	29
41	Post-fire stimulation of soil biogenic emission of CO ₂ in a sandy soil of a Mediterranean shrubland. <i>International Journal of Wildland Fire</i> , 2007, 16, 573.	1.0	24
42	The methane sink associated to soils of natural and agricultural ecosystems in Italy. <i>Chemosphere</i> , 2007, 66, 723-729.	4.2	23
43	Fungi-to-bacteria ratio in soils of European Russia. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 427-446.	1.3	22
44	Critical range of soil organic carbon in southern Europe lands under desertification risk. <i>Journal of Environmental Management</i> , 2021, 287, 112285.	3.8	18
45	Title is missing!. <i>Plant and Soil</i> , 1998, 199, 229-238.	1.8	15
46	Soil-atmosphere greenhouse gases (CO ₂ , CH ₄ and Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 and Environment, 2011, 57, 471-477.	1.0	15
47	Soil N ₂ O emissions in a Mediterranean shrubland disturbed by experimental fires. <i>International Journal of Wildland Fire</i> , 2011, 20, 847.	1.0	12
48	The positive climate impact of the Mediterranean diet and current divergence of Mediterranean countries towards less climate sustainable food consumption patterns. <i>Scientific Reports</i> , 2022, 12, .	1.6	12
49	DRY and BULK atmospheric nitrogen deposition to a West-African humid forest exposed to terrestrial and oceanic sources. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 184-195.	1.9	9
50	Seasonal trends of dry and bulk concentration of nitrogen compounds over a rain forest in Ghana. <i>Biogeosciences</i> , 2014, 11, 3069-3081.	1.3	7
51	Composition and turnover time of organic matter in soil fractions with different magnetic susceptibility. <i>Geoderma</i> , 2019, 349, 88-96.	2.3	6
52	Effect of Biochar on Soil CO ₂ Fluxes from Agricultural Field Experiments in Russian Far East. <i>Agronomy</i> , 2021, 11, 1559.	1.3	6
53	Effect of ebullition and groundwater temperature on estimated dinitrogen excess in contrasting agricultural environments. <i>Science of the Total Environment</i> , 2019, 693, 133638.	3.9	4
54	Cycloheximide inhibition of peptone-induced nitrate production across a soil moisture gradient. <i>Biology and Fertility of Soils</i> , 2005, 41, 288-290.	2.3	3

#	ARTICLE	IF	CITATIONS
55	The effect on nitrogen oxide emission from agricultural soils. E3S Web of Conferences, 2020, 175, 09014.	0.2	3
56	Biomass Growth Rate of Trees from Cameroon Based on ¹⁴ C Analysis and Growth Models. Radiocarbon, 2013, 55, 885-893.	0.8	2
57	Soil Is a Net Source of Methane in Tropical African Forests. Forests, 2020, 11, 1157.	0.9	2
58	N ₂ O Emission Factors for Italian Crops. Environmental Science and Engineering, 2015, , 135-144.	0.1	2
59	Disaggregated Estimation of N ₂ O Fluxes from Agricultural Soils of the Italian Region by Modelization in GIS Environment. , 0, , 265-276.		0