

# Emanuele Lugato

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

9,175  
citations

61984

43  
h-index

91884

69  
g-index

75  
all docs

75  
docs citations

75  
times ranked

9738  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continental-scale measurements of soil pyrogenic carbon in Europe. <i>Soil Research</i> , 2022, 60, 103-113.	1.1	0
2	Phosphorus plant removal from European agricultural land. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2022, 17, 5-20.	1.4	11
3	Spatial evaluation and trade-off analysis of soil functions through Bayesian networks. <i>European Journal of Soil Science</i> , 2021, 72, 1575-1589.	3.9	11
4	Can N <sub>2</sub> O emissions offset the benefits from soil organic carbon storage?. <i>Global Change Biology</i> , 2021, 27, 237-256.	9.5	174
5	Different climate sensitivity of particulate and mineral-associated soil organic matter. <i>Nature Geoscience</i> , 2021, 14, 295-300.	12.9	164
6	Using Diffuse Reflectance Spectroscopy as a High Throughput Method for Quantifying Soil C and N and Their Distribution in Particulate and Mineral-Associated Organic Matter Fractions. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	13
7	Manure management and soil biodiversity: Towards more sustainable food systems in the EU. <i>Agricultural Systems</i> , 2021, 194, 103251.	6.1	98
8	Integrated management for sustainable cropping systems: Looking beyond the greenhouse balance at the field scale. <i>Global Change Biology</i> , 2020, 26, 2584-2598.	9.5	23
9	Land use and climate change impacts on global soil erosion by water (2015-2070). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21994-22001.	7.1	622
10	A Soil Erosion Indicator for Supporting Agricultural, Environmental and Climate Policies in the European Union. <i>Remote Sensing</i> , 2020, 12, 1365.	4.0	97
11	Maximising climate mitigation potential by carbon and radiative agricultural land management with cover crops. <i>Environmental Research Letters</i> , 2020, 15, 094075.	5.2	26
12	Carbon sequestration capacity and productivity responses of Mediterranean olive groves under future climates and management options. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019, 24, 467-491.	2.1	18
13	Mapping LUCAS topsoil chemical properties at European scale using Gaussian process regression. <i>Geoderma</i> , 2019, 355, 113912.	5.1	148
14	A linkage between the biophysical and the economic: Assessing the global market impacts of soil erosion. <i>Land Use Policy</i> , 2019, 86, 299-312.	5.6	143
15	Integrated and spatially explicit assessment of sustainable crop residues potential in Europe. <i>Biomass and Bioenergy</i> , 2019, 122, 257-269.	5.7	77
16	Unifying soil organic matter formation and persistence frameworks: the MEMS model. <i>Biogeosciences</i> , 2019, 16, 1225-1248.	3.3	81
17	Assessing the Climate Regulation Potential of Agricultural Soils Using a Decision Support Tool Adapted to Stakeholders' Needs and Possibilities. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	15
18	Soil carbon storage informed by particulate and mineral-associated organic matter. <i>Nature Geoscience</i> , 2019, 12, 989-994.	12.9	588

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19	Mitigation potential of soil carbon management overestimated by neglecting N <sub>2</sub> O emissions. <i>Nature Climate Change</i> , 2018, 8, 219-223.	18.8	122
20	Cost of agricultural productivity loss due to soil erosion in the European Union: From direct cost evaluation approaches to the use of macroeconomic models. <i>Land Degradation and Development</i> , 2018, 29, 471-484.	3.9	214
21	Copper distribution in European topsoils: An assessment based on LUCAS soil survey. <i>Science of the Total Environment</i> , 2018, 636, 282-298.	8.0	240
22	A step towards a holistic assessment of soil degradation in Europe: Coupling on-site erosion with sediment transfer and carbon fluxes. <i>Environmental Research</i> , 2018, 161, 291-298.	7.5	116
23	Soil erosion is unlikely to drive a future carbon sink in Europe. <i>Science Advances</i> , 2018, 4, eaau3523.	10.3	67
24	Potential Sources of Anthropogenic Copper Inputs to European Agricultural Soils. <i>Sustainability</i> , 2018, 10, 2380.	3.2	95
25	Lateral carbon transfer from erosion in noncroplands matters. <i>Global Change Biology</i> , 2018, 24, 3283-3284.	9.5	15
26	An assessment of the global impact of 21st century land use change on soil erosion. <i>Nature Communications</i> , 2017, 8, 2013.	12.8	1,398
27	A New Assessment of Soil Loss Due to Wind Erosion in European Agricultural Soils Using a Quantitative Spatially Distributed Modelling Approach. <i>Land Degradation and Development</i> , 2017, 28, 335-344.	3.9	125
28	Complementing the topsoil information of the Land Use/Land Cover Area Frame Survey (LUCAS) with modelled N <sub>2</sub> O emissions. <i>PLoS ONE</i> , 2017, 12, e0176111.	2.5	23
29	How does tillage intensity affect soil organic carbon? A systematic review. <i>Environmental Evidence</i> , 2017, 6, .	2.7	171
30	Quantifying the erosion effect on current carbon budget of European agricultural soils at high spatial resolution. <i>Global Change Biology</i> , 2016, 22, 1976-1984.	9.5	65
31	Reply to the comment on "The new assessment of soil loss by water erosion in Europe" by Fiener & Auerwald. <i>Environmental Science and Policy</i> , 2016, 57, 143-150.	4.9	16
32	Reply to "The new assessment of soil loss by water erosion in Europe. Panagos P. et al., 2015 <i>Environ. Sci. Policy</i> 54, 438-447" A response by Evans and Boardman [ <i>Environ. Sci. Policy</i> 58, 11-15]. <i>Environmental Science and Policy</i> , 2016, 59, 53-57.	4.9	24
33	Towards a Pan-European Assessment of Land Susceptibility to Wind Erosion. <i>Land Degradation and Development</i> , 2016, 27, 1093-1105.	3.9	116
34	A grassland strategy for farming systems in Europe to mitigate GHG emissions: An integrated spatially differentiated modelling approach. <i>Land Use Policy</i> , 2016, 58, 318-334.	5.6	11
35	Which agricultural management interventions are most influential on soil organic carbon (using) Tj ETQq1 1 0.784314 rgBT /Overlock 11	2.7	4
36	How does tillage intensity affect soil organic carbon? A systematic review protocol. <i>Environmental Evidence</i> , 2016, 5, .	2.7	51

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37	Climate change impacts of power generation from residual biomass. <i>Biomass and Bioenergy</i> , 2016, 89, 146-158.	5.7	74
38	Effect of Good Agricultural and Environmental Conditions on erosion and soil organic carbon balance: A national case study. <i>Land Use Policy</i> , 2016, 50, 408-421.	5.6	104
39	What are the effects of agricultural management on soil organic carbon in boreo-temperate systems?. <i>Environmental Evidence</i> , 2015, 4, .	2.7	42
40	Estimating the soil erosion cover-management factor at the European scale. <i>Land Use Policy</i> , 2015, 48, 38-50.	5.6	516
41	Optimal energy use of agricultural crop residues preserving soil organic carbon stocks in Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 519-529.	16.4	90
42	Modelling Soil Organic Carbon Changes Under Different Maize Cropping Scenarios for Cellulosic Ethanol in Europe. <i>Bioenergy Research</i> , 2015, 8, 537-545.	3.9	12
43	The new assessment of soil loss by water erosion in Europe. <i>Environmental Science and Policy</i> , 2015, 54, 438-447.	4.9	825
44	Soil carbon, multiple benefits. <i>Environmental Development</i> , 2015, 13, 33-38.	4.1	75
45	Low stabilization of aboveground crop residue carbon in sandy soils of Swedish long-term experiments. <i>Geoderma</i> , 2015, 237-238, 246-255.	5.1	109
46	Potential carbon sequestration of European arable soils estimated by modelling a comprehensive set of management practices. <i>Global Change Biology</i> , 2014, 20, 3557-3567.	9.5	181
47	What are the effects of agricultural management on soil organic carbon (SOC) stocks?. <i>Environmental Evidence</i> , 2014, 3, .	2.7	36
48	Impact of biochar application on plant water relations in <i>Vitis vinifera</i> (L.). <i>European Journal of Agronomy</i> , 2014, 53, 38-44.	4.1	251
49	A new baseline of organic carbon stock in European agricultural soils using a modelling approach. <i>Global Change Biology</i> , 2014, 20, 313-326.	9.5	176
50	Chapter 11. Using mitigation and adaptation strategies to optimize crop yield and greenhouse gas emissions. , 2014, , 203-236.		0
51	Long-term pan evaporation observations as a resource to understand the water cycle trend: case studies from Australia. <i>Hydrological Sciences Journal</i> , 2013, 58, 1287-1296.	2.6	7
52	An energyâ€biochar chain involving biomass gasification and rice cultivation in Northern Italy. <i>GCB Bioenergy</i> , 2013, 5, 192-201.	5.6	34
53	The Application of Biochar in the EU: Challenges and Opportunities. <i>Agronomy</i> , 2013, 3, 462-473.	3.0	52
54	Characterization of Humic Carbon in Soil Aggregates in a Longâ€term Experiment with Manure and Mineral Fertilization. <i>Soil Science Society of America Journal</i> , 2012, 76, 880-890.	2.2	33

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55	Surface albedo following biochar application in durum wheat. <i>Environmental Research Letters</i> , 2012, 7, 014025.	5.2	89
56	Land use change and soil organic carbon dynamics in Mediterranean agro-ecosystems: The case study of Pianosa Island. <i>Geoderma</i> , 2012, 175-176, 29-36.	5.1	31
57	A flexible unmanned aerial vehicle for precision agriculture. <i>Precision Agriculture</i> , 2012, 13, 517-523.	6.0	259
58	Nitrate concentrations in groundwater under contrasting agricultural management practices in the low plains of Italy. <i>Agriculture, Ecosystems and Environment</i> , 2012, 147, 47-56.	5.3	45
59	Methane and carbon dioxide fluxes and source partitioning in urban areas: The case study of Florence, Italy. <i>Environmental Pollution</i> , 2012, 164, 125-131.	7.5	84
60	Biochar as a strategy to sequester carbon and increase yield in durum wheat. <i>European Journal of Agronomy</i> , 2011, 34, 231-238.	4.1	355
61	Application of DNDC biogeochemistry model to estimate greenhouse gas emissions from Italian agricultural areas at high spatial resolution. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 546-556.	5.3	52
62	Distribution of organic and humic carbon in wet-sieved aggregates of different soils under long-term fertilization experiment. <i>Geoderma</i> , 2010, 157, 80-85.	5.1	75
63	Relationship between aggregate pore size distribution and organic humic carbon in contrasting soils. <i>Soil and Tillage Research</i> , 2009, 103, 153-157.	5.6	37
64	Olsen phosphorus, exchangeable cations and salinity in two long-term experiments of north-eastern Italy and assessment of soil quality evolution. <i>Agriculture, Ecosystems and Environment</i> , 2008, 124, 85-96.	5.3	36
65	Potential carbon sequestration in a cultivated soil under different climate change scenarios: A modelling approach for evaluating promising management practices in north-east Italy. <i>Agriculture, Ecosystems and Environment</i> , 2008, 128, 97-103.	5.3	59
66	Modelling soil organic carbon dynamics in two long-term experiments of north-eastern Italy. <i>Agriculture, Ecosystems and Environment</i> , 2007, 120, 423-432.	5.3	51
67	Soil organic carbon (SOC) dynamics with and without residue incorporation in relation to different nitrogen fertilisation rates. <i>Geoderma</i> , 2006, 135, 315-321.	5.1	76
68	Long-term effects of recommended management practices on soil carbon changes and sequestration in north-eastern Italy. <i>Soil Use and Management</i> , 2006, 22, 71-81.	4.9	76
69	An integrated non-point source model-GIS system for selecting criteria of best management practices in the Po Valley, North Italy. <i>Agriculture, Ecosystems and Environment</i> , 2004, 102, 247-262.	5.3	45
70	Agricultural land use and N losses to water: the case study of a fluvial park in Northern Italy. <i>Water Science and Technology</i> , 2003, 47, 275-282.	2.5	2