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Leveraging plant hydraulics to yield predictive and dynamic plant leaf allocation in vegetation models with climate change

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Global Change Biology, 2019, 25, 4008-4021.

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31	The impact of rising CO and acclimation on the response of US forests to global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25734-25744	11.5	48
30	Marching in step: The importance of matching model complexity to data availability in terrestrial biosphere models. <i>Global Change Biology</i> , 2020 , 26, 3190-3192	11.4	4
29	A theoretical and empirical assessment of stomatal optimization modeling. <i>New Phytologist</i> , 2020 , 227, 311-325	9.8	31
28	Towards better representations of carbon allocation in vegetation: a conceptual framework and mathematical tool. <i>Theoretical Ecology</i> , 2020 , 13, 317-332	1.6	4
27	Aridity drives coordinated trait shifts but not decreased trait variance across the geographic range of eight Australian trees. <i>New Phytologist</i> , 2021 , 229, 1375-1387	9.8	9
26	Does economic optimisation explain LAI and leaf trait distributions across an Amazon soil moisture gradient?. <i>Global Change Biology</i> , 2021 , 27, 587-605	11.4	2
25	Visualization and ecohydrologic models: Opening the box. <i>Hydrological Processes</i> , 2021 , 35,	3.3	3
24	Understanding and predicting forest mortality in the western United States using long-term forest inventory data and modeled hydraulic damage. <i>New Phytologist</i> , 2021 , 230, 1896-1910	9.8	15
23	Forests of the future: Climate change impacts and implications for carbon storage in the Pacific Northwest, USA. <i>Forest Ecology and Management</i> , 2021 , 482, 118886	3.9	14
22	Coupled whole-tree optimality and xylem hydraulics explain dynamic biomass partitioning. <i>New Phytologist</i> , 2021 , 230, 2226-2245	9.8	4
21	Representation of Plant Hydraulics in the Noah-MP Land Surface Model: Model Development and Multiscale Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002214	7.1	11
20	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
19	Eco-evolutionary optimality as a means to improve vegetation and land-surface models. <i>New Phytologist</i> , 2021 , 231, 2125-2141	9.8	10
18	Coordination of plant hydraulic and photosynthetic traits: confronting optimality theory with field measurements. <i>New Phytologist</i> , 2021 , 232, 1286-1296	9.8	3
17	Whole-plant Hydraulics, Water Saving, and Drought Tolerance: A Triptych for Crop Resilience in a Drier World. 661-698		1
16	Turgor-driven tree growth: scaling-up sink limitations from the cell to the forest. <i>Tree Physiology</i> , 2021 ,	4.2	1
15	Aridity drives coordinated trait shifts but not decreased trait variance across the geographic range of eight Australian trees.		

14	Tradeoffs and Synergies in Tropical Forest Root Traits and Dynamics for Nutrient and Water Acquisition: Field and Modeling Advances. <i>Frontiers in Forests and Global Change</i> , 2021 , 4,	3.7	1
13	Forest system hydraulic conductance: partitioning tree and soil components. <i>New Phytologist</i> , 2021 ,	9.8	1
12	Modelling the artificial forest (&i>Robinia pseudoacacia&/i>(L.) root-soil water interactions in the Loess Plateau, China. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 17-34	5.5	0
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10	Forest disturbances and climate constrain carbon allocation dynamics in trees.. <i>Global Change Biology</i> , 2022 ,	11.4	0
9	Predicting mangrove forest dynamics across a soil salinity gradient using an individual-based vegetation model linked with plant hydraulics. <i>Biogeosciences</i> , 2022 , 19, 1813-1832	4.6	2
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