Donatella Spano

List of Publications by Year
in descending order

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64 papers	3,984 citations	236925 25 h-index	123424 61 g-index
67 all docs	67 docs citations	67 times ranked	5773 citing authors

#	Article	IF	Citations
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
2	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. Agricultural and Forest Meteorology, 2013, 171-172, 137-152.	4.8	424
3	Water Scarcity and Future Challenges for Food Production. Water (Switzerland), 2015, 7, 975-992.	2.7	410
4	A review of models and micrometeorological methods used to estimate wetland evapotranspiration. Hydrological Processes, 2004, 18, 2071-2101.	2.6	286
5	Response of plant species richness and primary productivity in shrublands along a northâ€“south gradient in Europe to seven years of experimental warming and drought: reductions in primary productivity in the heat and drought year of 2003. Global Change Biology, 2007, 13, 2563-2581.	9.5	211
6	Chilling and forcing model to predict bud-burst of crop and forest species. Agricultural and Forest Meteorology, 2004, 126, 1-13.	4.8	191
7	Using CERES-Wheat to simulate durum wheat production and phenology in Southern Sardinia, Italy. Field Crops Research, 2011, 120, 179-188.	5.1	151
8	Determining degree-day thresholds from field observations. International Journal of Biometeorology, 1999, 42, 177-182.	3.0	140
9	Sustainable urban metabolism as a link between bio-physical sciences and urban planning: The BRIDGE project. Landscape and Urban Planning, 2013, 112, 100-117.	7.5	131
10	Assessing exposure of human and ecological values to wildfire in Sardinia, Italy. International Journal of Wildland Fire, 2013, 22, 549.	2.4	113
11	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. New Phytologist, 2012, 194, 775-783.	7.3	111
12	Evaluating alternative fuel treatment strategies to reduce wildfire losses in a Mediterranean area. Forest Ecology and Management, 2016, 368, 207-221.	3.2	81
13	Assessing Climate Change Impacts on Wildfire Exposure in Mediterranean Areas. Risk Analysis, 2017, 37, 1898-1916.	2.7	72
14	Analyzing spatiotemporal changes in wildfire regime and exposure across a Mediterranean fire-prone area. Natural Hazards, 2014, 71, 1389-1418.	3.4	64
15	Carbon footprint assessment on a mature vineyard. Agricultural and Forest Meteorology, 2015, 214-215, 350-356.	4.8	60
16	Carbon and nitrogen balances for six shrublands across Europe. Global Biogeochemical Cycles, 2009, 23, .	4.9	57
17	Modeling the effects of different fuel treatment mosaics on wildfire spread and behavior in a Mediterranean agro-pastoral area. Journal of Environmental Management, 2018, 212, 490-505.	7.8	52
18	Predicting wildfire spread and behaviour in Mediterranean landscapes. International Journal of Wildland Fire, 2016, 25, 1015.	2.4	50

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19	Specific leaf area and hydraulic traits explain niche segregation along an aridity gradient in Mediterranean woody species. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 21, 23-30.	2.7	47
20	Analyzing seasonal patterns of wildfire exposure factors in Sardinia, Italy. Environmental Monitoring and Assessment, 2015, 187, 4175.	2.7	45
21	A fuel dryness index for grassland fire-danger assessment. Agricultural and Forest Meteorology, 2006, 139, 1-11.	4.8	42
22	Assessing Landscape Scale Wildfire Exposure for Highly Valued Resources in a Mediterranean Area. Environmental Management, 2015, 55, 1200-1216.	2.7	41
23	Effect of monospecific and mixed Mediterranean tree plantations on soil microbial community and biochemical functioning. Applied Soil Ecology, 2019, 140, 78-88.	4.3	34
24	Contribution of biological crust to soil CO2 efflux in a Mediterranean shrubland ecosystem. Geoderma, 2017, 289, 11-19.	5.1	31
25	Evaluating fire modelling systems in recent wildfires of the Golestan National Park, Iran. Forestry, 2016, 89, 136-149.	2.3	28
26	A modelling platform for climate change impact on local and regional crop water requirements. Agricultural Water Management, 2021, 255, 107005.	5.6	27
27	Assessing temporal variation of primary and ecosystem production in two Mediterranean forests using a modified 3-PG model. Annals of Forest Science, 2013, 70, 729-741.	2.0	26
28	Estimating daily forest carbon fluxes using a combination of ground and remotely sensed data. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 266-279.	3.0	26
29	Assessment of Irrigated Agriculture Vulnerability under Climate Change in Southern Italy. Water (Switzerland), 2018, 10, 209.	2.7	25
30	Gas exchange and JIP-test parameters of two Mediterranean maquis species are affected by sea spray and ozone interaction. Environmental and Experimental Botany, 2011, 73, 80-88.	4.2	24
31	A wildfire risk oriented GIS tool for mapping Rural-Urban Interfaces. Environmental Modelling and Software, 2017, 94, 36-47.	4.5	24
32	Model for Estimating Evaporation and Transpiration from Row Crops. Journal of Irrigation and Drainage Engineering - ASCE, 2001, 127, 339-345.	1.0	23
33	Soil organic carbon in Italian forests and agroecosystems: Estimating current stock and future changes with a spatial modelling approach. Agricultural and Forest Meteorology, 2019, 278, 107654.	4.8	21
34	SIMETAW# - a Model for Agricultural Water Demand Planning. Water Resources Management, 2016, 30, 541-557.	3.9	20
35	Impact of climate change on staple food crop production in Nigeria. Climatic Change, 2015, 132, 321-336.	3.6	19
36	Coupling wildfire spread and erosion models to quantify post-fire erosion before and after fuel treatments. International Journal of Wildland Fire, 2019, 28, 687.	2.4	19

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37	Contrasting effects of nitrogen addition on soil respiration in two Mediterranean ecosystems. Environmental Science and Pollution Research, 2017, 24, 26160-26171.	5.3	15
38	Analyzing the recent dynamics of wildland fires in Quercus suber L. woodlands in Sardinia (Italy), Corsica (France) and Catalonia (Spain). European Journal of Forest Research, 2019, 138, 415-431.	2.5	15
39	Modelling the biogenic CO 2 exchange in urban and non-urban ecosystems through the assessment of light-response curve parameters. Agricultural and Forest Meteorology, 2017, 236, 113-122.	4.8	14
40	Modeling high-resolution climate change impacts on wheat and maize in Italy. Climate Risk Management, 2021, 33, 100339.	3.2	13
41	Urban metabolism and climate change: A planning support system. International Journal of Applied Earth Observation and Geoinformation, 2014, 26, 447-457.	2.8	12
42	Investigating the Climate-Related Risk of Forest Fires for Mediterranean Islandsâ€™ Blue Economy. Sustainability, 2021, 13, 10004.	3.2	12
43	A remote sensing and modeling integrated approach for constructing continuous time series of daily actual evapotranspiration. Agricultural Water Management, 2022, 260, 107320.	5.6	12
44	Procedures to Develop a Standardized Reference Evapotranspiration Zone Map. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, .	1.0	11
45	Tree seedling vitality improves with functional diversity in a Mediterranean common garden experiment. Forest Ecology and Management, 2018, 409, 614-633.	3.2	10
46	Daily Actual Evapotranspiration Estimation in a Mediterranean Ecosystem from Landsat Observations Using SEBAL Approach. Forests, 2021, 12, 189.	2.1	9
47	Using energy balance data for assessing evapotranspiration and crop coefficients in a Mediterranean vineyard. Irrigation Science, 2016, 34, 397-408.	2.8	8
48	Carbon, Water and Energy Fluxes of Terrestrial Ecosystems in Italy. Environmental Science and Engineering, 2015, , 11-45.	0.2	8
49	Mediterranean Phenology. , 2013, , 173-196.		8
50	Corrigendum to â€œChilling and forcing model to predict bud-burst of crop and forest speciesâ€•[Agric. For. Meteorol. 126 (2004) 1â€“13]. Agricultural and Forest Meteorology, 2005, 129, 211.	4.8	7
51	Nitrogen Deposition Effects on Soil Properties, Microbial Abundance, and Litter Decomposition Across Three Shrublands Ecosystems From the Mediterranean Basin. Frontiers in Environmental Science, 2021, 9, .	3.3	7
52	Optimizing Genetic Parameters of CSM-CERES Wheat and CSM-CERES Maize for Durum Wheat, Common Wheat, and Maize in Italy. Agronomy, 2019, 9, 665.	3.0	6
53	The Role of Vineyards in the Carbon Balance Throughout Italy. Environmental Science and Engineering, 2015, , 159-171.	0.2	5
54	The Role of Managed Forest Ecosystems: A Modeling Based Approach. Environmental Science and Engineering, 2015, , 71-85.	0.2	5

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55	Environmental filtering drives community specific leaf area in Spanish forests and predicts relevant changes under future climatic conditions. Forest Ecology and Management, 2017, 405, 1-8.	3.2	4
56	A height-wood-seed axis which is preserved across climatic regions explains tree dominance in European forest communities. Plant Ecology, 2019, 220, 467-480.	1.6	4
57	Towards a Planning Decision Support System for Low-Carbon Urban Development. Lecture Notes in Computer Science, 2011, , 423-438.	1.3	3
58	Adaptation to Climate Change Across Local Policies: An Investigation in Six Italian Cities. Sustainability, 2022, 14, 8318.	3.2	3
59	Weather Station Siting. Tasks for Vegetation Science, 2003, , 345-361.	0.6	2
60	Weather Station Siting: Effects on Phenological Models. , 2013, , 367-382.		2
61	Phenology and Evapotranspiration. , 2013, , 521-538.		2
62	Performances of climatic indicators from seasonal forecasts for ecosystem management: The case of Central Europe and the Mediterranean. Agricultural and Forest Meteorology, 2022, 319, 108921.	4.8	2
63	Urban CO2 Planning: A Decision Support System. Lecture Notes in Geoinformation and Cartography, 2013, , 209-224.	1.0	0
64	Trying to Link Vegetation Units with Biomass Data: The Case Study of Italian Shrublands. Environmental Science and Engineering, 2015, , 195-211.	0.2	0