

# Edoardo A C Costantini

## List of Publications by Year in descending order

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60  
papers

1,529  
citations

236925

25  
h-index

345221

36  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil indicators to assess the effectiveness of restoration strategies in dryland ecosystems. <i>Solid Earth</i> , 2016, 7, 397-414.	2.8	105
2	An overview of the recent approaches to terroir functional modelling, footprinting and zoning. <i>Soil</i> , 2015, 1, 287-312.	4.9	82
3	The influence of climate change on the soil organic carbon content in Italy from 1961 to 2008. <i>Geomorphology</i> , 2011, 135, 343-352.	2.6	80
4	Rationale and methods for compiling an atlas of desertification in Italy. <i>Land Degradation and Development</i> , 2009, 20, 261-276.	3.9	63
5	Improving Wine Quality through Harvest Zoning and Combined Use of Remote and Soil Proximal Sensing. <i>Soil Science Society of America Journal</i> , 2013, 77, 1338-1348.	2.2	56
6	Can $\delta^{13}\text{C}$ -radiometrics predict soil textural data and stoniness in different parent materials? A comparison of two machine-learning methods. <i>Geoderma</i> , 2014, 226-227, 354-364.	5.1	54
7	Ecological restoration across the Mediterranean Basin as viewed by practitioners. <i>Science of the Total Environment</i> , 2016, 566-567, 722-732.	8.0	51
8	Short-term recovery of soil physical, chemical, micro- and mesobiological functions in a new vineyard under organic farming. <i>Soil</i> , 2015, 1, 443-457.	4.9	44
9	Loess in Italy: Genesis, characteristics and occurrence. <i>Catena</i> , 2018, 168, 14-33.	5.0	44
10	Environmental and visual impact analysis of viticulture and olive tree cultivation in the province of Siena (Italy). <i>European Journal of Agronomy</i> , 2008, 28, 412-426.	4.1	41
11	Effects of soil erosion on agro-ecosystem services and soil functions: A multidisciplinary study in nineteen organically farmed European and Turkish vineyards. <i>Journal of Environmental Management</i> , 2018, 223, 614-624.	7.8	39
12	Pedogenesis of plinthite during early Pliocene in the Mediterranean environment. <i>Catena</i> , 2007, 71, 425-443.	5.0	36
13	Accounting for extensive topographic and pedologic secondary information to improve soil mapping. <i>Catena</i> , 2009, 77, 28-38.	5.0	36
14	Scale effect of terroir under three contrasting vintages in the Chianti Classico area (Tuscany, Italy). <i>Geoderma</i> , 2019, 334, 99-112.	5.1	33
15	Mapping suitability for Sangiovese wine by means of $\delta^{13}\text{C}$ and geophysical sensors in soils with moderate salinity. <i>European Journal of Agronomy</i> , 2010, 33, 208-217.	4.1	32
16	Pedostratigraphy of Terra Rossa and Quaternary geological evolution of a lacustrine limestone plateau in central Italy. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 509-523.	1.9	31
17	Comparing data mining and deterministic pedology to assess the frequency of WRB reference soil groups in the legend of small scale maps. <i>Geoderma</i> , 2015, 237-238, 237-245.	5.1	30
18	Field-scale Mapping of Soil Carbon Stock with Limited Sampling by Coupling Gamma-Ray and Vis-NIR Spectroscopy. <i>Soil Science Society of America Journal</i> , 2016, 80, 954-964.	2.2	30

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19	Using the analysis of iron and iron oxides in paleosols (TEM, geochemistry and iron forms) for the assessment of present and past pedogenesis. <i>Quaternary International</i> , 2006, 156-157, 200-211.	1.5	29
20	The soil cultural heritage of Italy: Geodatabase, maps, and pedodiversity evaluation. <i>Quaternary International</i> , 2009, 209, 142-153.	1.5	29
21	Micromorphological characterization and monitoring of internal drainage in soils of vineyards and olive groves in central Italy. <i>Geoderma</i> , 2006, 131, 388-403.	5.1	28
22	Quaternary landscape history determines the soil functional characters of terroir. <i>Quaternary International</i> , 2012, 265, 63-73.	1.5	28
23	A multivariate approach for the study of environmental drivers of wine economic structure. <i>Land Use Policy</i> , 2016, 57, 53-63.	5.6	28
24	Climate and Pedoclimate of Italy. <i>World Soils Book Series</i> , 2013, , 19-37.	0.2	27
25	Beyond the concept of dominant soil: Preserving pedodiversity in upscaling soil maps. <i>Geoderma</i> , 2016, 271, 243-253.	5.1	27
26	Pedogenesis in mine tails affects macroporosity, hydrological properties, and pollutant flow. <i>Catena</i> , 2016, 136, 3-16.	5.0	26
27	Soil degradation processes in the Italian agricultural and forest ecosystems. <i>Italian Journal of Agronomy</i> , 2013, 8, 28.	1.0	25
28	Tracing the $^{87}\text{Sr}/^{86}\text{Sr}$ from rocks and soils to vine and wine: An experimental study on geologic and pedologic characterisation of vineyards using radiogenic isotope of heavy elements. <i>Science of the Total Environment</i> , 2018, 628-629, 1317-1327.	8.0	25
29	Multidisciplinary characterization of the middle Holocene eolian deposits of the Elsa River basin (central Italy). <i>Quaternary International</i> , 2009, 209, 107-130.	1.5	24
30	Natural terroir units, Siena province, Tuscany. <i>Journal of Maps</i> , 2014, 10, 466-477.	2.0	23
31	Pedodiversity. <i>World Soils Book Series</i> , 2013, , 105-178.	0.2	22
32	Assessing Soil Moisture Regimes with Traditional and New Methods. <i>Soil Science Society of America Journal</i> , 2002, 66, 1889-1896.	2.2	21
33	Soil Water Availability in Rainfed Cultivation Affects More than Cultivar Some Nutraceutical Components and the Sensory Profile of Virgin Olive Oil. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 8304-8313.	5.2	19
34	How to improve the adoption of soil conservation practices? Suggestions from farmers' perception in western Sicily. <i>Journal of Rural Studies</i> , 2020, 73, 186-202.	4.7	19
35	Local adaptation strategies to increase or maintain soil organic carbon content under arable farming in Europe: Inspirational ideas for setting operational groups within the European innovation partnership. <i>Journal of Rural Studies</i> , 2020, 79, 102-115.	4.7	19
36	The use of the ARPÂ© system to reduce the costs of soil survey for precision viticulture. <i>Journal of Applied Geophysics</i> , 2013, 99, 24-34.	2.1	18

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37	Relevance of the Lin's and Host hydro-pedological models to predict grape yield and wine quality. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1635-1648.	4.9	17
38	Soil erosion risk, Sicilian Region (1:250,000 scale). <i>Journal of Maps</i> , 2015, 11, 323-341.	2.0	17
39	Local topographic and edaphic factors largely predict shrub encroachment in Mediterranean drylands. <i>Science of the Total Environment</i> , 2019, 657, 310-318.	8.0	17
40	Using the ARP-03 for high-resolution mapping of calcic horizons. <i>International Agrophysics</i> , 2013, 27, 313-321.	1.7	16
41	Soil health, soil genetic horizons and biodiversity<sup>#</sup>. <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 24-34.	1.9	16
42	Paleosols and pedostratigraphy. <i>Applied Soil Ecology</i> , 2018, 123, 597-600.	4.3	13
43	Estimation of andic properties from Vis-NIR diffuse reflectance spectroscopy for volcanic soil classification. <i>Catena</i> , 2019, 182, 104109.	5.0	12
44	Soil Physical-Hydrological Degradation in the Root-Zone of Tree Crops: Problems and Solutions. <i>Agronomy</i> , 2021, 11, 68.	3.0	10
45	Soil, vine and other quality cultures: "terroir" and "zonazione" concepts introduction and practice. <i>Italian Journal of Agronomy</i> , 2008, 3, 23.	1.0	9
46	Using pedostratigraphic levels and a GIS to generate three-dimensional maps of the Quaternary soil cover and reconstruct the geomorphological development of the Montagnola Senese (central Italy). <i>Quaternary International</i> , 2006, 156-157, 167-175.	1.5	8
47	Using existing soil databases to consider paleosols in land planning: Case study of the Lombardy region (northern Italy). <i>Quaternary International</i> , 2007, 162-163, 166-171.	1.5	8
48	Adding information about soils and paleosols to geological maps, through the application of the "pedostratigraphic level" concept. <i>Quaternary International</i> , 2007, 175, 125-139.	1.5	7
49	More Crop for Drop " Climate Change and Wine: An Economic Evaluation of a New Drought-Resistant Rootstock. <i>Recent Patents on Food, Nutrition &amp; Agriculture</i> , 2015, 6, 100-112.	0.9	7
50	From vine to wine: Data on <sup>87</sup> Sr/ <sup>86</sup> Sr from rocks and soils as a geologic and pedologic characterisation of vineyards. <i>Data in Brief</i> , 2018, 18, 731-735.	1.0	6
51	Using present and past climosequences to estimate soil organic carbon and related physical quality indicators under future climatic conditions. <i>Agriculture, Ecosystems and Environment</i> , 2018, 266, 17-30.	5.3	5
52	Rates of soil forming processes and the role of aeolian influx. <i>Quaternary International</i> , 2015, 376, 1-4.	1.5	4
53	Physiography of the Sicilian region (1:250,000 scale). <i>Journal of Maps</i> , 2016, 12, 111-122.	2.0	4
54	Combined forest and soil management after a catastrophic event. <i>Journal of Mountain Science</i> , 2020, 17, 2459-2484.	2.0	4

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55	Time as a Soil Forming Factor and Age of Italian Soils. World Soils Book Series, 2013, , 93-104.	0.2	2
56	Olive Tree ( <i>Olea europea</i> L.). , 2009, , .		2
57	Focus Issue: Imprint of Environmental Change on Paleosols (J. Plant Nutr. Soil Sci. 4/2008). Journal of Plant Nutrition and Soil Science, 2008, 171, 482-482.	1.9	1
58	Scale effect of viticultural zoning under three contrasting vintages in Chianti Classico area (Tuscany, Italy). E3S Web of Conferences, 2018, 50, 02012.	0.5	1
59	Soil quality and health key indicators. , 2023, , 181-192.		1
60	Considering Cloddiness When Estimating Rooting Capacity and Soil Fertility. Biology and Life Sciences Forum, 2021, 3, 29.	0.6	0