

Luca Vitale

List of Publications by Year in descending order

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47
papers

740
citations

471061

17
h-index

580395

25
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48
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48
docs citations

48
times ranked

1172
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of monochromatic red and blue light in tomato early photomorphogenesis and photosynthetic traits. <i>Environmental and Experimental Botany</i> , 2020, 179, 104195.	2.0	74
2	ORCHIDEE-CROP (v0), a new process-based agro-land surface model: model description and evaluation over Europe. <i>Geoscientific Model Development</i> , 2016, 9, 857-873.	1.3	51
3	Remote sensing of LAI, chlorophyll and leaf nitrogen pools of crop- and grasslands in five European landscapes. <i>Biogeosciences</i> , 2013, 10, 6279-6307.	1.3	40
4	Anatomy and photochemical behaviour of Mediterranean <i>Cistus incanus</i> winter leaves under natural outdoor and warmer indoor conditions. <i>Botany</i> , 2011, 89, 677-688.	0.5	39
5	The influence of management and environmental variables on soil N ₂ O emissions in a crop system in Southern Italy. <i>Plant and Soil</i> , 2011, 343, 83-96.	1.8	35
6	The response of ecosystem carbon fluxes to LAI and environmental drivers in a maize crop grown in two contrasting seasons. <i>International Journal of Biometeorology</i> , 2016, 60, 411-420.	1.3	34
7	Paraheliotropism in <i>Robinia pseudoacacia</i> L.: an efficient strategy to optimise photosynthetic performance under natural environmental conditions. <i>Plant Biology</i> , 2008, 10, 194-201.	1.8	33
8	Effect of Salinity on Growth Parameters, Soil Water Potential and Ion Composition in <i>Cucumis melo</i> cv. Huanghemi in North-Western China. <i>Journal of Agronomy and Crop Science</i> , 2017, 203, 41-55.	1.7	29
9	Photosynthesis and photoprotective strategies in <i>Laurus nobilis</i> L. and <i>Quercus ilex</i> L. under summer drought and winter cold. <i>Plant Biosystems</i> , 2008, 142, 472-479.	0.8	28
10	Assessment of Eco-Physiological Performance of <i>Quercus ilex</i> L. Leaves in Urban Area by an Integrated Approach. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	27
11	Growth and gas exchange response to water shortage of a maize crop on different soil types. <i>Acta Physiologiae Plantarum</i> , 2009, 31, 331-341.	1.0	24
12	Seasonal changes in photosynthetic activity and photochemical efficiency of the Mediterranean shrub <i>Phillyrea angustifolia</i> L. <i>Plant Biosystems</i> , 2012, 146, 443-450.	0.8	24
13	Metal compartmentalization in different biomass portions of <i>Helianthus annuus</i> L. and <i>Sorghum bicolor</i> L. grown in an agricultural field inside an urban fabric. <i>Applied Soil Ecology</i> , 2017, 121, 118-126.	2.1	24
14	Gas exchange and leaf metabolism of irrigated maize at different growth stages. <i>Plant Biosystems</i> , 2011, 145, 485-494.	0.8	23
15	Effects of water stress on gas exchange of field grown <i>Zea mays</i> L. in Southern Italy: an analysis at canopy and leaf level. <i>Acta Physiologiae Plantarum</i> , 2007, 29, 317-326.	1.0	20
16	Effects of different light quality and biofertilizers on structural and physiological traits of spinach plants. <i>Photosynthetica</i> , 2020, 58, 932-943.	0.9	20
17	Variations of agricultural soil quality during the growth stages of sorghum and sunflower. <i>Applied Soil Ecology</i> , 2020, 152, 103569.	2.1	17
18	The Ageing Process Affects the Antioxidant Defences and the Poly (ADPribose)ylation Activity in <i>Cistus Incanus</i> L. Leaves. <i>Antioxidants</i> , 2019, 8, 528.	2.2	15

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19	Suitability of two types of organic wastes for the growth of sclerophyllous shrubs on limestone debris: A mesocosm trial. <i>Science of the Total Environment</i> , 2010, 408, 1508-1514.	3.9	14
20	Winter and summer leaves of <i>Cistus incanus</i> : differences in leaf morphofunctional traits, photosynthetic energy partitioning, and poly(ADP-ribose) polymerase (PARP) activity. <i>Botany</i> , 2013, 91, 805-813.	0.5	14
21	Fertilizer type influences tomato yield and soil N₂&O emissions. <i>Plant, Soil and Environment</i> , 2017, 63, 105-110.	1.0	13
22	Impact of Anthropic Activities on Soil Quality under Different Land Uses. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8423.	1.2	13
23	Photo-Protective Mechanisms and the Role of Poly (ADP-Ribose) Polymerase Activity in a Facultative CAM Plant Exposed to Long-Term Water Deprivation. <i>Plants</i> , 2020, 9, 1192.	1.6	11
24	Soil Fertilization with Urea Has Little Effect on Seed Quality but Reduces Soil N ₂ O Emissions from a Hemp Cultivation. <i>Agriculture (Switzerland)</i> , 2020, 10, 240.	1.4	11
25	Photosynthetic response of <i>Quercus ilex</i> L. plants grown on compost and exposed to increasing photon flux densities and elevated CO ₂ . <i>Photosynthetica</i> , 2005, 43, 615-619.	0.9	10
26	The efficient physiological strategy of a novel tomato genotype to adapt to chronic combined water and heat stress. <i>Plant Biology</i> , 2022, 24, 62-74.	1.8	9
27	Influence of irradiance on photosynthesis and PSII photochemical efficiency in maize during short-term exposure at high CO ₂ concentration. <i>Photosynthetica</i> , 2011, 49, 267-274.	0.9	8
28	Effects of 3,4-dimethylpyrazole phosphate-added nitrogen fertilizers on crop growth and N₂&O emissions in Southern Italy. <i>Plant, Soil and Environment</i> , 2013, 59, 517-523.	1.0	8
29	Water regime affects soil N ₂ O emission and tomato yield grown under different types of fertilisers. <i>Italian Journal of Agronomy</i> , 0, , 74-79.	0.4	8
30	Cross-correlations of Biogenic Volatile Organic Compounds (BVOC) emissions typify different phenological stages and stressful events in a Mediterranean Sorghum plantation. <i>Agricultural and Forest Meteorology</i> , 2021, 303, 108380.	1.9	8
31	Using remote sensing information to enhance the understanding of the coupling of terrestrial ecosystem evapotranspiration and photosynthesis on a global scale. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 100, 102329.	1.4	8
32	Effects of heat stress on gas exchange and photosystem II (PSII) photochemical activity of <i>Phillyrea angustifolia</i> exposed to elevated CO ₂ and subsaturating irradiance. <i>Botany</i> , 2008, 86, 435-441.	0.5	7
33	Effects of Irrigation on N ₂ O Emissions in a Maize Crop Grown on Different Soil Types in Two Contrasting Seasons. <i>Agriculture (Switzerland)</i> , 2020, 10, 623.	1.4	7
34	Light Spectral Composition Influences Structural and Eco-Physiological Traits of <i>Solanum lycopersicum</i> L. cv. "Microtom" in Response to High-LET Ionizing Radiation. <i>Plants</i> , 2021, 10, 1752.	1.6	7
35	Morphological and physiological modifications of <i>Cistus salvifolius</i> L. winter leaves in response to the rise in winter temperatures. <i>Plant Biosystems</i> , 2014, 148, 1093-1101.	0.8	6
36	Chilling-induced reduction of photosynthesis is mitigated by exposure to elevated CO ₂ concentrations. <i>Photosynthetica</i> , 2018, 56, 1259-1267.	0.9	6

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37	Effects of the Fertilizer Added with DMPP on Soil Nitrous Oxide Emissions and Microbial Functional Diversity. <i>Agriculture (Switzerland)</i> , 2021, 11, 12.	1.4	6
38	Ecosystem carbon fluxes of a ryegrass and clover fodder crop in a Mediterranean environment. <i>Photosynthetica</i> , 2011, 49, .	0.9	4
39	Role of Poly(ADP-Ribose) Polymerase (PARP) Enzyme in the Systemic Acquired Acclimation Induced by Light Stress in <i>Phaseolus vulgaris</i> L. <i>Plants</i> , 2022, 11, 1870.	1.6	2
40	Biogenic Volatile Organic Compounds (BVOCs) exchanges over <i>Sorghum bicolor</i> L. during a whole growing season in the Southern Europe. , 2019, , .		1
41	Aerated Buffalo Slurry Improves Spinach Plant Growth and Mitigates CO ₂ and N ₂ O Emissions from Soil. <i>Agriculture (Switzerland)</i> , 2021, 11, 758.	1.4	1
42	Paraheliotropism in <i>Robinia pseudoacacia</i> Plants: An Efficient Means to Cope with Photoinhibition. , 2008, , 1403-1406.		1
43	Land-atmosphere exchange of N ₂ O, CH ₄ and CO ₂ from a Mediterranean rotation cropland. , 2019, , .		0
44	Effects of Nitrogen and/or Sulphur Deprivation on the Regulation of Photosynthesis in Barley Seedlings. , 2008, , 1603-1606.		0
45	Photosynthetic Adaptive Strategies in Evergreen and Semi-Deciduous Species of Mediterranean Maquis During Winter. , 0, , .		0
46	Agriculture 2.0: Light Emitting Diode (LED), Light Quality, and Crop Production in Controlled Environment Facilities. <i>Acta Scientific Agriculture</i> , 2019, 3, 154-154.	0.2	0
47	Process-oriented simulation and observations of N ₂ O emission from intensively managed agricultural cropping system. , 2021, , .		0