

Marcello Vitale

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,987
citations

201385

27
h-index

253896

43
g-index

63
all docs

63
docs citations

63
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	Legislative and functional aspects of different metrics used for ozone risk assessment to forests. <i>Environmental Pollution</i> , 2022, 295, 118690.	3.7	9
2	Nitrogen Budget and Statistical Entropy Analysis of the Tiber River Catchment, a Highly Anthropized Environment. <i>Soil Systems</i> , 2022, 6, 17.	1.0	1
3	Ozone modelling and mapping for risk assessment: An overview of different approaches for human and ecosystems health. <i>Environmental Research</i> , 2022, 211, 113048.	3.7	31
4	Impact of ground-level ozone on Mediterranean forest ecosystems health. <i>Science of the Total Environment</i> , 2021, 783, 147063.	3.9	12
5	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. <i>Science Advances</i> , 2020, 6, eabc1176.	4.7	181
6	Preface: Climate Change Impact on Plant Ecology. <i>Climate</i> , 2020, 8, 59.	1.2	1
7	A New Wetness Index to Evaluate the Soil Water Availability Influence on Gross Primary Production of European Forests. <i>Climate</i> , 2019, 7, 42.	1.2	4
8	Growing season extension affects ozone uptake by European forests. <i>Science of the Total Environment</i> , 2019, 669, 1043-1052.	3.9	27
9	Impacts of air pollution on human and ecosystem health, and implications for the National Emission Ceilings Directive: Insights from Italy. <i>Environment International</i> , 2019, 125, 320-333.	4.8	113
10	Plant Species-Specific Litter Decomposition Rates Are Directly Affected by Tropospheric Ozone: Analysis of Trends and Modelling. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	12
11	Commentary: EPA's proposed expansion of dose-response analysis is a positive step towards improving its ecological risk assessment. <i>Environmental Pollution</i> , 2019, 246, 566-570.	3.7	30
12	A thermodynamic model for plant growth, validated with <i>Pinus sylvestris</i> data. <i>Ecological Modelling</i> , 2019, 391, 53-62.	1.2	4
13	An innovative approach to disentangling the effect of management and environment on tree cover and density of protected areas in African savanna. <i>Forest Ecology and Management</i> , 2018, 419-420, 1-9.	1.4	5
14	Ozone exposure affects tree defoliation in a continental climate. <i>Science of the Total Environment</i> , 2017, 596-597, 396-404.	3.9	19
15	The importance of interspecific competition in the actual and future distributions of plant species assessed by a 2-D grid agent modelling. <i>Ecological Modelling</i> , 2017, 360, 399-409.	1.2	1
16	Response on "comparing concentration-based ($\langle AOT \rangle$) and stomatal uptake ($\langle PODY \rangle$) metrics for ozone risk assessment to European forests". <i>Global Change Biology</i> , 2017, 23, e3-e4.	4.2	0
17	Comparing concentration-based (AOT40) and stomatal uptake (PODY) metrics for ozone risk assessment to European forests. <i>Global Change Biology</i> , 2016, 22, 1608-1627.	4.2	83
18	Physiological differences of five <i>Q. robur</i> oak (<i>Q. robur</i>) local climate. <i>Plant Species Biology</i> , 2016, 31, 196-210.	0.6	13

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19	The importance of local scale for assessing, monitoring and predicting of air quality in urban areas. <i>Sustainable Cities and Society</i> , 2016, 26, 150-160.	5.1	39
20	A multi-sites analysis on the ozone effects on Gross Primary Production of European forests. <i>Science of the Total Environment</i> , 2016, 556, 1-11.	3.9	63
21	Metrics of ozone risk assessment for Southern European forests: Canopy moisture content as a potential plant response indicator. <i>Atmospheric Environment</i> , 2015, 120, 182-190.	1.9	42
22	Modeling of early stage litter decomposition in Mediterranean mixed forests: functional aspects affected by local climate. <i>IForest</i> , 2015, 8, 517-525.	0.5	2
23	Assessing the effect of management changes and environmental features on the spatio-temporal pattern of fire in an African Savanna. <i>Journal for Nature Conservation</i> , 2015, 28, 1-10.	0.8	10
24	Quality of Commercial Flavoured Oils and Seed Oils Using a Widespread Analytical Protocol. <i>Journal of Food Research</i> , 2014, 3, 78.	0.1	0
25	Discussion on the new functions for estimating AOT40 from passive sampling. <i>Atmospheric Environment</i> , 2014, 98, 704-706.	1.9	2
26	Plant ecology and conservation in international cooperation: Approaches and methodologies. <i>Plant Biosystems</i> , 2014, 148, 517-518.	0.8	1
27	Analysing the relationship between land units and plant communities: The case of Socotra Island (Yemen). <i>Plant Biosystems</i> , 2014, 148, 529-539.	0.8	13
28	Classifying and Mapping Potential Distribution of Forest Types Using a Finite Mixture Model. <i>Folia Geobotanica</i> , 2014, 49, 313-335.	0.4	18
29	Future impacts of nitrogen deposition and climate change scenarios on forest crown defoliation. <i>Environmental Pollution</i> , 2014, 194, 171-180.	3.7	39
30	Random Forests Analysis: a Useful Tool for Defining the Relative Importance of Environmental Conditions on Crown Defoliation. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	32
31	New functions for estimating AOT40 from ozone passive sampling. <i>Atmospheric Environment</i> , 2014, 95, 82-88.	1.9	8
32	The use of spatial ecological modelling as a tool for improving the assessment of geographic range size of threatened species. <i>Journal for Nature Conservation</i> , 2013, 21, 48-55.	0.8	22
33	A methodological approach for assessing the effects of disturbance factors on the conservation status of Mediterranean coastal dune systems. <i>Applied Vegetation Science</i> , 2013, 16, 333-342.	0.9	31
34	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. <i>Global Change Biology</i> , 2013, 19, 2427-2443.	4.2	95
35	Assessing ozone and nitrogen impact on net primary productivity with a Generalised non-Linear Model. <i>Environmental Pollution</i> , 2013, 172, 250-263.	3.7	17
36	Vegetation mapping from high-resolution satellite images in the heterogeneous arid environments of Socotra Island (Yemen). <i>Journal of Applied Remote Sensing</i> , 2013, 7, 073527.	0.6	22

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37	Model-based assessment of ecological adaptations of three forest tree species growing in Italy and impact on carbon and water balance at national scale under current and future climate scenarios. <i>IForest</i> , 2012, 5, 235-246.	0.5	28
38	Urban ecosystem services: tree diversity and stability of tropospheric ozone removal. <i>Ecological Applications</i> , 2012, 22, 349-360.	1.8	115
39	Evaluating the effects of climate change on tree species abundance and distribution in the Italian peninsula. <i>Applied Vegetation Science</i> , 2011, 14, 242-255.	0.9	62
40	Is cellular automata algorithm able to predict the future dynamical shifts of tree species in Italy under climate change scenarios? A methodological approach. <i>Ecological Modelling</i> , 2011, 222, 925-934.	1.2	19
41	Developing conservation strategies for endemic tree species when faced with time and data constraints: <i>Boswellia</i> spp. on Socotra (Yemen). <i>Biodiversity and Conservation</i> , 2011, 20, 1483-1499.	1.2	34
42	The ACCENT-VOCBAS field campaign on biosphere-atmosphere interactions in a Mediterranean ecosystem of Castelporziano (Rome): site characteristics, climatic and meteorological conditions, and eco-physiology of vegetation. <i>Biogeosciences</i> , 2009, 6, 1043-1058.	1.3	42
43	Comparison of seasonal variations of ozone exposure and fluxes in a Mediterranean Holm oak forest between the exceptionally dry 2003 and the following year. <i>Environmental Pollution</i> , 2009, 157, 1737-1744.	3.7	58
44	Physiological responses of <i>Quercus ilex</i> Leaves to Water Stress and Acute Ozone Exposure Under Controlled Conditions. <i>Water, Air, and Soil Pollution</i> , 2008, 189, 113-125.	1.1	35
45	Measuring, modelling and testing ozone exposure, flux and effects on vegetation in southern European conditions – What does not work? A review from Italy. <i>Environmental Pollution</i> , 2007, 146, 648-658.	3.7	67
46	New approaches to study the relationship between stomatal conductance and environmental factors under Mediterranean climatic conditions. <i>Atmospheric Environment</i> , 2007, 41, 5385-5397.	1.9	15
47	Resilience assessment on <i>Phillyrea angustifolia</i> L. maquis undergone to experimental fire through a big-leaf modelling approach. <i>Ecological Modelling</i> , 2007, 203, 387-394.	1.2	9
48	Estimates of potential ozone stomatal uptake in mature trees of <i>Quercus ilex</i> in a Mediterranean climate. <i>Environmental and Experimental Botany</i> , 2007, 59, 235-241.	2.0	41
49	Different ability of three Mediterranean oak species to tolerate progressive water stress. <i>Photosynthetica</i> , 2006, 44, 387.	0.9	64
50	Ozone uptake by an evergreen Mediterranean Forest () in Italy. Part I: Micrometeorological flux measurements and flux partitioning. <i>Atmospheric Environment</i> , 2005, 39, 3255-3266.	1.9	94
51	Ozone uptake by an evergreen mediterranean forest (L.) in Italy – Part II: flux modelling. Upscaling leaf to canopy ozone uptake by a process-based model. <i>Atmospheric Environment</i> , 2005, 39, 3267-3278.	1.9	33
52	Role of changing environmental parameters in leaf gas exchange of <i>Arbutus unedo</i> L. assessed by field and laboratory measurements. <i>Photosynthetica</i> , 2005, 43, 99-106.	0.9	7
53	Monitoring tropospheric ozone impact on plants in natural and urban areas with a Mediterranean climate. <i>Plant Biosystems</i> , 2005, 139, 265-278.	0.8	9
54	Modelling leaf gas exchanges to predict functional trends in Mediterranean <i>Quercus ilex</i> forest under climatic changes in temperature. <i>Ecological Modelling</i> , 2003, 166, 123-134.	1.2	22

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55	Physiological response of <i>Pinus halepensis</i> needles under ozone and water stress conditions. <i>Physiologia Plantarum</i> , 2001, 113, 249-257.	2.6	34
56	Ecophysiological characterization of <i>citrus sinensis</i> (L.) Osbeck and relationships with type and amount of biogenic emissions. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 699-703.	0.3	5
57	Intrazeolitic Photochemical Charge Separation for Ru(bpy) ₃ ²⁺ -Bipyridinium System: A Role of the Zeolite Structure. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2408-2416.	1.2	60
58	O ₃ and O ₃ +CO ₂ effects on a mediterranean evergreen broadleaf tree, holm oak (<i>Quercus ilex</i> L.). <i>Chemosphere</i> , 1998, 36, 801-806.	4.2	45
59	Morpho-functional characteristics of <i>Quercus ilex</i> L. leaves of different age and their ecophysiological behaviour during different seasons. <i>Plant Biosystems</i> , 1997, 131, 149-158.	0.8	24
60	Ecophysiological studies of Mediterranean plant species at the Castelporziano estate. <i>Atmospheric Environment</i> , 1997, 31, 51-60.	1.9	62
61	Global Change and Effects on Vegetation: Auto- and Synecological Studies. <i>Giornale Botanico Italiano</i> (Florence, Italy: 1962), 1996, 130, 508-508.	0.0	0