Christian Krner

List of Publications by Citations

263 papers	24,696 citations	82 h-index	153 g-index
404 ext. papers	28,383 ext. citations	6.2 avg, IF	7.93 L-index

#	Paper	IF	Citations
263	The use of 'altitude' in ecological research. *Trends in Ecology and Evolution*, **2007**, 22, 569-74	10.9	1611
262	Alpine Plant Life **2003**,		1454
261	A re-assessment of high elevation treeline positions and their explanation. *Oecologia*, **1998**, 115, 445-459	2.9	926
260	A world-wide study of high altitude treeline temperatures. *Journal of Biogeography*, **2004**, 31, 713-732	4.1	865
259	Carbon limitation in trees. *Journal of Ecology*, **2003**, 91, 4-17	6	747
258	Plant science. Phenology under global warming. *Science*, **2010**, 327, 1461-2	33.3	673
257	Alpine Plant Life **1999**,		583
256	Plant CO2 responses: an issue of definition, time and resource supply. *New Phytologist*, **2006**, 172, 393-411	9.8	490
255	Topographically controlled thermal-habitat differentiation buffers alpine plant diversity against climate warming. *Journal of Biogeography*, **2011**, 38, 406-416	4.1	459
254	Carbon flux and growth in mature deciduous forest trees exposed to elevated CO2. *Science*, **2005**, 309, 1360-2	33.3	433
253	Alpine Treelines **2012**,		381
252	Paradigm shift in plant growth control. *Current Opinion in Plant Biology*, **2015**, 25, 107-14	9.9	361
251	Moving beyond photosynthesis: from carbon source to sink-driven vegetation modeling. *New Phytologist*, **2014**, 201, 1086-1095	9.8	330
250	Precipitation manipulation experiments--challenges and recommendations for the future. *Ecology Letters*, **2012**, 15, 899-911	10	318
249	The underestimated importance of belowground carbon input for forest soil animal food webs. *Ecology Letters*, **2007**, 10, 729-36	10	265
248	Non-structural carbohydrate pools in a tropical forest. *Oecologia*, **2005**, 143, 11-24	2.9	260
247	Altitudinal increase of mobile carbon pools in Pinus cembra suggests sink limitation of growth at the Swiss treeline. *Oikos*, **2002**, 98, 361-374	4	258

246	Do global change experiments overestimate impacts on terrestrial ecosystems?. *Trends in Ecology and Evolution*, **2011**, 26, 236-41	10.9	255
245	The carbon charging of pines at the climatic treeline: a global comparison. *Oecologia*, **2003**, 135, 10-21	2.9	244
244	Why are there global gradients in species richness? mountains might hold the answer. *Trends in Ecology and Evolution*, **2000**, 15, 513-514	10.9	243
243	Atmospheric science. Slow in, rapid out--carbon flux studies and Kyoto targets. *Science*, **2003**, 300, 1242-3	33.3	235
242	Responses of deciduous forest trees to severe drought in Central Europe. *Tree Physiology*, **2005**, 25, 641-50	4.0	232
241	Long term effects of naturally elevated CO on mediterranean grassland and forest trees. *Oecologia* , **1994**, 99, 343-351	2.9	230
240	Recent decline in precipitation and tree growth in the eastern Mediterranean. *Global Change Biology*, **2007**, 13, 1187-1200	11.4	219
239	Large-scale bioenergy from additional harvest of forest biomass is neither sustainable nor greenhouse gas neutral. *GCB Bioenergy*, **2012**, 4, 611-616	5.6	218
238	Photoperiod sensitivity of bud burst in 14 temperate forest tree species. *Agricultural and Forest Meteorology*, **2012**, 165, 73-81	5.8	218
237	Thirty years of in situ tree growth under elevated CO2: a model for future forest responses?. *Global Change Biology*, **1997**, 3, 463-471	11.4	195
236	A first assessment of the impact of the extreme 2018 summer drought on Central European forests. *Basic and Applied Ecology*, **2020**, 45, 86-103	3.2	191
235	Functional Morphology of Mountain Plants1)1Dedicated to Prof. H. Meusel, on the occasion of his 80th birthday.. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **1989**, 182, 353-383	1.9	187
234	Tree surface temperature in an urban environment. *Agricultural and Forest Meteorology*, **2010**, 150, 56-62	5.8	184
233	A definition of mountains and their bioclimatic belts for global comparisons of biodiversity data. *Alpine Botany*, **2011**, 121, 73	2.5	178
232	Long-term persistence in a changing climate: DNA analysis suggests very old ages of clones of alpine Carex curvula. *Oecologia*, **1996**, 105, 94-99	2.9	176
231	Does carbon storage limit tree growth?. *New Phytologist*, **2014**, 201, 1096-1100	9.8	171
230	Plant growth modelling and applications: the increasing importance of plant architecture in growth models. *Annals of Botany*, **2008**, 101, 1053-63	4.1	165
229	The interaction between freezing tolerance and phenology in temperate deciduous trees. *Frontiers in Plant Science*, **2014**, 5, 541	6.2	159

228	Mountain Biodiversity, Its Causes and Function. *Ambio*, **2004**, 33, 11	6.5	152
227	Higher plant diversity enhances soil stability in disturbed alpine ecosystems. *Plant and Soil*, **2009**, 324, 91-102	4.2	151
226	Construction costs, chemical composition and payback time of high- and low-irradiance leaves. *Journal of Experimental Botany*, **2006**, 57, 355-71	7	148
225	A climate-based model to predict potential treeline position around the globe. *Alpine Botany*, **2014**, 124, 1-12	2.5	144
224	Emerging opportunities and challenges in phenology: a review. *Ecosphere*, **2016**, 7, e01436	3.1	144
223	Source/sink removal affects mobile carbohydrates in Pinus cembra at the Swiss treeline. *Trees - Structure and Function*, **2002**, 16, 331-337	2.6	138
222	Global patterns of mobile carbon stores in trees at the high-elevation tree line. *Global Ecology and Biogeography*, **2012**, 21, 861-871	6.1	137
221	Tree species diversity affects canopy leaf temperatures in a mature temperate forest. *Agricultural and Forest Meteorology*, **2007**, 146, 29-37	5.8	134
220	A field study of the effects of elevated CO(2) on plant biomass and community structure in a calcareous grassland. *Oecologia*, **1999**, 118, 39-49	2.9	133
219	In deep shade, elevated CO2 increases the vigor of tropical climbing plants. *Global Change Biology*, **2002**, 8, 1109-1117	11.4	128
218	A global inventory of mountains for bio-geographical applications. *Alpine Botany*, **2017**, 127, 1-15	2.5	127
217	Photoperiod and temperature responses of bud swelling and bud burst in four temperate forest tree species. *Tree Physiology*, **2014**, 34, 377-88	4.2	125
216	The Role of Photoperiodism in Alpine Plant Development. *Arctic, Antarctic, and Alpine Research*, **2003**, 35, 361-368	1.8	124
215	Small differences in arrival time influence composition and productivity of plant communities. *New Phytologist*, **2008**, 177, 698-705	9.8	123
214	Through enhanced tree dynamics carbon dioxide enrichment may cause tropical forests to lose carbon. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2004**, 359, 493-8	5.8	121
213	Where, why and how? Explaining the low-temperature range limits of temperate tree species. *Journal of Ecology*, **2016**, 104, 1076-1088	6	120
212	Altitudinal differences in flower traits and reproductive allocation. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **2004**, 199, 70-81	1.9	119
211	Web-FACE: a new canopy free-air CO2 enrichment system for tall trees in mature forests. *Oecologia* , **2002**, 133, 1-9	2.9	118

210	Water savings in mature deciduous forest trees under elevated CO2. *Global Change Biology*, **2007**, 13, 2498-2508	11.4	117
209	Belowground carbon trade among tall trees in a temperate forest. *Science*, **2016**, 352, 342-4	33.3	117
208	Tree rings and volcanic cooling. *Nature Geoscience*, **2012**, 5, 836-837	18.3	116
207	Canopy CO2 enrichment permits tracing the fate of recently assimilated carbon in a mature deciduous forest. *New Phytologist*, **2006**, 172, 319-29	9.8	114
206	Climatic treelines: conventions, global patterns, causes. *Erdkunde*, **2007**, 61, 316-324	1.1	114
205	A matter of tree longevity. *Science*, **2017**, 355, 130-131	33.3	113
204	Central European hardwood trees in a high-CO2 future: synthesis of an 8-year forest canopy CO2 enrichment project. *Journal of Ecology*, **2013**, 101, 1509-1519	6	113
203	Soil moisture effects determine CO responses of grassland species. *Oecologia*, **2000**, 125, 380-388	2.9	112
202	Growth responses of an alpine grassland to elevated CO. *Oecologia*, **1996**, 105, 43-52	2.9	110
201	Inter- and intra-annual stable carbon and oxygen isotope signals in response to drought in Mediterranean pines. *Agricultural and Forest Meteorology*, **2013**, 168, 59-68	5.8	107
200	Ecological and Land Use Studies Along Elevational Gradients. *Mountain Research and Development*, **2007**, 27, 58-65	1.4	107
199	European deciduous trees exhibit similar safety margins against damage by spring freeze events along elevational gradients. *New Phytologist*, **2013**, 200, 1166-75	9.8	105
198	A TEST OF THE TREELINE CARBON LIMITATION HYPOTHESIS BY IN SITU CO2 ENRICHMENT AND DEFOLIATION. *Ecology*, **2005**, 86, 1288-1300	4.6	105
197	Drought stress, growth and nonstructural carbohydrate dynamics of pine trees in a semi-arid forest. *Tree Physiology*, **2014**, 34, 981-92	4.2	104
196	Elevational adaptation and plasticity in seedling phenology of temperate deciduous tree species. *Oecologia*, **2013**, 171, 663-78	2.9	100
195	Responses of Humid Tropical Trees to Rising CO2. *Annual Review of Ecology, Evolution, and Systematics*, **2009**, 40, 61-79	13.5	100
194	Growth and phenology of mature temperate forest trees in elevated CO2. *Global Change Biology*, **2006**, 12, 848-861	11.4	100
193	Atmospheric CO enrichment of alpine treeline conifers. *New Phytologist*, **2002**, 156, 363-375	9.8	100

192	Carbon fluxes to the soil in a mature temperate forest assessed by 13C isotope tracing. *Oecologia*, **2004**, 141, 489-501	2.9	98
191	Tropical forest responses to increasing atmospheric CO: current knowledge and opportunities for future research. *Functional Plant Biology*, **2013**, 40, 531-551	2.7	97
190	Infra-red thermometry of alpine landscapes challenges climatic warming projections. *Global Change Biology*, **2009**, 16, no-no	11.4	94
189	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO. *New Phytologist*, **2021**, 229, 2413-2445	9.8	94
188	The grand challenges in functional plant ecology. *Frontiers in Plant Science*, **2011**, 2, 1	6.2	93
187	Impact of recent climatic change on growth of low elevation eastern Mediterranean forest trees. *Climatic Change*, **2011**, 106, 203-223	4.5	92
186	Drought-sensitivity ranking of deciduous tree species based on thermal imaging of forest canopies. *Agricultural and Forest Meteorology*, **2011**, 151, 1632-1640	5.8	90
185	The responses of alpine grassland to four seasons of CO2 enrichment: a synthesis. *Acta Oecologica*, **1997**, 18, 165-175	1.7	89
184	Spring frost and growing season length co-control the cold range limits of broad-leaved trees. *Journal of Biogeography*, **2014**, 41, 773-783	4.1	85
183	Plant adaptation to cold climates. *F1000Research*, **2016**, 5,	3.6	84
182	A dynamic leaf gas-exchange strategy is conserved in woody plants under changing ambient CO2 : evidence from carbon isotope discrimination in paleo and CO2 enrichment studies. *Global Change Biology*, **2016**, 22, 889-902	11.4	83
181	Nutrient relations in calcareous grassland under elevated CO. *Oecologia*, **1998**, 116, 67-75	2.9	82
180	Growth and carbon relations of tree line forming conifers at constant vs. variable low temperatures. *Journal of Ecology*, **2009**, 97, 57-66	6	80
179	The 90 ways to describe plant temperature. *Perspectives in Plant Ecology, Evolution and Systematics*, **2018**, 30, 16-21	3	79
178	Fruit production in three masting tree species does not rely on stored carbon reserves. *Oecologia*, **2013**, 171, 653-62	2.9	79
177	Coldest places on earth with angiosperm plant life. *Alpine Botany*, **2011**, 121, 11-22	2.5	79
176	Biomass turnover time in terrestrial ecosystems halved by land use. *Nature Geoscience*, **2016**, 9, 674-678	18.3	78
175	Advances in Monitoring and Modelling Climate at Ecologically Relevant Scales. *Advances in Ecological Research*, **2018**, 101-161	4.6	78

174	Altitudinal Variation of Leaf Diffusive Conductance and Leaf Anatomy in Heliophytes of Montane New Guinea and their Interrelation with Microclimate. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **1983**, 174, 91-135	1.9	78
173	Treelines will be understood once the functional difference between a tree and a shrub is. *Ambio*, **2012**, 41 Suppl 3, 197-206	6.5	77
172	Sustained enhancement of photosynthesis in mature deciduous forest trees after 8 years of free air CO(2) enrichment. *Planta*, **2010**, 232, 1115-25	4.7	74
171	Effects of elevated CO and phosphorus addition on productivity and community composition of intact monoliths from calcareous grassland. *Oecologia*, **1998**, 116, 50-56	2.9	73
170	Significance of Temperature in Plant Life48-69		73
169	Phylogenetically balanced evidence for structural and carbon isotope responses in plants along elevational gradients. *Oecologia*, **2010**, 162, 853-63	2.9	72
168	End of season carbon supply status of woody species near the treeline in western China. *Basic and Applied Ecology*, **2006**, 7, 370-377	3.2	72
167	A Test of Treeline Theory on a Montane Permafrost Island. *Arctic, Antarctic, and Alpine Research*, **2006**, 38, 113-119	1.8	71
166	Rapid mixing between old and new C pools in the canopy of mature forest trees. *Plant, Cell and Environment*, **2007**, 30, 963-72	8.4	70
165	On the use of elevation, altitude, and height in the ecological and climatological literature. *Oecologia*, **2013**, 171, 335-7	2.9	69
164	Ecological impacts of atmospheric CO2 enrichment on terrestrial ecosystems. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2003**, 361, 2023-41; discussion 2041	3	69
163	Long-term increase in climatic dryness in the East-Mediterranean as evidenced for the island of Samos. *Regional Environmental Change*, **2005**, 5, 27-36	4.3	69
162	System-level adjustments to elevated CO2 in model spruce ecosystems. *Global Change Biology*, **1996**, 2, 377-387	11.4	68
161	Earlier leaf-out rather than difference in freezing resistance puts juvenile trees at greater risk of damage than adult trees. *Journal of Ecology*, **2014**, 102, 981-988	6	67
160	Elevational species shifts in a warmer climate are overestimated when based on weather station data. *International Journal of Biometeorology*, **2011**, 55, 645-54	3.7	67
159	Winter crop growth at low temperature may hold the answer for alpine treeline formation. *Plant Ecology and Diversity*, **2008**, 1, 3-11	2.2	66
158	Tree seedling responses to in situ CO2-enrichment differ among species and depend on understorey light availability. *Global Change Biology*, **2000**, 6, 213-226	11.4	66
157	Does Global Increase of CO 2 Alter Stomatal Density?. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **1988**, 181, 253-257	1.9	66

156	Rainfall distribution is the main driver of runoff under future CO2-concentration in a temperate deciduous forest. *Global Change Biology*, **2010**, 16, 246-254	11.4	65
155	Reduced early growing season freezing resistance in alpine treeline plants under elevated atmospheric CO2. *Global Change Biology*, **2010**, 16, 1057-1070	11.4	64
154	Increase in tree-ring width in subalpine Pinus cembra from the central Alps that may be CO2-related. *Trees - Structure and Function*, **1995**, 9, 181	2.6	62
153	Water availability predicts forest canopy height at the global scale. *Ecology Letters*, **2015**, 18, 1311-20	10	61
152	Responses of soil microbiota of a late successional alpine grassland to long term CO2 enrichment. *Plant and Soil*, **1996**, 184, 219-229	4.2	61
151	No growth stimulation by CO2 enrichment in alpine glacier forefield plants. *Global Change Biology*, **2012**, 18, 985-999	11.4	59
150	Limited capacity of tree growth to mitigate the global greenhouse effect under predicted warming. *Nature Communications*, **2019**, 10, 2171	17.4	58
149	An alpine treeline in a carbon dioxide-rich world: synthesis of a nine-year free-air carbon dioxide enrichment study. *Oecologia*, **2013**, 171, 623-37	2.9	57
148	Stomatal conductance in mature deciduous forest trees exposed to elevated CO2. *Trees - Structure and Function*, **2007**, 21, 151-159	2.6	57
147	Growth, water and nitrogen relations in grassland model ecosystems of the semi-arid Negev of Israel exposed to elevated CO. *Oecologia*, **2001**, 128, 251-262	2.9	57
146	Tree recruitment of European tree species at their current upper elevational limits in the Swiss Alps. *Journal of Biogeography*, **2012**, 39, 1439-1449	4.1	56
145	Inorganic nitrogen storage in alpine snow pack in the Central Alps (Switzerland). *Atmospheric Environment*, **2005**, 39, 2249-2259	5.3	56
144	Conifer stem growth at the altitudinal treeline in response to four years of CO2 enrichment. *Global Change Biology*, **2006**, 12, 2417-2430	11.4	54
143	GIS-analysis of tree-line elevation in the Swiss Alps suggests no exposure effect. *Journal of Vegetation Science*, **2001**, 12, 817-824	3.1	54
142	Biomass allocation and canopy development in spruce model ecosystems under elevated CO and increased N deposition. *Oecologia*, **1997**, 113, 104-114	2.9	53
141	Surplus Carbon Drives Allocation and Plant-Soil Interactions. *Trends in Ecology and Evolution*, **2020**, 35, 1110-1118	10.9	52
140	Growth and carbon relations of mature Picea abies trees under 5 years of free-air CO2 enrichment. *Journal of Ecology*, **2016**, 104, 1720-1733	6	52
139	Effects of elevated CO and soil quality on leaf gas exchange and above-ground growth in beech-spruce model ecosystems. *New Phytologist*, **1998**, 140, 185-196	9.8	51

138	BIOSPHERE RESPONSES TO CO2 ENRICHMENT **2000**, 10, 1590-1619		51
137	Variation of mobile carbon reserves in trees at the alpine treeline ecotone is under environmental control. *New Phytologist*, **2012**, 195, 794-802	9.8	49
136	A greener Greenland? Climatic potential and long-term constraints on future expansions of trees and shrubs. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20120479	5.8	47
135	Fine root responses of mature deciduous forest trees to free air carbon dioxide enrichment (FACE). *Functional Ecology*, **2009**, 23, 913-921	5.6	47
134	CO2 Fertilization: When, Where, How Much? **2007**, 9-21		47
133	Do the elevational limits of deciduous tree species match their thermal latitudinal limits?. *Global Ecology and Biogeography*, **2013**, 22, 913-923	6.1	46
132	Early season temperature controls cambial activity and total tree ring width at the alpine treeline. *Plant Ecology and Diversity*, **2013**, 6, 365-375	2.2	46
131	Physiological minimum temperatures for root growth in seven common European broad-leaved tree species. *Tree Physiology*, **2014**, 34, 302-13	4.2	45
130	Ecological consequences of the expansion of N-fixing plants in cold biomes. *Oecologia*, **2014**, 176, 11-24	2.9	45
129	Biogeography of photoautotrophs in the high polar biome. *Frontiers in Plant Science*, **2015**, 6, 692	6.2	45
128	Biomass allocation in herbaceous plants under grazing impact in the high semi-arid Andes. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **2010**, 205, 695-703	1.9	45
127	Climate and soils together regulate photosynthetic carbon isotope discrimination within C3 plants worldwide. *Global Ecology and Biogeography*, **2018**, 27, 1056-1067	6.1	45
126	Effects of elevated CO and increased nitrogen deposition on photosynthesis and growth of understory plants in spruce model ecosystems. *Oecologia*, **1996**, 106, 172-180	2.9	44
125	Convergence of leaf-out towards minimum risk of freezing damage in temperate trees. *Functional Ecology*, **2016**, 30, 1480-1490	5.6	44
124	Seed production and seed quality in a calcareous grassland in elevated CO2. *Global Change Biology*, **2003**, 9, 873-884	11.4	42
123	Increased nitrate availability in the soil of a mixed mature temperate forest subjected to elevated CO2 concentration (canopy FACE). *Global Change Biology*, **2012**, 18, 757-768	11.4	41
122	Defoliation reduces growth but not carbon reserves in Mediterranean Pinus pinaster trees. *Trees - Structure and Function*, **2015**, 29, 1187-1196	2.6	39
121	Challenges in elevated CO2 experiments on forests. *Trends in Plant Science*, **2010**, 15, 5-10	13.1	39

120	No need for pipes when the well is dry-a comment on hydraulic failure in trees. *Tree Physiology*, **2019**, 39, 695-700	4.2	38
119	No overall stimulation of soil respiration under mature deciduous forest trees after 7 years of CO2 enrichment. *Global Change Biology*, **2010**, 16, 2830-2843	11.4	38
118	Tropical Forests in a Co2-Rich World. *Climatic Change*, **1998**, 39, 297-315	4.5	38
117	Nutrients and sink activity drive plant CO responses - caution with literature-based analysis. *New Phytologist*, **2003**, 159, 537-538	9.8	38
116	A subset of HLA-DP molecules serve as ligands for the natural cytotoxicity receptor NKp44. *Nature Immunology*, **2019**, 20, 1129-1137	19.1	37
115	Differential phosphorus and nitrogen effects drive species and community responses to elevated CO2 in semi-arid grassland. *Functional Ecology*, **2003**, 17, 766-777	5.6	37
114	How accurately can minimum temperatures at the cold limits of tree species be extrapolated from weather station data?. *Agricultural and Forest Meteorology*, **2014**, 184, 257-266	5.8	36
113	Thermal imaging reveals massive heat accumulation in flowers across a broad spectrum of alpine taxa. *Alpine Botany*, **2014**, 124, 27-35	2.5	34
112	Genetic vs. non-genetic responses of leaf morphology and growth to elevation in temperate tree species. *Functional Ecology*, **2014**, 28, 243-252	5.6	34
111	A simple method for testing leaf responses of tall tropical forest trees to elevated CO. *Oecologia*, **1996**, 107, 421-425	2.9	34
110	Nitrogen status of conifer needles at the alpine treeline. *Plant Ecology and Diversity*, **2009**, 2, 233-241	2.2	33
109	Poor methodology for predicting large-scale tree die-off. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, E106; author reply E107	11.5	31
108	Morphological adjustments of mature Quercus ilex trees to elevated CO2. *Acta Oecologica*, **1997**, 18, 361-365	1.7	31
107	Biodiversity and CO2: Global Change is Under Way. *Gaia*, **1995**, 4, 234-243	1.4	30
106	Alpine Plant Life **2021**,		30
105	In situ stomatal responses to long-term CO2 enrichment in calcareous grassland plants. *Acta Oecologica*, **1997**, 18, 221-229	1.7	29
104	The Ecological Significance of Pubescence in Saussurea Medusa, a High-Elevation Himalayan Woolly Plant *Arctic, Antarctic, and Alpine Research*, **2008**, 40, 250-255	1.8	28
103	Concepts in empirical plant ecology. *Plant Ecology and Diversity*, **2018**, 11, 405-428	2.2	27

102	A bioclimatic characterization of high elevation habitats in the Alborz mountains of Iran. *Alpine Botany*, **2018**, 128, 1-11	2.5	26
101	Provenance effects and allometry in beech and spruce under elevated CO2 and nitrogen on two different forest soils. *Basic and Applied Ecology*, **2003**, 4, 467-478	3.2	26
100	Leaf carbohydrate responses to CO. *Oecologia*, **1998**, 116, 18	2.9	26
99	Multiple mycorrhization at the coldest place known for Angiosperm plant life. *Alpine Botany*, **2014**, 124, 193-198	2.5	25
98	Leaf carbohydrate responses to CO enrichment at the top of a tropical forest. *Oecologia*, **1998**, 116, 18-25	2.9	25
97	Biosphere Responses to CO 2 Enrichment **2000**, 10, 1590		25
96	Life at 0 °C: the biology of the alpine snowbed plant Soldanella pusilla. *Alpine Botany*, **2019**, 129, 63-80	2.5	24
95	Species specific and environment induced variation of δ(13)C and δ(15)N in alpine plants. *Frontiers in Plant Science*, **2015**, 6, 423	6.2	24
94	Mountain biodiversity, its causes and function. *Ambio*, **2004**, Spec No 13, 11-7	6.5	23
93	Long-term 13C labeling provides evidence for temporal and spatial carbon allocation patterns in mature Picea abies. *Oecologia*, **2014**, 175, 747-62	2.9	22
92	Alnus viridis expansion contributes to excess reactive nitrogen release, reduces biodiversity and constrains forest succession in the Alps. *Alpine Botany*, **2014**, 124, 187-191	2.5	22
91	Tissue-specific variation of δ13C in mature canopy trees in a temperate forest in central Europe. *Basic and Applied Ecology*, **2005**, 6, 519-534	3.2	22
90	Losing half the conductive area hardly impacts the water status of mature trees. *Scientific Reports*, **2018**, 8, 15006	4.9	22
89	Growth and carbon relations of temperate deciduous tree species at their upper elevation range limit. *Journal of Ecology*, **2014**, 102, 1537-1548	6	21
88	Forest soil respiration reflects plant productivity across a temperature gradient in the Alps. *Oecologia*, **2012**, 170, 1143-54	2.9	21
87	Response--Warming, Photoperiods, and Tree Phenology. *Science*, **2010**, 329, 278-278	33.3	21
86	Shrub Expansion of Alnus viridis Drives Former Montane Grassland into Nitrogen Saturation. *Ecosystems*, **2016**, 19, 968-985	3.9	21
85	Influence of elevated CO on canopy development and red:far-red ratios in two-storied stands ofRicinus communis. *Oecologia*, **1993**, 94, 510-515	2.9	20

84	Carbon and nitrogen stable isotope signals for an entire alpine flora, based on herbarium samples. *Alpine Botany*, **2016**, 126, 153-166	2.5	20
83	Hydrological consequences of declining land use and elevated CO2 in alpine grassland. *Journal of Ecology*, **2013**, 101, 86-96	6	19
82	Climate and plant cover co-determine the elevational reduction in evapotranspiration in the Swiss Alps. *Journal of Hydrology*, **2013**, 500, 75-83	6	18
81	Response: complexities of sustainable forest use. *GCB Bioenergy*, **2013**, 5, 1-2	5.6	18
80	Tropical epiphytes in a CO2-rich atmosphere. *Acta Oecologica*, **2009**, 35, 60-68	1.7	18
79	Species-specific tree growth responses to 9 years of CO2 enrichment at the alpine treeline. *Journal of Ecology*, **2010**, 99, no-no	6	17
78	Share the wealth: Trees with greater ectomycorrhizal species overlap share more carbon. *Molecular Ecology*, **2020**, 29, 2321-2333	5.7	16
77	The Green Cover of Mountains in a Changing Environment. *Advances in Global Change Research*, **2005**, 367-375	1.2	16
76	Low temperature limits for root growth in alpine species are set by cell differentiation. *AoB PLANTS* , **2017**, 9, plx054	2.9	15
75	Windthrow damage in Picea abies is associated with physical and chemical stem wood properties. *Trees - Structure and Function*, **2008**, 22, 463-473	2.6	15
74	Mechanical properties of spruce and beech wood grown in elevated CO2. *Trees - Structure and Function*, **2002**, 16, 511-518	2.6	15
73	Downward adjustment of carbon fluxes at the biochemical, leaf, and ecosystem scale in beech-spruce model communities exposed to long-term atmospheric CO2 enrichment. *Oikos*, **2001**, 92, 279-290	4	15
72	When it gets cold, plant size matters a comment on treeline. *Journal of Vegetation Science*, **2016**, 27, 6-7	3.1	15
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