Cristiano Ballabio

List of Publications by Year
in descending order

60	8,292	94269 37	133063 59
papers	citations	h-index	g-index

63	63	63	7491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An assessment of the global impact of 21st century land use change on soil erosion. Nature Communications, 2017, 8, 2013.	5.8	1,398
2	The new assessment of soil loss by water erosion in Europe. Environmental Science and Policy, 2015, 54, 438-447.	2.4	825
3	Land use and climate change impacts on global soil erosion by water (2015-2070). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21994-22001.	3.3	622
4	Rainfall erosivity in Europe. Science of the Total Environment, 2015, 511, 801-814.	3.9	443
5	Global phosphorus shortage will be aggravated by soil erosion. Nature Communications, 2020, 11, 4546.	5.8	365
6	Soil erodibility in Europe: A high-resolution dataset based on LUCAS. Science of the Total Environment, 2014, 479-480, 189-200.	3.9	354
7	Global rainfall erosivity assessment based on high-temporal resolution rainfall records. Scientific Reports, 2017, 7, 4175.	1.6	348
8	Mapping topsoil physical properties at European scale using the LUCAS database. Geoderma, 2016, 261, 110-123.	2.3	318
9	LUCAS Soil, the largest expandable soil dataset for Europe: a review. European Journal of Soil Science, 2018, 69, 140-153.	1.8	303
10	Soil erosion modelling: A global review and statistical analysis. Science of the Total Environment, 2021, 780, 146494.	3.9	261
11	Copper distribution in European topsoils: An assessment based on LUCAS soil survey. Science of the Total Environment, 2018, 636, 282-298.	3.9	240
12	Support Vector Machines for Landslide Susceptibility Mapping: The Staffora River Basin Case Study, Italy. Mathematical Geosciences, 2012, 44, 47-70.	1.4	196
13	A map of the topsoil organic carbon content of Europe generated by a generalized additive model. European Journal of Soil Science, 2015, 66, 121-134.	1.8	158
14	Mapping LUCAS topsoil chemical properties at European scale using Gaussian process regression. Geoderma, 2019, 355, 113912.	2.3	148
15	Mapping monthly rainfall erosivity in Europe. Science of the Total Environment, 2017, 579, 1298-1315.	3.9	142
16	Towards estimates of future rainfall erosivity in Europe based on REDES and WorldClim datasets. Journal of Hydrology, 2017, 548, 251-262.	2.3	132
17	Spatio-temporal analysis of rainfall erosivity and erosivity density in Greece. Catena, 2016, 137, 161-172.	2.2	121
18	Towards a Panâ€European Assessment of Land Susceptibility to Wind Erosion. Land Degradation and Development, 2016, 27, 1093-1105.	1.8	116

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19	Projections of soil loss by water erosion in Europe by 2050. Environmental Science and Policy, 2021, 124, 380-392.	2.4	111
20	Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. GeoResJ, 2017, 14, 1-19.	1.4	102
21	Spatial agreement of predicted patterns in landslide susceptibility maps. Geomorphology, 2011, 125, 51-61.	1.1	99
22	A Soil Erosion Indicator for Supporting Agricultural, Environmental and Climate Policies in the European Union. Remote Sensing, 2020, 12, 1365.	1.8	97
23	Potential Sources of Anthropogenic Copper Inputs to European Agricultural Soils. Sustainability, 2018, 10, 2380.	1.6	95
24	Wind erosion susceptibility of European soils. Geoderma, 2014, 232-234, 471-478.	2.3	89
25	Soil erosion modelling: A bibliometric analysis. Environmental Research, 2021, 197, 111087.	3.7	78
26	Spatial prediction of soil properties in temperate mountain regions using support vector regression. Geoderma, 2009, 151, 338-350.	2.3	76
27	Soil carbon, multiple benefits. Environmental Development, 2015, 13, 33-38.	1.8	75
28	Soil erosion is unlikely to drive a future carbon sink in Europe. Science Advances, 2018, 4, eaau3523.	4.7	67
29	Seasonal monitoring of soil erosion at regional scale: An application of the G2 model in Crete focusing on agricultural land uses. International Journal of Applied Earth Observation and Geoinformation, 2014, 27, 147-155.	1.4	66
30	A knowledge-based approach to estimating the magnitude and spatial patterns of potential threats to soil biodiversity. Science of the Total Environment, 2016, 545-546, 11-20.	3.9	65
31	Monthly Rainfall Erosivity: Conversion Factors for Different Time Resolutions and Regional Assessments. Water (Switzerland), 2016, 8, 119.	1.2	60
32	A spatial assessment of mercury content in the European Union topsoil. Science of the Total Environment, 2021, 769, 144755.	3.9	55
33	Global rainfall erosivity projections for 2050 and 2070. Journal of Hydrology, 2022, 610, 127865.	2.3	51
34	Estimating the soil organic carbon content for European NUTS2 regions based on LUCAS data collection. Science of the Total Environment, 2013, 442, 235-246.	3.9	49
35	Benefits of soil carbon: report on the outcomes of an international scientific committee on problems of the environment rapid assessment workshop. Carbon Management, 2014, 5, 185-192.	1.2	46
36	Influence of threshold value in the use of statistical methods for groundwater vulnerability assessment. Science of the Total Environment, 2009, 407, 3836-3846.	3.9	45

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37	Objectâ€oriented soil erosion modelling: A possible paradigm shift from potential to actual risk assessments in agricultural environments. Land Degradation and Development, 2018, 29, 1270-1281.	1.8	44
38	Reliability of groundwater vulnerability maps obtained through statistical methods. Journal of Environmental Management, 2011, 92, 1215-1224.	3.8	39
39	Mercury in European topsoils: Anthropogenic sources, stocks and fluxes. Environmental Research, 2021, 201, 111556.	3.7	32
40	Plutonium aided reconstruction of caesium atmospheric fallout in European topsoils. Scientific Reports, 2020, 10, 11858.	1.6	31
41	Reconstruction of past rainfall erosivity and trend detection based on the REDES database and reanalysis rainfall. Journal of Hydrology, 2020, 590, 125372.	2.3	30
42	Seasonal changes and temperature-dependent accumulation of polycyclic aromatic hydrocarbons in high-altitude soils. Science of the Total Environment, 2009, 407, 4269-4277.	3.9	28
43	A plant ecology approach to digital soil mapping, improving the prediction of soil organic carbon content in alpine grasslands. Geoderma, 2012, 187-188, 102-116.	2.3	28
44	A Comparison of Dataâ€Driven Groundwater Vulnerability Assessment Methods. Ground Water, 2013, 51, 866-879.	0.7	28
45	Seasonal and spatial variability of polychlorinated biphenyls (PCBs) in vegetation and cow milk from a high altitude pasture in the Italian Alps. Environmental Pollution, 2011, 159, 2656-2664.	3.7	26
46	Reply to â€œThe new assessment of soil loss by water erosion in Europe. Panagos P. et al., 2015 Environ. Sci. Policy 54, 438â€“447â€”A responseâ€•by Evans and Boardman [Environ. Sci. Policy 58, 11â€“15]. Environmental Science and Policy, 2016, 59, 53-57.	2.4	24
47	Preferential retention of POPs on the northern aspect of mountains. Environmental Pollution, 2009, 157, 3298-3307.	3.7	23
48	Monitoring gully erosion in the European Union: A novel approach based on the Land Use/Cover Area frame survey (LUCAS). International Soil and Water Conservation Research, 2022, 10, 17-28.	3.0	23
49	GloSEM: High-resolution global estimates of present and future soil displacement in croplands by water erosion. Scientific Data, 2022, 9, .	2.4	23
50	Reply to the comment on â€œRainfall erosivity in Europeâ€•by Auerswald et al.. Science of the Total Environment, 2015, 532, 853-857.	3.9	19
51	Aquifer nitrate vulnerability assessment using positive and negative weights of evidence methods, Milan, Italy. Computers and Geosciences, 2012, 48, 199-210.	2.0	16
52	Reply to the comment on â€œThe new assessment of soil loss by water erosion in Europeâ€•by Fiener & Auerswald. Environmental Science and Policy, 2016, 57, 143-150.	2.4	16
53	Lateral carbon transfer from erosion in noncroplands matters. Global Change Biology, 2018, 24, 3283-3284.	4.2	15
54	Filling the European blank spotâ€”Swiss soil erodibility assessment with topsoil samples. Journal of Plant Nutrition and Soil Science, 2018, 181, 737-748.	1.1	11

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55	Advances in soil erosion modelling through remote sensing data availability at European scale. Proceedings of SPIE, 2014, , .	0.8	5
56	Topsoil Organic Carbon Map of Europe. , 2014, , 393-405.		4
57	Highly spatially- and seasonally-resolved predictive contamination maps for persistent organic pollutants: Development and validation. Science of the Total Environment, 2013, 458-460, 546-554.	3.9	3
58	Mapping Heavy Metal Content in Soils with Multi-Kernel SVR and LiDAR Derived Data. , 2010, , 205-216.		3
59	Predicting soil organic carbon content in Cyprus using remote sensing and Earth observation data. Proceedings of SPIE, 2014, , .	0.8	2
60	Occurrence neighbourhoods and risk assessment from landslide hazard in northern Spain. WIT Transactions on Information and Communication Technologies, 2008, , .	0.0	2