

Francesco Primo Vaccari

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

6,972
citations

31
h-index

76
g-index

76
ext. papers

7,849
ext. citations

5.6
avg. IF

5.06
L-index

#	Paper	IF	Citations
73	Thermal conversion of fish bones into fertilizers and biostimulants for plant growth [A low tech valorization process for the development of circular economy in least developed countries. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104815	6.8	5
72	A Statistical Approach to Detect Land Cover Changes in Mediterranean Ecosystems Using Multi-Temporal Landsat Data: The Case Study of Pianosa Island, Italy. <i>Forests</i> , 2020 , 11, 334	2.8	3
71	Modeling the impacts of diffuse light fraction on photosynthesis in ORCHIDEE (v5453) land surface model. <i>Geoscientific Model Development</i> , 2020 , 13, 5401-5423	6.3	8
70	Examining the bentonite produced in a biodiesel refinery process as soil amendment in a well-draining soil. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 1855-1870	4.3	
69	Long-term soil biological fertility, volatile organic compounds and chemical properties in a vineyard soil after biochar amendment. <i>Geoderma</i> , 2019 , 344, 127-136	6.7	31
68	Hydrodynamic cavitation as an energy efficient process to increase biochar surface area and porosity: A case study. <i>Journal of Cleaner Production</i> , 2019 , 210, 159-169	10.3	23
67	Changes in the pattern of polycyclic aromatic hydrocarbons in soil treated with biochar from a multiyear field experiment. <i>Chemosphere</i> , 2019 , 219, 662-670	8.4	22
66	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. <i>Biogeosciences</i> , 2018 , 15, 1293-1318	4.6	79
65	Biochar-based nursery substrates: The effect of peat substitution on reduced salinity. <i>Urban Forestry and Urban Greening</i> , 2017 , 23, 27-34	5.4	17
64	Modelling and analyzing the water and carbon dynamics of Mediterranean macchia by the use of ground and remote sensing data. <i>Ecological Modelling</i> , 2017 , 351, 1-13	3	4
63	Biochar improves the fertility of a Mediterranean vineyard without toxic impact on the microbial community. <i>Agronomy for Sustainable Development</i> , 2017 , 37, 1	6.8	12
62	The Effects of Biochar and Its Combination with Compost on Lettuce (<i>Lactuca sativa</i> L.) Growth, Soil Properties, and Soil Microbial Activity and Abundance. <i>International Journal of Agronomy</i> , 2017 , 2017, 1-12	1.9	70
61	Individual plant definition and missing plant characterization in vineyards from high-resolution UAV imagery. <i>European Journal of Remote Sensing</i> , 2017 , 50, 179-186	2.9	27
60	Hydrochar enhances growth of poplar for bioenergy while marginally contributing to direct soil carbon sequestration. <i>GCB Bioenergy</i> , 2017 , 9, 1618-1626	5.6	20
59	Impact of Biochar Formulation on the Release of Particulate Matter and on Short-Term Agronomic Performance. <i>Sustainability</i> , 2017 , 9, 1131	3.6	10
58	Field application of pelletized biochar: Short term effect on the hydrological properties of a silty clay loam soil. <i>Agricultural Water Management</i> , 2016 , 163, 190-196	5.9	69
57	Black carbon aerosol from biochar threatens its negative emission potential. <i>Global Change Biology</i> , 2016 , 22, 2313-4	11.4	18

56	Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. <i>Agricultural and Forest Meteorology</i> , 2015 , 211-212, 23-36	5.8	29
55	Biochar-macrofauna interplay: Searching for new bioindicators. <i>Science of the Total Environment</i> , 2015 , 536, 449-456	10.2	16
54	Biochar stimulates plant growth but not fruit yield of processing tomato in a fertile soil. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 207, 163-170	5.7	115
53	Fate of Soil Organic Carbon and Polycyclic Aromatic Hydrocarbons in a Vineyard Soil Treated with Biochar. <i>Environmental Science & Technology</i> , 2015 , 49, 11037-44	10.3	34
52	THE BIOCHAR - A SOLUTION TO ENHANCE PROCESSING TOMATO PRODUCTION. <i>Acta Horticulturae</i> , 2015 , 209-213	0.3	
51	Intercomparison of UAV, Aircraft and Satellite Remote Sensing Platforms for Precision Viticulture. <i>Remote Sensing</i> , 2015 , 7, 2971-2990	5	330
50	Biochar increases vineyard productivity without affecting grape quality: Results from a four years field experiment in Tuscany. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 201, 20-25	5.7	71
49	Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2788-93	11.5	181
48	Empirical modelling of regional and national durum wheat quality. <i>Agricultural and Forest Meteorology</i> , 2015 , 204, 67-78	5.8	4
47	Monitoring water stress in Mediterranean semi-natural vegetation with satellite and meteorological data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014 , 26, 246-255	7.3	12
46	Durum wheat quality prediction in Mediterranean environments: From local to regional scale. <i>European Journal of Agronomy</i> , 2014 , 61, 1-9	5	12
45	Impact of biochar application on plant water relations in <i>Vitis vinifera</i> (L.). <i>European Journal of Agronomy</i> , 2014 , 53, 38-44	5	192
44	Remote sensing of annual terrestrial gross primary productivity from MODIS: an assessment using the FLUXNET La Thuile data set. <i>Biogeosciences</i> , 2014 , 11, 2185-2200	4.6	49
43	Comparing integrated stable isotope and eddy covariance estimates of water-use efficiency on a Mediterranean successional sequence. <i>Oecologia</i> , 2014 , 176, 581-94	2.9	15
42	An energy-biochar chain involving biomass gasification and rice cultivation in Northern Italy. <i>GCB Bioenergy</i> , 2013 , 5, 192-201	5.6	26
41	Carbon dioxide balance assessment of the city of Florence (Italy), and implications for urban planning. <i>Landscape and Urban Planning</i> , 2013 , 120, 138-146	7.7	28
40	Biochar successfully replaces activated charcoal for in vitro culture of two white poplar clones reducing ethylene concentration. <i>Plant Growth Regulation</i> , 2013 , 69, 43-50	3.2	11
39	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. <i>Agricultural and Forest Meteorology</i> , 2013 , 171-172, 137-152	5.8	342

38	Wireless real-time monitoring of malolactic fermentation in wine barrels: the Wireless Sensor Bung system. <i>Australian Journal of Grape and Wine Research</i> , 2013 , 19, 20-24	2.4	10
37	CrossVit: enhancing canopy monitoring management practices in viticulture. <i>Sensors</i> , 2013 , 13, 7652-67	3.8	14
36	DEVELOPMENT AND APPLICATION OF AN AUTONOMOUS AND FLEXIBLE UNMANNED AERIAL VEHICLE FOR PRECISION VITICULTURE. <i>Acta Horticulturae</i> , 2013 , 63-69	0.3	9
35	Durum wheat modeling: The Delphi system, 11 years of observations in Italy. <i>European Journal of Agronomy</i> , 2012 , 43, 108-118	5	14
34	Methane and carbon dioxide fluxes and source partitioning in urban areas: the case study of Florence, Italy. <i>Environmental Pollution</i> , 2012 , 164, 125-31	9.3	73
33	Airborne high-resolution images for grape classification: changes in correlation between technological and late maturity in a Sangiovese vineyard in Central Italy. <i>Australian Journal of Grape and Wine Research</i> , 2012 , 18, 80-90	2.4	27
32	Soil organic carbon stock assessment for the different cropland land uses in Italy. <i>Biology and Fertility of Soils</i> , 2012 , 48, 9-17	6.1	55
31	Influence of Canopy Management Practices on Vineyard Microclimate: Definition of New Microclimatic Indices. <i>American Journal of Enology and Viticulture</i> , 2012 , 63, 424-430	2.2	3
30	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	6.7	28
29	Correction to Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		4
28	State-dependent errors in a land surface model across biomes inferred from eddy covariance observations on multiple timescales. <i>Ecological Modelling</i> , 2012 , 246, 11-25	3	16
27	A flexible unmanned aerial vehicle for precision agriculture. <i>Precision Agriculture</i> , 2012 , 13, 517-523	5.6	195
26	Use of BIOME-BGC to simulate water and carbon fluxes within Mediterranean macchia. <i>IForest</i> , 2012 , 5, 38-43	1.3	9
25	Surface albedo following biochar application in durum wheat. <i>Environmental Research Letters</i> , 2012 , 7, 014025	6.2	70
24	Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. <i>Journal of Geophysical Research</i> , 2011 , 116,		765
23	Integration of ground and satellite data to model Mediterranean forest processes. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011 , 13, 504-515	7.3	36
22	Climate is changing, can we? A scientific exhibition in schools to understand climate change and raise awareness on sustainability good practices. <i>International Journal of Global Warming</i> , 2011 , 3, 129	0.6	2
21	Biochar as a strategy to sequester carbon and increase yield in durum wheat. <i>European Journal of Agronomy</i> , 2011 , 34, 231-238	5	290

20	Impact of biochar application to a Mediterranean wheat crop on soil microbial activity and greenhouse gas fluxes. <i>Chemosphere</i> , 2011 , 85, 1464-71	8.4	215
19	The Biochar Option to Improve Plant Yields: First Results From Some Field and Pot Experiments in Italy. <i>Italian Journal of Agronomy</i> , 2010 , 5, 3	1.4	76
18	Drought-triggered false ring formation in a Mediterranean shrub. <i>Botany</i> , 2010 , 88, 545-555	1.3	29
17	Validating an integrated strategy to model net land carbon exchange against aircraft flux measurements. <i>Remote Sensing of Environment</i> , 2010 , 114, 1108-1116	13.2	9
16	Carbon Dioxide Emissions of the City Center of Firenze, Italy: Measurement, Evaluation, and Source Partitioning. <i>Journal of Applied Meteorology and Climatology</i> , 2009 , 48, 1940-1947	2.7	57
15	A wireless sensor network for precision viticulture: The NAV system. <i>Computers and Electronics in Agriculture</i> , 2009 , 69, 51-58	6.5	89
14	Precipitation pulses enhance respiration of Mediterranean ecosystems: the balance between organic and inorganic components of increased soil CO ₂ efflux. <i>Global Change Biology</i> , 2009 , 15, 1289-1301	11.4	151
13	Water use of a bioenergy plantation increases in a future high CO ₂ world. <i>Biomass and Bioenergy</i> , 2009 , 33, 200-208	5.3	45
12	Carbon dioxide and acetone air-sea fluxes over the southern Atlantic. <i>Environmental Science & Technology</i> , 2009 , 43, 5218-22	10.3	31
11	The Sky Arrow ERA, an innovative airborne platform to monitor mass, momentum and energy exchange of ecosystems. <i>Annals of Geophysics</i> , 2009 , 49,	1.1	6
10	Compact_Eddy: A compact, low consumption remotely controlled eddy covariance logging system. <i>Computers and Electronics in Agriculture</i> , 2008 , 64, 343-346	6.5	12
9	ASPIS, A Flexible Multispectral System for Airborne Remote Sensing Environmental Applications. <i>Sensors</i> , 2008 , 8, 3240-3256	3.8	5
8	Enhanced Temperature During Grain Filling Reduces Protein Concentration of Durum Wheat. <i>Italian Journal of Agronomy</i> , 2007 , 2, 393	1.4	4
7	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , 2005 , 11, 1424-1439	11.4	2253
6	Physiological and morphological responses of grassland species to elevated atmospheric CO ₂ concentrations in FACE-systems and natural CO ₂ springs. <i>Functional Plant Biology</i> , 2004 , 31, 181-194	2.7	37
5	Free-air CO ₂ enrichment (FACE) of a poplar plantation: the POPFACE fumigation system. <i>New Phytologist</i> , 2001 , 150, 465-476	9.8	206
4	Crop ecosystem responses to climatic change: root and tuberous crops. 2000 , 189-212		10
3	Elevated CO ₂ concentrations and stomatal density: observations from 17 plant species growing in a CO ₂ spring in central Italy. <i>Global Change Biology</i> , 1998 , 4, 17-22	11.4	78

- 2 Free Air CO₂ Enrichment of potato (*Solanum tuberosum* L.): development, growth and yield. *Global Change Biology*, **1998**, 4, 163-172 11.4 139
- 1 Isotope discrimination and photosynthesis of vegetation growing in the Bossoleto CO₂ spring. *Chemosphere*, **1998**, 36, 771-776 8.4 15