Sebastian Leuzinger

List of Publications by Year
in descending order

50 papers	5,426 citations	159585 30 h-index	182427 51 g-index
52 all docs	52 docs citations	52 times ranked	8502 citing authors

#	Article	IF	Citations
1	Moving beyond photosynthesis: from carbon source to sinkâ€driven vegetation modeling. New Phytologist, 2014, 201, 1086-1095.	7.3	421
2	Precipitation manipulation experiments â€“ challenges and recommendations for the future. Ecology Letters, 2012, 15, 899-911.	6.4	411
3	A plant's perspective of extremes: terrestrial plant responses to changing climatic variability. Global Change Biology, 2013, 19, 75-89.	9.5	393
4	Simple additive effects are rare: a quantitative review of plant biomass and soil process responses to combined manipulations of <scp><scp>CO₂</scp></scp> and temperature. Global Change Biology, 2012, 18, 2681-2693.	9.5	365
5	Drought survival of tropical tree seedlings enhanced by non-structural carbohydrate levels. Nature Climate Change, 2014, 4, 710-714.	18.8	360
6	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. Nature Ecology and Evolution, 2019, 3, 1309-1320.	7.8	304
7	Do global change experiments overestimate impacts on terrestrial ecosystems?. Trends in Ecology and Evolution, 2011, 26, 236-241.	8.7	300
8	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO₂. New Phytologist, 2021, 229, 2413-2445.	7.3	286
9	Tree surface temperature in an urban environment. Agricultural and Forest Meteorology, 2010, 150, 56-62.	4.8	240
10	Forest resilience and tipping points at different spatioâ€temporal scales: approaches and challenges. Journal of Ecology, 2015, 103, 5-15.	4.0	224
11	Towards a unified study of multiple stressors: divisions and common goals across research disciplines. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200421.	2.6	191
12	Tree species diversity affects canopy leaf temperatures in a mature temperate forest. Agricultural and Forest Meteorology, 2007, 146, 29-37.	4.8	172
13	Modelling carbon sources and sinks in terrestrial vegetation. New Phytologist, 2019, 221, 652-668.	7.3	163
14	Central <scp>E</scp>uropean hardwood trees in a highâ€<scp>CO</scp>₂ future: synthesis of an 8â€year forest canopy <scp>CO</scp>₂ enrichment project. Journal of Ecology, 2013, 101, 1509-1519.	4.0	141
15	Water savings in mature deciduous forest trees under elevated CO₂. Global Change Biology, 2007, 13, 2498-2508.	9.5	135
16	A 2ÂÂ°C warmer world is not safe for ecosystem services in the <scp>E</scp>uropean <scp>A</scp>lps. Global Change Biology, 2013, 19, 1827-1840.	9.5	132
17	Partitioning direct and indirect effects reveals the response of water-limited ecosystems to elevated CO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12757-12762.	7.1	102
18	Sensitivity analysis of a processâ€based ecosystem model: Pinpointing parameterization and structural issues. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 505-528.	3.0	101

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19	Reproductive energy investment in corals: scaling with module size. Oecologia, 2003, 136, 524-531.	2.0	90
20	Rainfall distribution is the main driver of runoff under future CO₂â€concentration in a temperate deciduous forest. Global Change Biology, 2010, 16, 246-254.	9.5	68
21	Growth and carbon relations of mature Picea abies trees under 5Âyears of freeâ€air CO₂ enrichment. Journal of Ecology, 2016, 104, 1720-1733.	4.0	68
22	Global Diversity of Desert Hypolithic Cyanobacteria. Frontiers in Microbiology, 2017, 8, 867.	3.5	61
23	Stomatal conductance in mature deciduous forest trees exposed to elevated CO2. Trees - Structure and Function, 2007, 21, 151-159.	1.9	60
24	Plant growth: the What, the How, and the Why. New Phytologist, 2021, 232, 25-41.	7.3	58
25	Biogeography of photoautotrophs in the high polar biome. Frontiers in Plant Science, 2015, 6, 692.	3.6	56
26	Beyond global change: lessons from 25Âyears of CO2 research. Oecologia, 2013, 171, 639-651.	2.0	55
27	Globally consistent influences of seasonal precipitation limit grassland biomass response to elevated CO2. Nature Plants, 2019, 5, 167-173.	9.3	51
28	A sinkâ€limited growth model improves biomass estimation along boreal and alpine tree lines. Global Ecology and Biogeography, 2013, 22, 924-932.	5.8	45
29	Long-term 13C labeling provides evidence for temporal and spatial carbon allocation patterns in mature Picea abies. Oecologia, 2014, 175, 747-762.	2.0	35
30	Reconciling observations with modeling: The fate of water and carbon allocation in a mature deciduous forest exposed to elevated CO2. Agricultural and Forest Meteorology, 2013, 174-175, 144-157.	4.8	33
31	Temperature Effects on Biomass and Regeneration of Vegetation in a Geothermal Area. Frontiers in Plant Science, 2017, 8, 249.	3.6	27
32	Carbon and nitrogen stable isotope signals for an entire alpine flora, based on herbarium samples. Alpine Botany, 2016, 126, 153-166.	2.4	25
33	Leaf Stable Isotope and Nutrient Status of Temperate Mangroves As Ecological Indicators to Assess Anthropogenic Activity and Recovery from Eutrophication. Frontiers in Plant Science, 2016, 7, 1922.	3.6	22
34	Daytime stem swelling and seasonal reversal in the peristaltic depletion of stored water along the stem of Avicennia marina (Forssk.) Vierh. Tree Physiology, 2018, 38, 965-978.	3.1	22
35	Untargeted metabolomics in halophytes: The role of different metabolites in New Zealand mangroves under multi-factorial abiotic stress conditions. Environmental and Experimental Botany, 2020, 173, 103993.	4.2	20
36	Experimental vs. modeled water use in mature Norway spruce (Picea abies) exposed to elevated CO2. Frontiers in Plant Science, 2012, 3, 229.	3.6	19

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37	The â€˜island effectâ€™ in terrestrial global change experiments: a problem with no solution?. AoB PLANTS, 2015, 7, plv092.	2.3	17
38	Invasive rodents have multiple indirect effects on seabird island invertebrate food web structure. Ecological Applications, 2017, 27, 1190-1198.	3.8	17
39	Hydraulic Coupling of a Leafless Kauri Tree Remnant to Conspecific Hosts. IScience, 2019, 19, 1238-1247.	4.1	17
40	Ten new insights in climate science 2020 â€“ a horizon scan. Global Sustainability, 2021, 4, .	3.3	17
41	Biomass and nutrient composition of temperate mangroves (Avicennia marina var. australasica) in New Zealand. New Zealand Journal of Marine and Freshwater Research, 2017, 51, 427-442.	2.0	13
42	Photosynthetic enhancement and diurnal stem and soil carbon fluxes in a mature Norway spruce stand under elevated CO2. Environmental and Experimental Botany, 2016, 124, 110-119.	4.2	10
43	Disentangling the net: concomitant xylem and over-bark size measurements reveal the phloem-generated turgor signal behind daytime stem swelling in the mangrove Avicennia marina. Functional Plant Biology, 2019, 46, 393.	2.1	9
44	Towards a better understanding of carbon flux. Journal of Biological Education, 2010, 44, 175-179.	1.5	7
45	Water relations determine short time leaf growth patterns in the mangrove <scp>Avicennia marina</scp> (<scp>Forssk</scp>.) <scp>Vierh</scp>.. Plant, Cell and Environment, 2019, 42, 527-535.	5.7	7
46	Phytophthora pluvialis Studies on Douglas-fir Require Swiss Needle Cast Suppression. Plant Disease, 2017, 101, 1259-1262.	1.4	6
47	Environmental drivers of stem radius change and heterogeneity of stem radial water storage in the mangrove Avicennia marina (Forssk.) Vierh.. Agricultural and Forest Meteorology, 2020, 280, 107764.	4.8	6
48	No carbon limitation after lower crown loss in Pinus radiata. Annals of Botany, 2020, 125, 955-967.	2.9	6
49	Are the well-fed less thirsty? Effects of drought and salinity on New Zealand mangroves. Journal of Plant Ecology, 2022, 15, 85-99.	2.3	2
50	Die Auswirkungen des globalen Wandels auf Schweizer WÃlder aus Ã¶kophysiologischer Sicht | Effects of global change on Swiss forests from an ecophysiological point of view. Schweizerische Zeitschrift Fur Forstwesen, 2010, 161, 2-11.	0.1	0