

# Anna T Trugman

## 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.

40  
papers

1,630  
citations

20  
h-index

40  
g-index

51  
ext. papers

2,604  
ext. citations

10.9  
avg, IF

5.17  
L-index

#	Paper	IF	Citations
40	Megafires in a Warming World: What Wildfire Risk Factors Led to California's Largest Recorded Wildfire. <i>Fire</i> , <b>2022</b> , 5, 16	2.4	2
39	Simulating Potential Impacts of Fuel Treatments on Fire Behavior and Evacuation Time of the 2018 Camp Fire in Northern California. <i>Fire</i> , <b>2022</b> , 5, 37	2.4	1
38	The changing carbon balance of tundra ecosystems: results from a vertically-resolved peatland biosphere model. <i>Environmental Research Letters</i> , <b>2022</b> , 17, 014019	6.2	1
37	Integrating plant physiology and community ecology across scales through trait-based models to predict drought mortality. <i>New Phytologist</i> , <b>2021</b> ,	9.8	3
36	Systematic over-crediting in California's forest carbon offsets program. <i>Global Change Biology</i> , <b>2021</b> ,	11.4	3
35	Optimization theory explains nighttime stomatal responses. <i>New Phytologist</i> , <b>2021</b> , 230, 1550-1561	9.8	5
34	Coupled whole-tree optimality and xylem hydraulics explain dynamic biomass partitioning. <i>New Phytologist</i> , <b>2021</b> , 230, 2226-2245	9.8	4
33	Why is Tree Drought Mortality so Hard to Predict?. <i>Trends in Ecology and Evolution</i> , <b>2021</b> , 36, 520-532	10.9	30
32	Turgor-limited predictions of tree growth, height, and metabolic scaling over tree lifespans. <i>Tree Physiology</i> , <b>2021</b> ,	4.2	1
31	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO. <i>New Phytologist</i> , <b>2021</b> , 229, 2413-2445	9.8	94
30	Understanding and predicting forest mortality in the western United States using long-term forest inventory data and modeled hydraulic damage. <i>New Phytologist</i> , <b>2021</b> , 230, 1896-1910	9.8	15
29	Trait-Based Modeling of Terrestrial Ecosystems: Advances and Challenges Under Global Change. <i>Current Climate Change Reports</i> , <b>2021</b> , 7, 1-13	9	6
28	Testing the effects of species interactions and water limitation on tree seedling biomass allocation and physiology. <i>Tree Physiology</i> , <b>2021</b> , 41, 1323-1335	4.2	1
27	Detecting forest response to droughts with global observations of vegetation water content. <i>Global Change Biology</i> , <b>2021</b> , 27, 6005-6024	11.4	9
26	Competition and Drought Alter Optimal Stomatal Strategy in Tree Seedlings. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 478	6.2	7
25	Climate-driven risks to the climate mitigation potential of forests. <i>Science</i> , <b>2020</b> , 368,	33.3	131
24	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

23	A theoretical and empirical assessment of stomatal optimization modeling. <i>New Phytologist</i> , <b>2020</b> , 227, 311-325	9.8	31
22	Divergent forest sensitivity to repeated extreme droughts. <i>Nature Climate Change</i> , <b>2020</b> , 10, 1091-1095	21.4	50
21	Forecasting semi-arid biome shifts in the Anthropocene. <i>New Phytologist</i> , <b>2020</b> , 226, 351-361	9.8	2
20	Linking tree physiological constraints with predictions of carbon and water fluxes at an old-growth coniferous forest. <i>Ecosphere</i> , <b>2019</b> , 10, e02692	3.1	4
19	Plant functional traits and climate influence drought intensification and land-atmosphere feedbacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 14071-14076	11.5	34
18	Climate and plant trait strategies determine tree carbon allocation to leaves and mediate future forest productivity. <i>Global Change Biology</i> , <b>2019</b> , 25, 3395-3405	11.4	27
17	Widespread drought-induced tree mortality at dry range edges indicates that climate stress exceeds species' compensating mechanisms. <i>Global Change Biology</i> , <b>2019</b> , 25, 3793-3802	11.4	78
16	The stomatal response to rising CO <sub>2</sub> concentration and drought is predicted by a hydraulic trait-based optimization model. <i>Tree Physiology</i> , <b>2019</b> , 39, 1416-1427	4.2	18
15	Leveraging plant hydraulics to yield predictive and dynamic plant leaf allocation in vegetation models with climate change. <i>Global Change Biology</i> , <b>2019</b> , 25, 4008-4021	11.4	20
14	Pervasive decreases in living vegetation carbon turnover time across forest climate zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24662-24667	11.5	31
13	The impact of rising CO <sub>2</sub> 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> , <b>2019</b> , 116, 25734-25744	11.5	48
12	Tree cover shows strong sensitivity to precipitation variability across the global tropics. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 450-460	6.1	21
11	Differential declines in Alaskan boreal forest vitality related to climate and competition. <i>Global Change Biology</i> , <b>2018</b> , 24, 1097-1107	11.4	28
10	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , <b>2018</b> , 24, 35-54	11.4	309
9	Soil Moisture Stress as a Major Driver of Carbon Cycle Uncertainty. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 6495-6503	4.9	73
8	Tree carbon allocation explains forest drought-kill and recovery patterns. <i>Ecology Letters</i> , <b>2018</b> , 21, 1552-1560	11.7	117
7	Hydraulic diversity of forests regulates ecosystem resilience during drought. <i>Nature</i> , <b>2018</b> , 561, 538-541	50.4	186
6	Sensitivity of woody carbon stocks to bark investment strategy in Neotropical savannas and forests. <i>Biogeosciences</i> , <b>2018</b> , 15, 233-243	4.6	7

5	Allometric equations for integrating remote sensing imagery into forest monitoring programmes. <i>Global Change Biology</i> , <b>2017</b> , 23, 177-190	11.4	160
4	Climate, soil organic layer, and nitrogen jointly drive forest development after fire in the North American boreal zone. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 1180-1209	7.1	27
3	A scalable model for methane consumption in arctic mineral soils. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5143-5150	4.9	14
2	Systematic over-crediting in California's forest carbon offsets program		2
1	Mechanisms of woody-plant mortality under rising drought, CO <sub>2</sub> and vapour pressure deficit. <i>Nature Reviews Earth &amp; Environment</i> ,	30.2	7