

Maria C Caldeira

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

5,958
citations

147801

31
h-index

98798

67
g-index

85
all docs

85
docs citations

85
times ranked

7724
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Diversity and Productivity Experiments in European Grasslands. <i>Science</i> , 1999, 286, 1123-1127.	12.6	1,757
2	ECOSYSTEM EFFECTS OF BIODIVERSITY MANIPULATIONS IN EUROPEAN GRASSLANDS. <i>Ecological Monographs</i> , 2005, 75, 37-63.	5.4	439
3	General stabilizing effects of plant diversity on grassland productivity through population asynchrony andoveryielding. <i>Ecology</i> , 2010, 91, 2213-2220.	3.2	410
4	Local adaptation enhances performance of common plant species. <i>Ecology Letters</i> , 2001, 4, 536-544.	6.4	401
5	Mediterranean cork oak savannas require human use to sustain biodiversity and ecosystem services. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 278-286.	4.0	370
6	The role of legumes as a component of biodiversity in a cross-European study of grassland biomass nitrogen. <i>Oikos</i> , 2002, 98, 205-218.	2.7	321
7	Functional coordination between leaf gas exchange and vulnerability to xylem cavitation in temperate forest trees. <i>Plant, Cell and Environment</i> , 2006, 29, 571-583.	5.7	184
8	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 50-56.	7.8	172
9	Mechanisms of positive biodiversity-production relationships: insights provided by delta13C analysis in experimental Mediterranean grassland plots. <i>Ecology Letters</i> , 2001, 4, 439-443.	6.4	112
10	Species richness, temporal variability and resistance of biomass production in a Mediterranean grassland. <i>Oikos</i> , 2005, 110, 115-123.	2.7	111
11	Biodiversity and ecosystem functioning: reconciling the results of experimental and observational studies. <i>Functional Ecology</i> , 2007, 21, 998-1002.	3.6	100
12	Leaf nutrients, not specific leaf area, are consistent indicators of elevated nutrient inputs. <i>Nature Ecology and Evolution</i> , 2019, 3, 400-406.	7.8	97
13	Synergy of extreme drought and shrub invasion reduce ecosystem functioning and resilience in water-limited climates. <i>Scientific Reports</i> , 2015, 5, 15110.	3.3	87
14	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
15	Direct and indirect effects of tree canopy facilitation in the recruitment of Mediterranean oaks. <i>Journal of Applied Ecology</i> , 2014, 51, 349-358.	4.0	74
16	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , 2013, 19, 3677-3687.	9.5	70
17	The Functioning of European Grassland Ecosystems: Potential Benefits of Biodiversity to Agriculture. <i>Outlook on Agriculture</i> , 2001, 30, 179-185.	3.4	63
18	Osmolality and Non-Structural Carbohydrate Composition in the Secondary Phloem of Trees across a Latitudinal Gradient in Europe. <i>Frontiers in Plant Science</i> , 2016, 7, 726.	3.6	60

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19	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	12.8	57
20	Establishing grazing and grazing-excluded patches increases plant and invertebrate diversity in a Mediterranean oak woodland. <i>Forest Ecology and Management</i> , 2011, 261, 2133-2139.	3.2	55
21	Bromodeoxyuridine Induces Senescence in Neural Stem and Progenitor Cells. <i>Stem Cells</i> , 2008, 26, 3218-3227.	3.2	46
22	A pool-weighted perspective on the two-water-worlds hypothesis. <i>New Phytologist</i> , 2019, 222, 1271-1283.	7.3	46
23	Positive effect of drought on longicorn borer larval survival and growth on eucalyptus trunks. <i>Annals of Forest Science</i> , 2002, 59, 99-106.	2.0	41
24	Terpenoid Emissions of Two Mediterranean Woody Species in Response to Drought Stress. <i>Frontiers in Plant Science</i> , 2018, 9, 1071.	3.6	40
25	Negative effects of nitrogen override positive effects of phosphorus on grassland legumes worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	40
26	Fertilized graminoids intensify negative drought effects on grassland productivity. <i>Global Change Biology</i> , 2021, 27, 2441-2457.	9.5	39
27	Bromodeoxyuridine Inhibits Cancer Cell Proliferation In Vitro and In Vivo. <i>Neoplasia</i> , 2008, 10, 804-IN13.	5.3	36
28	Drought-induced embolism in current-year shoots of two Mediterranean evergreen oaks. <i>Forest Ecology and Management</i> , 2012, 285, 1-10.	3.2	35
29	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	12.8	35
30	Transpiration in <i>Quercus suber</i> trees under shallow water table conditions: the role of soil and groundwater. <i>Hydrological Processes</i> , 2014, 28, 6067-6079.	2.6	34
31	Climate modifies response of non-native and native species richness to nutrient enrichment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150273.	4.0	34
32	Soil water availability strongly modulates soil CO ₂ efflux in different Mediterranean ecosystems: Model calibration using the Bayesian approach. <i>Agriculture, Ecosystems and Environment</i> , 2012, 161, 88-100.	5.3	30
33	Volatile diterpene emission by two Mediterranean Cistaceae shrubs. <i>Scientific Reports</i> , 2018, 8, 6855.	3.3	29
34	Extended autumn drought, but not nitrogen deposition, affects the diversity and productivity of a Mediterranean grassland. <i>Environmental and Experimental Botany</i> , 2017, 138, 99-108.	4.2	27
35	Microbial processing of plant remains is limited by multiple nutrients in global grasslands. <i>Global Change Biology</i> , 2020, 26, 4572-4582.	9.5	27
36	Quantifying in situ phenotypic variability in the hydraulic properties of four tree species across their distribution range in Europe. <i>PLoS ONE</i> , 2018, 13, e0196075.	2.5	25

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37	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	9.5	25
38	Nutrient enrichment increases invertebrate herbivory and pathogen damage in grasslands. <i>Journal of Ecology</i> , 2022, 110, 327-339.	4.0	25
39	Conservation zones promote oak regeneration and shrub diversity in certified Mediterranean oak woodlands. <i>Biological Conservation</i> , 2016, 195, 226-234.	4.1	22
40	On estimating the gross primary productivity of Mediterranean grasslands under different fertilization regimes using vegetation indices and hyperspectral reflectance. <i>Biogeosciences</i> , 2018, 15, 5455-5471.	3.3	22
41	Nutrient Addition and Drought Interact to Change the Structure and Decrease the Functional Diversity of a Mediterranean Grassland. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	2.2	20
42	Tree differences in primary and secondary growth drive convergent scaling in leaf area to sapwood area across Europe. <i>New Phytologist</i> , 2018, 218, 1383-1392.	7.3	18
43	Nutrients and herbivores impact grassland stability across spatial scales through different pathways. <i>Global Change Biology</i> , 2022, 28, 2678-2688.	9.5	18
44	Too Many Is Too Bad: Long-Term Net Negative Effects of High Density Ungulate Populations on a Dominant Mediterranean Shrub. <i>PLoS ONE</i> , 2016, 11, e0158139.	2.5	17
45	Unravelling associations between tree-seedling performance, herbivory, competition, and facilitation in high nature value farmlands. <i>Journal of Environmental Management</i> , 2019, 232, 1066-1074.	7.8	17
46	Carbon and Water Fluxes in Mediterranean-Type Ecosystems – Constraints and Adaptations. <i>Progress in Botany Fortschritte Der Botanik</i> , 2004, , 467-498.	0.3	17
47	Nutrient identity modifies the destabilising effects of eutrophication in grasslands. <i>Ecology Letters</i> , 2022, 25, 754-765.	6.4	17
48	Nonlinear plant-plant interactions modulate impact of extreme drought and recovery on a Mediterranean ecosystem. <i>New Phytologist</i> , 2021, 231, 1784-1797.	7.3	14
49	The timing of drought coupled with pathogens may boost tree mortality. <i>Tree Physiology</i> , 2019, 39, 1-5.	3.1	13
50	Species loss due to nutrient addition increases with spatial scale in global grasslands. <i>Ecology Letters</i> , 2021, 24, 2100-2112.	6.4	13
51	Drought reduces tree growing season length but increases nitrogen resorption efficiency in a Mediterranean ecosystem. <i>Biogeosciences</i> , 2019, 16, 1265-1279.	3.3	12
52	Dominant native and non-native graminoids differ in key leaf traits irrespective of nutrient availability. <i>Global Ecology and Biogeography</i> , 2020, 29, 1126-1138.	5.8	11
53	Shrub understorey clearing and drought affects water status and growth of juvenile <i>Quercus suber</i> trees. <i>Forest Ecology and Management</i> , 2022, 503, 119760.	3.2	11
54	Nitrogen but not phosphorus addition affects symbiotic N ₂ fixation by legumes in natural and semi-natural grasslands located on four continents. <i>Plant and Soil</i> , 2022, 478, 689-707.	3.7	11

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55	Ungulates mediate trade-offs between carbon storage and wildfire hazard in Mediterranean oak woodlands. <i>Journal of Applied Ecology</i> , 2019, 56, 699-710.	4.0	10
56	A prolonged dry season and nitrogen deposition interactively affect CO2 fluxes in an annual Mediterranean grassland. <i>Science of the Total Environment</i> , 2019, 654, 978-986.	8.0	9
57	Stable isotopes as ecological tracers: an efficient method for assessing the contribution of multiple sources to mixtures. <i>Biogeosciences</i> , 2008, 5, 1351-1359.	3.3	7
58	Natural Carbon Isotope Composition Distinguishes Compound Groups of Biogenic Volatile Organic Compounds (BVOC) in Two Mediterranean Woody Species. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	2.3	7
59	GENERAL STABILIZING EFFECTS OF PLANT DIVERSITY ON GRASSLAND PRODUCTIVITY AT MULTIPLE SITES THROUGH POPULATION ASYNCHRONY AND OVERYIELDING. <i>Ecology</i> , 0, , 100413130749096.	3.2	6
60	Conservation zones increase habitat heterogeneity of certified Mediterranean oak woodlands. <i>Forest Ecology and Management</i> , 2022, 504, 119811.	3.2	6
61	Combined effects of deer, mice and insect seed predation on the reproductive success of a Mediterranean shrub. <i>Basic and Applied Ecology</i> , 2017, 21, 45-54.	2.7	5
62	Soil ¹³ C emissions of a Mediterranean woodland are sensitive to shrub invasion. <i>Plant Biology</i> , 2022, 24, 967-978.	3.8	5
63	Plant invasion modifies isohydricity in Mediterranean tree species. <i>Functional Ecology</i> , 2022, 36, 2384-2398.	3.6	5
64	Shifted phenology in the pine processionary moth affects the outcome of tree-insect interaction. <i>Bulletin of Entomological Research</i> , 2020, 110, 68-76.	1.0	3
65	Determination of zero-flow for the thermal dissipation method of sap flow measurements in Mediterranean climates. <i>Acta Horticulturae</i> , 2020, , 29-36.	0.2	2
66	The effect of drought and subsequent precipitation pulse on productivity, species composition, and carbon fluxes of the herbaceous understorey in a cork oak woodland. <i>Nature Precedings</i> , 2009, , .	0.1	1
67	Coexistence of grazed and grazing excluded patches increases plant and invertebrate diversity in a Mediterranean oak woodland. <i>Nature Precedings</i> , 2010, , .	0.1	0
68	Soil Microbial Biomass And Activity In A Cork Oak Savanna. <i>Nature Precedings</i> , 2010, , .	0.1	0