

Charlotte Grossiord

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,415
citations

26
h-index

49
g-index

59
ext. papers

3,600
ext. citations

7.3
avg, IF

5.4
L-index

#	Paper	IF	Citations
52	Severe declines in hydraulic capacity and associated carbon starvation drive mortality in seawater exposed Sitka-spruce (<i>Picea sitchensis</i>) trees. <i>Environmental Research Communications</i> , 2022 , 4, 035005	3.1	0
51	Hotter droughts alter resource allocation to chemical defenses in piñon pine. <i>Oecologia</i> , 2021 , 197, 921-938	3.8	0
50	Plant wax and carbon isotope response to heat and drought in the conifer <i>Juniperus monosperma</i> . <i>Organic Geochemistry</i> , 2021 , 153, 104197	3.1	3
49	Disentangling the Effects of Vapor Pressure Deficit and Soil Water Availability on Canopy Conductance in a Seasonal Tropical Forest During the 2015 El Niño Drought. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035004	4.4	3
48	Hydraulic architecture explains species moisture dependency but not mortality rates across a tropical rainfall gradient. <i>Biotropica</i> , 2021 , 53, 1213-1225	2.3	1
47	Tree growth in Switzerland is increasingly constrained by rising evaporative demand. <i>Journal of Ecology</i> , 2021 , 109, 2981-2990	6	3
46	Mortality predispositions of conifers across western USA. <i>New Phytologist</i> , 2021 , 229, 831-844	9.8	6
45	Both diversity and functional composition affect productivity and water use efficiency in experimental temperate grasslands. <i>Journal of Ecology</i> , 2021 , 109, 3877	6	0
44	Foliar respiration is related to photosynthetic, growth and carbohydrate response to experimental drought and elevated temperature. <i>Plant, Cell and Environment</i> , 2021 , 44, 3623-3635	8.4	1
43	Stability of tropical forest tree carbon-water relations in a rainfall exclusion treatment through shifts in effective water uptake depth. <i>Global Change Biology</i> , 2021 , 27, 6454-6466	11.4	2
42	Pervasive shifts in forest dynamics in a changing world. <i>Science</i> , 2020 , 368,	33.3	227
41	Controls of the hydraulic safety-efficiency trade-off. <i>Tree Physiology</i> , 2020 , 40, 573-576	4.2	3
40	Tree growth, transpiration, and water-use efficiency between shoreline and upland red maple (<i>Acer rubrum</i>) trees in a coastal forest. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108163	5.8	1
39	Plant responses to rising vapor pressure deficit. <i>New Phytologist</i> , 2020 , 226, 1550-1566	9.8	249
38	Plant and root-zone water isotopes are difficult to measure, explain, and predict: Some practical recommendations for determining plant water sources. <i>Methods in Ecology and Evolution</i> , 2020 , 11, 1352-1367	7.7	18
37	Having the right neighbors: how tree species diversity modulates drought impacts on forests. <i>New Phytologist</i> , 2020 , 228, 42-49	9.8	68
36	The response of stomatal conductance to seasonal drought in tropical forests. <i>Global Change Biology</i> , 2020 , 26, 823-839	11.4	26

35	Conifers depend on established roots during drought: results from a coupled model of carbon allocation and hydraulics. <i>New Phytologist</i> , 2020 , 225, 679-692	9.8	32
34	Precipitation mediates sap flux sensitivity to evaporative demand in the neotropics. <i>Oecologia</i> , 2019 , 191, 519-530	2.9	8
33	Lack of acclimation of leaf area:sapwood area ratios in piñon pine and juniper in response to precipitation reduction and warming. <i>Tree Physiology</i> , 2019 , 39, 135-142	4.2	8
32	Coordinating supply and demand: plant carbon allocation strategy ensuring survival in the long run. <i>New Phytologist</i> , 2019 , 222, 5-7	9.8	7
31	Mechanisms of a coniferous woodland persistence under drought and heat. <i>Environmental Research Letters</i> , 2019 , 14, 045014	6.2	42
30	Earlier plant growth helps compensate for reduced carbon fixation after 13 years of warming. <i>Functional Ecology</i> , 2019 , 33, 2071-2080	5.6	7
29	Prolonged warming and drought modify belowground interactions for water among coexisting plants. <i>Tree Physiology</i> , 2019 , 39, 55-63	4.2	13
28	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019 , 56, 733-744	5.8	35
27	Homeostatic maintenance of nonstructural carbohydrates during the 2015-2016 El Niño drought across a tropical forest precipitation gradient. <i>Plant, Cell and Environment</i> , 2019 , 42, 1705-1714	8.4	16
26	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018 , 219, 851-869	9.8	209
25	Manipulative experiments demonstrate how long-term soil moisture changes alter controls of plant water use. <i>Environmental and Experimental Botany</i> , 2018 , 152, 19-27	5.9	30
24	Extreme droughts affecting Mediterranean tree species' growth and water-use efficiency: the importance of timing. <i>Tree Physiology</i> , 2018 , 38, 1127-1137	4.2	39
23	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018 , 21, 31-42	10	47
22	Reductions in tree performance during hotter droughts are mitigated by shifts in nitrogen cycling. <i>Plant, Cell and Environment</i> , 2018 , 41, 2627-2637	8.4	8
21	Tree diversity affects chlorophyll a fluorescence and other leaf traits of tree species in a boreal forest. <i>Tree Physiology</i> , 2017 , 37, 199-208	4.2	15
20	Tree water dynamics in a drying and warming world. <i>Plant, Cell and Environment</i> , 2017 , 40, 1861-1873	8.4	48
19	Detecting the fingerprint of drought across European forests: do carbon isotope ratios and stem growth rates tell similar stories?. <i>Forest Ecosystems</i> , 2017 , 4,	3.8	14
18	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017 , 20, 1414-1426	10	149

17	Warming combined with more extreme precipitation regimes modifies the water sources used by trees. <i>New Phytologist</i> , 2017 , 213, 584-596	9.8	97
16	Precipitation, not air temperature, drives functional responses of trees in semi-arid ecosystems. <i>Journal of Ecology</i> , 2017 , 105, 163-175	6	64
15	Drought responses by individual tree species are not often correlated with tree species diversity in European forests. <i>Journal of Applied Ecology</i> , 2016 , 53, 1725-1734	5.8	58
14	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3557-62	11.5	134
13	Physiological significance of forest tree defoliation: Results from a survey in a mixed forest in Tuscany (central Italy). <i>Forest Ecology and Management</i> , 2016 , 361, 170-178	3.9	26
12	Jack-of-all-trades effects drive biodiversity-ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016 , 7, 11109	17.4	120
11	Influence of species interactions on transpiration of Mediterranean tree species during a summer drought. <i>European Journal of Forest Research</i> , 2015 , 134, 365-376	2.7	17
10	Tree diversity does not always improve resistance of forest ecosystems to drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14812-5	11.5	185
9	Interspecific competition influences the response of oak transpiration to increasing drought stress in a mixed Mediterranean forest. <i>Forest Ecology and Management</i> , 2014 , 318, 54-61	3.9	44
8	Impact of interspecific interactions on the soil water uptake depth in a young temperate mixed species plantation. <i>Journal of Hydrology</i> , 2014 , 519, 3511-3519	6	44
7	Does Drought Influence the Relationship Between Biodiversity and Ecosystem Functioning in Boreal Forests?. <i>Ecosystems</i> , 2014 , 17, 394-404	3.9	69
6	The influence of tree species mixture on ecosystem-level carbon accumulation and water use in a mixed boreal plantation. <i>Forest Ecology and Management</i> , 2013 , 298, 82-92	3.9	34
5	Application of Loreau & Hector's (2001) partitioning method to complex functional traits. <i>Methods in Ecology and Evolution</i> , 2013 , 4, n/a-n/a	7.7	3
4	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013 , 15, 281-291	3	143
3	Transpiration alters the contribution of autotrophic and heterotrophic components of soil CO ₂ efflux. <i>New Phytologist</i> , 2012 , 194, 647-653	9.8	28
2	Photosynthetic acclimation and sensitivity to short- and long-term environmental changes		1
1	Mechanisms of woody-plant mortality under rising drought, CO ₂ and vapour pressure deficit. <i>Nature Reviews Earth & Environment</i> ,	30.2	7