

# Francesco Primo Vaccari

## List of Publications by Citations

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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	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , <b>2005</b> , 11, 1424-1439	11.4	2253
72	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> , <b>2011</b> , 116,		765
71	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 171-172, 137-152	5.8	342
70	Intercomparison of UAV, Aircraft and Satellite Remote Sensing Platforms for Precision Viticulture. <i>Remote Sensing</i> , <b>2015</b> , 7, 2971-2990	5	330
69	Biochar as a strategy to sequester carbon and increase yield in durum wheat. <i>European Journal of Agronomy</i> , <b>2011</b> , 34, 231-238	5	290
68	Impact of biochar application to a Mediterranean wheat crop on soil microbial activity and greenhouse gas fluxes. <i>Chemosphere</i> , <b>2011</b> , 85, 1464-71	8.4	215
67	Free-air CO <sub>2</sub> enrichment (FACE) of a poplar plantation: the POPFACE fumigation system. <i>New Phytologist</i> , <b>2001</b> , 150, 465-476	9.8	206
66	A flexible unmanned aerial vehicle for precision agriculture. <i>Precision Agriculture</i> , <b>2012</b> , 13, 517-523	5.6	195
65	Impact of biochar application on plant water relations in <i>Vitis vinifera</i> (L.). <i>European Journal of Agronomy</i> , <b>2014</b> , 53, 38-44	5	192
64	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> , <b>2015</b> , 112, 2788-93	11.5	181
63	Precipitation pulses enhance respiration of Mediterranean ecosystems: the balance between organic and inorganic components of increased soil CO <sub>2</sub> efflux. <i>Global Change Biology</i> , <b>2009</b> , 15, 1289-1301	11.4	151
62	Free Air CO <sub>2</sub> Enrichment of potato ( <i>Solanum tuberosum</i> L.): development, growth and yield. <i>Global Change Biology</i> , <b>1998</b> , 4, 163-172	11.4	139
61	Biochar stimulates plant growth but not fruit yield of processing tomato in a fertile soil. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 207, 163-170	5.7	115
60	A wireless sensor network for precision viticulture: The NAV system. <i>Computers and Electronics in Agriculture</i> , <b>2009</b> , 69, 51-58	6.5	89
59	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> , <b>2018</b> , 15, 1293-1318	4.6	79
58	Elevated CO <sub>2</sub> concentrations and stomatal density: observations from 17 plant species growing in a CO <sub>2</sub> spring in central Italy. <i>Global Change Biology</i> , <b>1998</b> , 4, 17-22	11.4	78
57	The Biochar Option to Improve Plant Yields: First Results From Some Field and Pot Experiments in Italy. <i>Italian Journal of Agronomy</i> , <b>2010</b> , 5, 3	1.4	76

56	Methane and carbon dioxide fluxes and source partitioning in urban areas: the case study of Florence, Italy. <i>Environmental Pollution</i> , <b>2012</b> , 164, 125-31	9.3	73
55	Biochar increases vineyard productivity without affecting grape quality: Results from a four years field experiment in Tuscany. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 201, 20-25	5.7	71
54	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> , <b>2017</b> , 2017, 1-12	1.9	70
53	Surface albedo following biochar application in durum wheat. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 014025	6.2	70
52	Field application of pelletized biochar: Short term effect on the hydrological properties of a silty clay loam soil. <i>Agricultural Water Management</i> , <b>2016</b> , 163, 190-196	5.9	69
51	Carbon Dioxide Emissions of the City Center of Firenze, Italy: Measurement, Evaluation, and Source Partitioning. <i>Journal of Applied Meteorology and Climatology</i> , <b>2009</b> , 48, 1940-1947	2.7	57
50	Soil organic carbon stock assessment for the different cropland land uses in Italy. <i>Biology and Fertility of Soils</i> , <b>2012</b> , 48, 9-17	6.1	55
49	Remote sensing of annual terrestrial gross primary productivity from MODIS: an assessment using the FLUXNET La Thuile data set. <i>Biogeosciences</i> , <b>2014</b> , 11, 2185-2200	4.6	49
48	Water use of a bioenergy plantation increases in a future high CO <sub>2</sub> world. <i>Biomass and Bioenergy</i> , <b>2009</b> , 33, 200-208	5.3	45
47	Physiological and morphological responses of grassland species to elevated atmospheric CO <sub>2</sub> concentrations in FACE-systems and natural CO <sub>2</sub> springs. <i>Functional Plant Biology</i> , <b>2004</b> , 31, 181-194	2.7	37
46	Integration of ground and satellite data to model Mediterranean forest processes. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2011</b> , 13, 504-515	7.3	36
45	Fate of Soil Organic Carbon and Polycyclic Aromatic Hydrocarbons in a Vineyard Soil Treated with Biochar. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 11037-44	10.3	34
44	Long-term soil biological fertility, volatile organic compounds and chemical properties in a vineyard soil after biochar amendment. <i>Geoderma</i> , <b>2019</b> , 344, 127-136	6.7	31
43	Carbon dioxide and acetone air-sea fluxes over the southern Atlantic. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 5218-22	10.3	31
42	Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 211-212, 23-36	5.8	29
41	Drought-triggered false ring formation in a Mediterranean shrub. <i>Botany</i> , <b>2010</b> , 88, 545-555	1.3	29
40	Carbon dioxide balance assessment of the city of Florence (Italy), and implications for urban planning. <i>Landscape and Urban Planning</i> , <b>2013</b> , 120, 138-146	7.7	28
39	Land use change and soil organic carbon dynamics in Mediterranean agro-ecosystems: The case study of Pianosa Island. <i>Geoderma</i> , <b>2012</b> , 175-176, 29-36	6.7	28

38	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> , <b>2012</b> , 18, 80-90	2.4	27
37	Individual plant definition and missing plant characterization in vineyards from high-resolution UAV imagery. <i>European Journal of Remote Sensing</i> , <b>2017</b> , 50, 179-186	2.9	27
36	An energy-biochar chain involving biomass gasification and rice cultivation in Northern Italy. <i>GCB Bioenergy</i> , <b>2013</b> , 5, 192-201	5.6	26
35	Hydrodynamic cavitation as an energy efficient process to increase biochar surface area and porosity: A case study. <i>Journal of Cleaner Production</i> , <b>2019</b> , 210, 159-169	10.3	23
34	Changes in the pattern of polycyclic aromatic hydrocarbons in soil treated with biochar from a multiyear field experiment. <i>Chemosphere</i> , <b>2019</b> , 219, 662-670	8.4	22
33	Hydrochar enhances growth of poplar for bioenergy while marginally contributing to direct soil carbon sequestration. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 1618-1626	5.6	20
32	Black carbon aerosol from biochar threatens its negative emission potential. <i>Global Change Biology</i> , <b>2016</b> , 22, 2313-4	11.4	18
31	Biochar-based nursery substrates: The effect of peat substitution on reduced salinity. <i>Urban Forestry and Urban Greening</i> , <b>2017</b> , 23, 27-34	5.4	17
30	Biochar-macrofauna interplay: Searching for new bioindicators. <i>Science of the Total Environment</i> , <b>2015</b> , 536, 449-456	10.2	16
29	State-dependent errors in a land surface model across biomes inferred from eddy covariance observations on multiple timescales. <i>Ecological Modelling</i> , <b>2012</b> , 246, 11-25	3	16
28	Comparing integrated stable isotope and eddy covariance estimates of water-use efficiency on a Mediterranean successional sequence. <i>Oecologia</i> , <b>2014</b> , 176, 581-94	2.9	15
27	Isotope discrimination and photosynthesis of vegetation growing in the Bossoleto CO <sub>2</sub> spring. <i>Chemosphere</i> , <b>1998</b> , 36, 771-776	8.4	15
26	Durum wheat modeling: The Delphi system, 11 years of observations in Italy. <i>European Journal of Agronomy</i> , <b>2012</b> , 43, 108-118	5	14
25	CrossVit: enhancing canopy monitoring management practices in viticulture. <i>Sensors</i> , <b>2013</b> , 13, 7652-67	3.8	14
24	Biochar improves the fertility of a Mediterranean vineyard without toxic impact on the microbial community. <i>Agronomy for Sustainable Development</i> , <b>2017</b> , 37, 1	6.8	12
23	Monitoring water stress in Mediterranean semi-natural vegetation with satellite and meteorological data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2014</b> , 26, 246-255	7.3	12
22	Durum wheat quality prediction in Mediterranean environments: From local to regional scale. <i>European Journal of Agronomy</i> , <b>2014</b> , 61, 1-9	5	12
21	Compact_Eddy: A compact, low consumption remotely controlled eddy covariance logging system. <i>Computers and Electronics in Agriculture</i> , <b>2008</b> , 64, 343-346	6.5	12

20	Biochar successfully replaces activated charcoal for in vitro culture of two white poplar clones reducing ethylene concentration. <i>Plant Growth Regulation</i> , <b>2013</b> , 69, 43-50	3.2	11
19	Wireless real-time monitoring of malolactic fermentation in wine barrels: the Wireless Sensor Bung system. <i>Australian Journal of Grape and Wine Research</i> , <b>2013</b> , 19, 20-24	2.4	10
18	Impact of Biochar Formulation on the Release of Particulate Matter and on Short-Term Agronomic Performance. <i>Sustainability</i> , <b>2017</b> , 9, 1131	3.6	10
17	Crop ecosystem responses to climatic change: root and tuberous crops. <b>2000</b> , 189-212		10
16	DEVELOPMENT AND APPLICATION OF AN AUTONOMOUS AND FLEXIBLE UNMANNED AERIAL VEHICLE FOR PRECISION VITICULTURE. <i>Acta Horticulturae</i> , <b>2013</b> , 63-69	0.3	9
15	Use of BIOME-BGC to simulate water and carbon fluxes within Mediterranean macchia. <i>IForest</i> , <b>2012</b> , 5, 38-43	1.3	9
14	Validating an integrated strategy to model net land carbon exchange against aircraft flux measurements. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 1108-1116	13.2	9
13	Modeling the impacts of diffuse light fraction on photosynthesis in ORCHIDEE (v5453) land surface model. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 5401-5423	6.3	8
12	The Sky Arrow ERA, an innovative airborne platform to monitor mass, momentum and energy exchange of ecosystems. <i>Annals of Geophysics</i> , <b>2009</b> , 49,	1.1	6
11	ASPIs, A Flexible Multispectral System for Airborne Remote Sensing Environmental Applications. <i>Sensors</i> , <b>2008</b> , 8, 3240-3256	3.8	5
10	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> , <b>2021</b> , 9, 104815	6.8	5
9	Modelling and analyzing the water and carbon dynamics of Mediterranean macchia by the use of ground and remote sensing data. <i>Ecological Modelling</i> , <b>2017</b> , 351, 1-13	3	4
8	Empirical modelling of regional and national durum wheat quality. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 204, 67-78	5.8	4
7	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> , <b>2012</b> , 117, n/a-n/a		4
6	Enhanced Temperature During Grain Filling Reduces Protein Concentration of Durum Wheat. <i>Italian Journal of Agronomy</i> , <b>2007</b> , 2, 393	1.4	4
5	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> , <b>2020</b> , 11, 334	2.8	3
4	Influence of Canopy Management Practices on Vineyard Microclimate: Definition of New Microclimatic Indices. <i>American Journal of Enology and Viticulture</i> , <b>2012</b> , 63, 424-430	2.2	3
3	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> , <b>2011</b> , 3, 129	0.6	2

- 2 THE BIOCHAR - A SOLUTION TO ENHANCE PROCESSING TOMATO PRODUCTION. *Acta Horticulturae*, **2015**, 209-213 0.3
- 1 Examining the bentonite produced in a biodiesel refinery process as soil amendment in a well-draining soil. *Clean Technologies and Environmental Policy*, **2020**, 22, 1855-1870 4.3