

Sebastian Leuzinger

List of Publications by Year in descending order

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Version: 2024-02-01

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	Are the well-fed less thirsty? Effects of drought and salinity on New Zealand mangroves. <i>Journal of Plant Ecology</i> , 2022, 15, 85-99.	2.3	2
2	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021, 229, 2413-2445.	7.3	286
3	Ten new insights in climate science 2020 – a horizon scan. <i>Global Sustainability</i> , 2021, 4, .	3.3	17
4	Plant growth: the What, the How, and the Why. <i>New Phytologist</i> , 2021, 232, 25-41.	7.3	58
5	Environmental drivers of stem radius change and heterogeneity of stem radial water storage in the mangrove <i>Avicennia marina</i> (Forssk.) Vierh.. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107764.	4.8	6
6	Towards a unified study of multiple stressors: divisions and common goals across research disciplines. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200421.	2.6	191
7	No carbon limitation after lower crown loss in <i>Pinus radiata</i> . <i>Annals of Botany</i> , 2020, 125, 955-967.	2.9	6
8	Untargeted metabolomics in halophytes: The role of different metabolites in New Zealand mangroves under multi-factorial abiotic stress conditions. <i>Environmental and Experimental Botany</i> , 2020, 173, 103993.	4.2	20
9	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. <i>Nature Ecology and Evolution</i> , 2019, 3, 1309-1320.	7.8	304
10	Hydraulic Coupling of a Leafless Kauri Tree Remnant to Conspecific Hosts. <i>IScience</i> , 2019, 19, 1238-1247.	4.1	17
11	Disentangling the net: concomitant xylem and over-bark size measurements reveal the phloem-generated turgor signal behind daytime stem swelling in the mangrove <i>Avicennia marina</i> . <i>Functional Plant Biology</i> , 2019, 46, 393.	2.1	9
12	Globally consistent influences of seasonal precipitation limit grassland biomass response to elevated CO ₂ . <i>Nature Plants</i> , 2019, 5, 167-173.	9.3	51
13	Water relations determine short time leaf growth patterns in the mangrove <i>Avicennia marina</i> (Forssk.) Vierh.. <i>Plant, Cell and Environment</i> , 2019, 42, 527-535.	5.7	7
14	Modelling carbon sources and sinks in terrestrial vegetation. <i>New Phytologist</i> , 2019, 221, 652-668.	7.3	163
15	Daytime stem swelling and seasonal reversal in the peristaltic depletion of stored water along the stem of <i>Avicennia marina</i> (Forssk.) Vierh. <i>Tree Physiology</i> , 2018, 38, 965-978.	3.1	22
16	Biomass and nutrient composition of temperate mangroves (<i>Avicennia marina</i> var. <i>australasica</i>) in New Zealand. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2017, 51, 427-442.	2.0	13
17	Invasive rodents have multiple indirect effects on seabird island invertebrate food web structure. <i>Ecological Applications</i> , 2017, 27, 1190-1198.	3.8	17
18	<i>Phytophthora pluvialis</i> Studies on Douglas-fir Require Swiss Needle Cast Suppression. <i>Plant Disease</i> , 2017, 101, 1259-1262.	1.4	6

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19	Temperature Effects on Biomass and Regeneration of Vegetation in a Geothermal Area. <i>Frontiers in Plant Science</i> , 2017, 8, 249.	3.6	27
20	Global Diversity of Desert Hypolithic Cyanobacteria. <i>Frontiers in Microbiology</i> , 2017, 8, 867.	3.5	61
21	Leaf Stable Isotope and Nutrient Status of Temperate Mangroves As Ecological Indicators to Assess Anthropogenic Activity and Recovery from Eutrophication. <i>Frontiers in Plant Science</i> , 2016, 7, 1922.	3.6	22
22	Growth and carbon relations of mature <i>Picea abies</i> trees under 5 years of free air CO ₂ enrichment. <i>Journal of Ecology</i> , 2016, 104, 1720-1733.	4.0	68
23	Carbon and nitrogen stable isotope signals for an entire alpine flora, based on herbarium samples. <i>Alpine Botany</i> , 2016, 126, 153-166.	2.4	25
24	Partitioning direct and indirect effects reveals the response of water-limited ecosystems to elevated CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12757-12762.	7.1	102
25	Photosynthetic enhancement and diurnal stem and soil carbon fluxes in a mature Norway spruce stand under elevated CO ₂ . <i>Environmental and Experimental Botany</i> , 2016, 124, 110-119.	4.2	10
26	The "island effect"™ in terrestrial global change experiments: a problem with no solution?. <i>AoB PLANTS</i> , 2015, 7, plv092.	2.3	17
27	Forest resilience and tipping points at different spatio-temporal scales: approaches and challenges. <i>Journal of Ecology</i> , 2015, 103, 5-15.	4.0	224
28	Biogeography of photoautotrophs in the high polar biome. <i>Frontiers in Plant Science</i> , 2015, 6, 692.	3.6	56
29	Moving beyond photosynthesis: from carbon source to sink-driven vegetation modeling. <i>New Phytologist</i> , 2014, 201, 1086-1095.	7.3	421
30	Long-term ¹³ C labeling provides evidence for temporal and spatial carbon allocation patterns in mature <i>Picea abies</i> . <i>Oecologia</i> , 2014, 175, 747-762.	2.0	35
31	Drought survival of tropical tree seedlings enhanced by non-structural carbohydrate levels. <i>Nature Climate Change</i> , 2014, 4, 710-714.	18.8	360
32	Central European hardwood trees in a high CO ₂ future: synthesis of an 8-year forest canopy CO ₂ enrichment project. <i>Journal of Ecology</i> , 2013, 101, 1509-1519.	4.0	141
33	A sink-limited growth model improves biomass estimation along boreal and alpine tree lines. <i>Global Ecology and Biogeography</i> , 2013, 22, 924-932.	5.8	45
34	Reconciling observations with modeling: The fate of water and carbon allocation in a mature deciduous forest exposed to elevated CO ₂ . <i>Agricultural and Forest Meteorology</i> , 2013, 174-175, 144-157.	4.8	33
35	Beyond global change: lessons from 25 years of CO ₂ research. <i>Oecologia</i> , 2013, 171, 639-651.	2.0	55
36	A plant's perspective of extremes: terrestrial plant responses to changing climatic variability. <i>Global Change Biology</i> , 2013, 19, 75-89.	9.5	393

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37	Sensitivity analysis of a process-based ecosystem model: Pinpointing parameterization and structural issues. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 505-528.	3.0	101
38	A 2°C warmer world is not safe for ecosystem services in the European Alps. <i>Global Change Biology</i> , 2013, 19, 1827-1840.	9.5	132
39	Experimental vs. modeled water use in mature Norway spruce (<i>Picea abies</i>) exposed to elevated CO ₂ . <i>Frontiers in Plant Science</i> , 2012, 3, 229.	3.6	19
40	Simple additive effects are rare: a quantitative review of plant biomass and soil process responses to combined manipulations of CO ₂ and temperature. <i>Global Change Biology</i> , 2012, 18, 2681-2693.	9.5	365
41	Precipitation manipulation experiments – challenges and recommendations for the future. <i>Ecology Letters</i> , 2012, 15, 899-911.	6.4	411
42	Do global change experiments overestimate impacts on terrestrial ecosystems?. <i>Trends in Ecology and Evolution</i> , 2011, 26, 236-241.	8.7	300
43	Rainfall distribution is the main driver of runoff under future CO ₂ concentration in a temperate deciduous forest. <i>Global Change Biology</i> , 2010, 16, 246-254.	9.5	68
44	Towards a better understanding of carbon flux. <i>Journal of Biological Education</i> , 2010, 44, 175-179.	1.5	7
45	Tree surface temperature in an urban environment. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 56-62.	4.8	240
46	Die Auswirkungen des globalen Wandels auf Schweizer Wälder aus Ökophysiologischer Sicht Effects of global change on Swiss forests from an ecophysiological point of view. <i>Schweizerische Zeitschrift Für Forstwesen</i> , 2010, 161, 2-11.	0.1	0
47	Tree species diversity affects canopy leaf temperatures in a mature temperate forest. <i>Agricultural and Forest Meteorology</i> , 2007, 146, 29-37.	4.8	172
48	Water savings in mature deciduous forest trees under elevated CO ₂ . <i>Global Change Biology</i> , 2007, 13, 2498-2508.	9.5	135
49	Stomatal conductance in mature deciduous forest trees exposed to elevated CO ₂ . <i>Trees - Structure and Function</i> , 2007, 21, 151-159.	1.9	60
50	Reproductive energy investment in corals: scaling with module size. <i>Oecologia</i> , 2003, 136, 524-531.	2.0	90