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Plant functional traits and climate influence drought intensification and land-atmosphere feedbacks

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#	Paper	IF	Citations
58	Plant Hydraulic Stress Explained Tree Mortality and Tree Size Explained Beetle Attack in a Mixed Conifer Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 3555-3568	3.7	6
57	Soil Water Availability Drives Changes in Community Traits Along a Hydrothermal Gradient in Loess Plateau Grasslands. <i>Rangeland Ecology and Management</i> , <b>2020</b> , 73, 276-284	2.2	0
56	Stomatal optimization based on xylem hydraulics (SOX) improves land surface model simulation of vegetation responses to climate. <i>New Phytologist</i> , <b>2020</b> , 226, 1622-1637	9.8	48
55	River basin salinization as a form of aridity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 17635-17642	11.5	16
54	Linking observation, modelling and satellite-based estimation of global land evapotranspiration. <i>Big Earth Data</i> , <b>2020</b> , 4, 94-127	4.1	6
53	Climate-Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. <i>Global Biogeochemical Cycles</i> , <b>2020</b> , 34, e2020GB006613	5.9	7
52	The Role of Vegetation on the Dynamics of Water and Fire in the Cerrado Ecosystems: Implications for Management and Conservation. <i>Plants</i> , <b>2020</b> , 9,	4.5	9
51	Non-analog increases to air, surface, and belowground temperature extreme events due to climate change. <i>Climatic Change</i> , <b>2020</b> , 163, 2233-2256	4.5	5
50	Hillslope Hydrology Influences the Spatial and Temporal Patterns of Remotely Sensed Ecosystem Productivity. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR027630	5.4	6
49	An isotopic approach to partition evapotranspiration in a mixed deciduous forest. <i>Ecohydrology</i> , <b>2020</b> , 13, e2229	2.5	1
48	Review: The influence of global change on Europe's water cycle and groundwater recharge. <i>Hydrogeology Journal</i> , <b>2020</b> , 28, 1939-1959	3.1	15
47	Importance and strength of environmental controllers of soil organic carbon changes with scale. <i>Geoderma</i> , <b>2020</b> , 375, 114472	6.7	24
46	Trait velocities reveal that mortality has driven widespread coordinated shifts in forest hydraulic trait composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8532-8538	11.5	22
45	Robust ecological drought projections for drylands in the 21st century. <i>Global Change Biology</i> , <b>2020</b> , 26, 3906-3919	11.4	45
44	Soil moisture seasonality alters vegetation response to drought in the Mongolian Plateau. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 014050	6.2	3
43	Soil moisture-atmosphere feedback dominates land carbon uptake variability. <i>Nature</i> , <b>2021</b> , 592, 65-69	50.4	61
42	The complex multi-sectoral impacts of drought: Evidence from a mountainous basin in the Central Spanish Pyrenees. <i>Science of the Total Environment</i> , <b>2021</b> , 769, 144702	10.2	3

41	Global ecosystem-scale plant hydraulic traits retrieved using model-data fusion. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 2399-2417	5.5	4
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39	Storage of carbon reserves in spruce trees is prioritized over growth in the face of carbon limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
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36	Divergent forest sensitivity to repeated extreme droughts. <i>Nature Climate Change</i> , <b>2020</b> , 10, 1091-1095	21.4	50
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- 4 Integrating temperature gradient-based 3T and resistance-based models for simulating evapotranspiration and its components. **2023**, 620, 129459
- 3 Plant functional traits predict heterogeneous distributional shifts in response to climate change.
- 2 Quantifying the effects of nonlinear trends of meteorological factors on drought dynamics.
- 1 A joint framework for studying compound ecoclimatic events.