Marcello Vitale

List of Publications by Year in descending order

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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	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. Science Advances, 2020, 6, eabc1176.	4.7	181
2	Urban ecosystem services: tree diversity and stability of tropospheric ozone removal. Ecological Applications, 2012, 22, 349-360.	1.8	115
3	Impacts of air pollution on human and ecosystem health, and implications for the National Emission Ceilings Directive: Insights from Italy. Environment International, 2019, 125, 320-333.	4.8	113
4	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. Global Change Biology, 2013, 19, 2427-2443.	4.2	95
5	Ozone uptake by an evergreen Mediterranean Forest () in Italy. Part I: Micrometeorological flux measurements and flux partitioning. Atmospheric Environment, 2005, 39, 3255-3266.	1.9	94
6	Comparing concentrationâ€based (AOT40) and stomatal uptake (PODY) metrics for ozone risk assessment to European forests. Global Change Biology, 2016, 22, 1608-1627.	4.2	83
7	Measuring, modelling and testing ozone exposure, flux and effects on vegetation in southern European conditionsâ€"What does not work? A review from Italy. Environmental Pollution, 2007, 146, 648-658.	3.7	67
8	Different ability of three Mediterranean oak species to tolerate progressive water stress. Photosynthetica, 2006, 44, 387.	0.9	64
9	A multi-sites analysis on the ozone effects on Gross Primary Production of European forests. Science of the Total Environment, 2016, 556, 1-11.	3.9	63
10	Ecophysiological studies of Mediterranean plant species at the Castelporziano estate. Atmospheric Environment, 1997, 31, 51-60.	1.9	62
11	Evaluating the effects of climate change on tree species abundance and distribution in the Italian peninsula. Applied Vegetation Science, 2011, 14, 242-255.	0.9	62
12	Intrazeolitic Photochemical Charge Separation for Ru(bpy)32+â^'Bipyridinium System:Â Role of the Zeolite Structure. Journal of Physical Chemistry B, 1999, 103, 2408-2416.	1.2	60
13	Comparison of seasonal variations of ozone exposure and fluxes in a Mediterranean Holm oak forest between the exceptionally dry 2003 and the following year. Environmental Pollution, 2009, 157, 1737-1744.	3.7	58
14	O3 and O3+CO2 effects on a mediterranean evergreen broadleaf tree, holm oak (Quercus ilex L.). Chemosphere, 1998, 36, 801-806.	4.2	45
15	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. Biogeosciences, 2009, 6, 1043-1058.	1.3	42
16	Metrics of ozone risk assessment for Southern European forests: Canopy moisture content as a potential plant response indicator. Atmospheric Environment, 2015, 120, 182-190.	1.9	42
17	Estimates of potential ozone stomatal uptake in mature trees of Quercus ilex in a Mediterranean climate. Environmental and Experimental Botany, 2007, 59, 235-241.	2.0	41
18	Future impacts of nitrogen deposition and climate change scenarios on forest crown defoliation. Environmental Pollution, 2014, 194, 171-180.	3.7	39

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19	The importance of local scale for assessing, monitoring and predicting of air quality in urban areas. Sustainable Cities and Society, 2016, 26, 150-160.	5.1	39
20	Physiological responses of Quercus ilex Leaves to Water Stress and Acute Ozone Exposure Under Controlled Conditions. Water, Air, and Soil Pollution, 2008, 189, 113-125.	1.1	35
21	Physiological response of Pinus halepensis needles under ozone and water stress conditions. Physiologia Plantarum, 2001, 113, 249-257.	2.6	34
22	Developing conservation strategies for endemic tree species when faced with time and data constraints: Boswellia spp. on Socotra (Yemen). Biodiversity and Conservation, 2011, 20, 1483-1499.	1.2	34
23	Ozone uptake by an evergreen mediterranean forest (L.) in Italyâ€"Part II: flux modelling. Upscaling leaf to canopy ozone uptake by a process-based model. Atmospheric Environment, 2005, 39, 3267-3278.	1.9	33
24	Random Forests Analysis: a Useful Tool for Defining the Relative Importance of Environmental Conditions on Crown Defoliation. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	32
25	A methodological approach for assessing the effects of disturbance factors on the conservation status of Mediterranean coastal dune systems. Applied Vegetation Science, 2013, 16, 333-342.	0.9	31
26	Ozone modelling and mapping for risk assessment: An overview of different approaches for human and ecosystems health. Environmental Research, 2022, 211, 113048.	3.7	31
27	Commentary: EPA's proposed expansion of dose-response analysis is a positive step towards improving its ecological risk assessment. Environmental Pollution, 2019, 246, 566-570.	3.7	30
28	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. IForest, 2012, 5, 235-246.	0.5	28
29	Growing season extension affects ozone uptake by European forests. Science of the Total Environment, 2019, 669, 1043-1052.	3.9	27
30	Morpho-functional characteristics ofQuercus ilexL. leaves of different age and their ecophysiological behaviour during different seasons. Plant Biosystems, 1997, 131, 149-158.	0.8	24
31	Modelling leaf gas exchanges to predict functional trends in Mediterranean Quercus Ilex forest under climatic changes in temperature. Ecological Modelling, 2003, 166, 123-134.	1.2	22
32	The use of spatial ecological modelling as a tool for improving the assessment of geographic range size of threatened species. Journal for Nature Conservation, 2013, 21, 48-55.	0.8	22
33	Vegetation mapping from high-resolution satellite images in the heterogeneous arid environments of Socotra Island (Yemen). Journal of Applied Remote Sensing, 2013, 7, 073527.	0.6	22
34	Is cellular automata algorithm able to predict the future dynamical shifts of tree species in Italy under climate change scenarios? A methodological approach. Ecological Modelling, 2011, 222, 925-934.	1.2	19
35	Ozone exposure affects tree defoliation in a continental climate. Science of the Total Environment, 2017, 596-597, 396-404.	3.9	19
36	Classifying and Mapping Potential Distribution of Forest Types Using a Finite Mixture Model. Folia Geobotanica, 2014, 49, 313-335.	0.4	18

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37	Assessing ozone and nitrogen impact on net primary productivity with a Generalised non-Linear Model. Environmental Pollution, 2013, 172, 250-263.	3.7	17
38	New approaches to study the relationship between stomatal conductance and environmental factors under Mediterranean climatic conditions. Atmospheric Environment, 2007, 41, 5385-5397.	1.9	15
39	Analysing the relationship between land units and plant communities: The case of Socotra Island (Yemen). Plant Biosystems, 2014, 148, 529-539.	0.8	13
40	Physiological differences of five <scp>H</scp>olm oak (<scp>Q</scp>uercus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (il local climate. Plant Species Biology, 2016, 31, 196-210.	0.6	13
41	Plant Species-Specific Litter Decomposition Rates Are Directly Affected by Tropospheric Ozone: Analysis of Trends and Modelling. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	12
42	Impact of ground-level ozone on Mediterranean forest ecosystems health. Science of the Total Environment, 2021, 783, 147063.	3.9	12
43	Assessing the effect of management changes and environmental features on the spatio- temporal pattern of fire in an African Savanna. Journal for Nature Conservation, 2015, 28, 1-10.	0.8	10
44	Monitoring tropospheric ozone impact on plants in natural and urban areas with a Mediterranean climate. Plant Biosystems, 2005, 139, 265-278.	0.8	9
45	Resilience assessment on Phillyrea angustifolia L. maquis undergone to experimental fire through a big-leaf modelling approach. Ecological Modelling, 2007, 203, 387-394.	1.2	9
46	Legislative and functional aspects of different metrics used for ozone risk assessment to forests. Environmental Pollution, 2022, 295, 118690.	3.7	9
47	New functions for estimating AOT40 from ozone passive sampling. Atmospheric Environment, 2014, 95, 82-88.	1.9	8
48	Role of changing environmental parameters in leaf gas exchange of Arbutus unedo L. assessed by field and laboratory measurements. Photosynthetica, 2005, 43, 99-106.	0.9	7
49	Ecophysiological characterization of citrus sinensis (L.) Osbeck and relationships with type and amount of biogenic emissions. Physics and Chemistry of the Earth, 1999, 24, 699-703.	0.3	5
50	An innovative approach to disentangling the effect of management and environment on tree cover and density of protected areas in African savanna. Forest Ecology and Management, 2018, 419-420, 1-9.	1.4	5
51	A New Wetness Index to Evaluate the Soil Water Availability Influence on Gross Primary Production of European Forests. Climate, 2019, 7, 42.	1.2	4
52	A thermodynamic model for plant growth, validated with Pinus sylvestris data. Ecological Modelling, 2019, 391, 53-62.	1.2	4
53	Discussion on the new functions for estimating AOT40 from passive sampling. Atmospheric Environment, 2014, 98, 704-706.	1.9	2
54	Modeling of early stage litter decomposition in Mediterranean mixed forests: functional aspects affected by local climate. IForest, 2015, 8, 517-525.	0.5	2

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55	Plant ecology and conservation in international cooperation: Approaches and methodologies. Plant Biosystems, 2014, 148, 517-518.	0.8	1
56	The importance of interspecific competition in the actual and future distributions of plant species assessed by a 2-D grid agent modelling. Ecological Modelling, 2017, 360, 399-409.	1.2	1
57	Preface: Climate Change Impact on Plant Ecology. Climate, 2020, 8, 59.	1.2	1
58	Nitrogen Budget and Statistical Entropy Analysis of the Tiber River Catchment, a Highly Anthropized Environment. Soil Systems, 2022, 6, 17.	1.0	1
59	Global Change and Effects on Vegetation: Auto- and Synecological Studies. Giornale Botanico Italiano (Florence, Italy: 1962), 1996, 130, 508-508.	0.0	0
60	Quality of Commercial Flavoured Oils and Seed Oils Using a Widespread Analytical Protocol. Journal of Food Research, 2014, 3, 78.	0.1	0
61	Response on â€˜comparing concentrationâ€based (<scp>AOT</scp>40) and stomatal uptake (<scp>PODY</scp>) metrics for ozone risk assessment to European forestsâ€™. Global Change Biology, 2017, 23, e3-e4.	4.2	0