Karl HÃ¼lber

List of Publications by Year
in descending order

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Version: 2024-02-01

71 papers	4,064 citations	136885 32 h-index	123376 61 g-index
71 all docs	71 docs citations	71 times ranked	6752 citing authors

#	Article	IF	Citations
1	Extinction debt of high-mountain plants under twenty-first-century climate change. Nature Climate Change, 2012, 2, 619-622.	8.1	582
2	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	13.7	451
3	Socioeconomic legacy yields an invasion debt. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 203-207.	3.3	442
4	Range dynamics of mountain plants decrease with elevation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1848-1853.	3.3	284
5	Changes in plant species richness over the last century in the eastern Swiss Alps: elevational gradient, bedrock effects and migration rates. Plant Ecology, 2008, 195, 179-196.	0.7	124
6	Distribution and habitat segregation on different spatial scales among diploid, tetraploid and hexaploid cytotypes of Senecio carniolicus (Asteraceae) in the Eastern Alps. Annals of Botany, 2010, 106, 967-977.	1.4	109
7	Effect of Canopy Position on Germination and Seedling Survival of Epiphytic Bromeliads in a Mexican Humid Montane Forest. Annals of Botany, 2005, 95, 1039-1047.	1.4	108
8	The rich sides of mountain summits â€“ a panâ€European view on aspect preferences of alpine plants. Journal of Biogeography, 2016, 43, 2261-2273.	1.4	107
9	Europeâ€™s other debt crisis caused by the long legacy of future extinctions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7342-7347.	3.3	102
10	Intraseasonal climate and habitatâ€specific variability controls the flowering phenology of high alpine plant species. Functional Ecology, 2010, 24, 245-252.	1.7	95
11	Phenological Responses of Snowbed Species to Snow Removal Dates in the Central Alps: Implications for Climate Warming. Arctic, Antarctic, and Alpine Research, 2006, 38, 99-103.	0.4	84
12	Elevational rear edges shifted at least as much as leading edges over the last century. Global Ecology and Biogeography, 2019, 28, 533-543.	2.7	75
13	Sympatric diploid and hexaploid cytotypes of Senecio carniolicus (Asteraceae) in the Eastern Alps are separated along an altitudinal gradient. Journal of Plant Research, 2007, 120, 721-725.	1.2	69
14	Extinction debts and colonization credits of non-forest plants in the European Alps. Nature Communications, 2019, 10, 4293.	5.8	63
15	Tundra Trait Team: A database of plant traits spanning the tundra biome. Global Ecology and Biogeography, 2018, 27, 1402-1411.	2.7	57
16	Reproductive differentiation into sexual and apomictic polyploid cytotypes in Potentilla puberula (Potentilleae, Rosaceae). Annals of Botany, 2013, 112, 1159-1168.	1.4	56
17	Habitat-based conservation strategies cannot compensate for climate-change-induced rangeÂloss. Nature Climate Change, 2017, 7, 823-827.	8.1	55
18	Ecological differentiation, lack of hybrids involving diploids, and asymmetric gene flow between polyploids in narrow contact zones of Senecio carniolicus (syn. Jacobaea carniolica,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	54

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19	Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351.	5.8	52
20	Traditional plant functional groups explain variation in economic but not sizeâ€related traits across the tundra biome. Global Ecology and Biogeography, 2019, 28, 78-95.	2.7	49
21	Population dynamics of epiphytic orchids in a metapopulation context. Annals of Botany, 2009, 104, 995-1004.	1.4	45
22	Extensive range persistence in peripheral and interior refugia characterizes Pleistocene range dynamics in a widespread Alpine plant species (Senecio carniolicus, Asteraceae). Molecular Ecology, 2012, 21, 1255-1270.	2.0	44
23	Assessing airborne pollution effects on bryophytes â€“ lessons learned through long-term integrated monitoring in Austria. Environmental Pollution, 2007, 147, 696-705.	3.7	42
24	Parental Ploidy Strongly Affects Offspring Fitness in Heteroploid Crosses among Three Cytotypes of Autopolyploid Jacobaea carniolica (Asteraceae). PLoS ONE, 2013, 8, e78959.	1.1	42
25	Population dynamics of epiphytic bromeliads: Life strategies and the role of host branches. Basic and Applied Ecology, 2007, 8, 183-196.	1.2	41
26	Uncertainty in predicting range dynamics of endemic alpine plants under climate warming. Global Change Biology, 2016, 22, 2608-2619.	4.2	40
27	Prospects and limits of the flow cytometric seed screen â€“ insights from Potentilla sensu lato (Potentilleae, Rosaceae). New Phytologist, 2013, 198, 605-616.	3.5	39
28	Ecological segregation drives fine-scale cytotype distribution of Senecio carniolicus in the Eastern Alps. Preslia, 2009, 81, 309-319.	1.1	39
29	Effects of snowmelt timing and competition on the performance of alpine snowbed plants. Perspectives in Plant Ecology, Evolution and Systematics, 2011, 13, 15-26.	1.1	38
30	Plant species richness decreased in semi-natural grasslands in the Biosphere Reserve Wienerwald, Austria, over the past two decades, despite agri-environmental measures. Agriculture, Ecosystems and Environment, 2017, 243, 10-18.	2.5	35
31	Herbivory in epiphytic bromeliads, orchids and ferns in a Mexican montane forest. Journal of Tropical Ecology, 2005, 21, 147-154.	0.5	34
32	Experimental Evaluation of Seed Limitation in Alpine Snowbed Plants. PLoS ONE, 2011, 6, e21537.	1.1	33
33	Modelling the effect of habitat fragmentation on climateâ€driven migration of European forest understorey plants. Diversity and Distributions, 2015, 21, 1375-1387.	1.9	32
34	Reconstructing geographical parthenogenesis: effects of niche differentiation and reproductive mode on Holocene range expansion of an alpine plant. Ecology Letters, 2018, 21, 392-401.	3.0	32
35	Space matters when defining effective management for invasive plants. Diversity and Distributions, 2014, 20, 1029-1043.	1.9	30
36	Revisiting tree-migration rates: Abies alba (Mill.), a case study. Vegetation History and Archaeobotany, 2014, 23, 113-122.	1.0	30

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37	Gourmets or gourmands?â€"Diet selection by large ungulates in high-alpine plant communities and possible impacts on plant propagation. Basic and Applied Ecology, 2005, 6, 1-10.	1.2	29
38	Ecological differentiation of diploid and polyploid cytotypes ofSenecio carniolicus sensu lato(Asteraceae) is stronger in areas of sympatry. Annals of Botany, 2015, 117, mcv176.	1.4	26
39	Three years of vegetation development worth 30Âyears of secondary succession in urbanâ€industrial grassland restoration. Applied Vegetation Science, 2019, 22, 138-149.	0.9	26
40	Underestimated diversity in one of the worldâ€™s best studied mountain ranges: The polyploid complex of Senecio carniolicus (Asteraceae) contains four species in the European Alps. Phytotaxa, 2015, 213, 1.	0.1	24
41	Longâ€term impacts of nitrogen and sulphur deposition on forest floor vegetation in the Northern limestone Alps, Austria. Applied Vegetation Science, 2008, 11, 395-404.	0.9	23
42	Asymmetric reproductive interference: The consequences of crossâ€pollination on reproductive success in sexualâ€"apomictic populations of Potentilla puberula (Rosaceae). Ecology and Evolution, 2018, 8, 365-381.	0.8	23
43	Natural selection drives parallel divergence in the mountain plant Heliosperma pusillum s.l. Oikos, 2018, 127, 1355-1367.	1.2	22
44	Seedling establishment of epiphytic orchids in forests and coffee plantations in Central Veracruz, Mexico. Journal of Tropical Ecology, 2010, 26, 93-102.	0.5	21
45	Patch configuration affects alpine plant distribution. Ecography, 2011, 34, 576-587.	2.1	21
46	Germination of Epiphytic Bromeliads in Forests and Coffee Plantations: Microclimate and Substrate Effects. Biotropica, 2012, 44, 197-204.	0.8	19
47	An explicit test of Pleistocene survival in peripheral versus nunatak refugia in two high mountain plant species. Molecular Ecology, 2020, 29, 172-183.	2.0	19
48	Modelling the <scp>H</scp>olocene migrational dynamics of <scp>F</scp>agus sylvaticaâ€…<scp>L.</scp> and <scp>P</scp>icea abies (<scp>L</scp>.) <scp>H</scp>. <scp>K</scp>arst. Global Ecology and Biogeography, 2014, 23, 658-668.	2.7	18
49	A novel method to infer the origin of polyploids from Amplified Fragment Length Polymorphism data reveals that the alpine polyploid complex of Senecio carniolicus (Asteraceae) evolved mainly via autopolyploidy. Molecular Ecology Resources, 2017, 17, 877-892.	2.2	16
50	Habitat availability disproportionally amplifies climate change risks for lowland compared to alpine species. Global Ecology and Conservation, 2020, 23, e01113.	1.0	14
51	Morphology, DNAâ€"molecular variation, karyology, ecogeography, and phytosociology suggest allopatric differentiation and species rank for Potentilla rigoana (Rosaceae). Taxon, 2013, 62, 733-745.	0.4	13
52	No evidence of intrinsic reproductive isolation between two reciprocally non-monophyletic, ecologically differentiated mountain plants at an early stage of speciation. Evolutionary Ecology, 2016, 30, 1031-1042.	0.5	13
53	Difference in reproductive mode rather than ploidy explains niche differentiation in sympatric sexual and apomictic populations of Potentilla puberula. Ecology and Evolution, 2019, 9, 3588-3598.	0.8	13
54	Climate warming may increase the frequency of cold-adapted haplotypes in alpine plants. Nature Climate Change, 2022, 12, 77-82.	8.1	12

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55	Do pentaploid hybrids mediate gene flow between tetraploid Senecio disjunctus and hexaploid S. carniolicus s. str. (S. carniolicus aggregate, Asteraceae)?. Alpine Botany, 2021, 131, 151-160.	1.1	11
56	Mating systems of snowbed plant species of the northeastern Calcareous Alps of Austria. Acta Oecologica, 2007, 31, 203-209.	0.5	10
57	Changes in plant lifeâ€form, pollination syndrome and breeding system at a regional scale promoted by land use intensity. Diversity and Distributions, 2015, 21, 1319-1328.	1.9	10
58	No evidence for a role of competitive capabilities of adults in causing habitat segregation of diploid and hexaploid Senecio carniolicus (Asteracaeae). Alpine Botany, 2011, 121, 123.	1.1	9
59	Evidence for Glacial Refugia of the Forest Understorey Species Helleborus niger (Ranunculaceae) in the Southern as Well as in the Northern Limestone Alps. Frontiers in Plant Science, 2021, 12, 683043.	1.7	9
60	Insect herbivory in alpine grasslands is constrained by community and host traits. Journal of Vegetation Science, 2015, 26, 663-673.	1.1	7
61	A new high-resolution habitat distribution map for Austria, Liechtenstein, southern Germany, South Tyrol and Switzerland. Eco Mont, 2015, 7, 18-29.	0.1	6
62	Parallel local adaptation to an alpine environment in Arabidopsis arenosa. Journal of Ecology, 2022, 110, 2448-2461.	1.9	6
63	Pollen precedence in sexual Potentilla puberula and its role as a protective reproductive barrier against apomictic cytotypes. Taxon, 2018, 67, 1132-1142.	0.4	5
64	Biogeography of amphi-adriatic Gentianella crispata (Gentianaceae): a northern refugium and recent trans-adriatic migration. Plant Biosystems, 2022, 156, 754-768.	0.8	5
65	Reply to Keller and Springborn: No doubt about invasion debt. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E221-E221.	3.3	4
66	Reciprocal transplantations reveal strong niche differentiation among ploidy-differentiated species of the Senecio carniolicus aggregate (Asteraceae) in the easternmost Alps. Alpine Botany, 2018, 128, 107-119.	1.1	4
67	Occurrence of apomictic conspecifics and ecological preferences rather than colonization history govern the geographic distribution of sexual Potentilla puberula. Ecology and Evolution, 2020, 10, 7306-7319.	0.8	4
68	Phytosociological and ecological description of the high alpine vegetation of NW Iran. Phytocoenologia, 2017, 47, 233-259.	1.2	3
69	Effects of climate change and horticultural use on the spread of naturalized alien garden plants in Europe. Ecography, 2019, 42, 1548-1557.	2.1	2
70	Functional traits but not environmental gradients explain seed weight in Mongolian plant species. Plant Biology, 2019, 21, 559-562.	1.8	2
71	Semi-Objective Sampling Strategies as One Basis for a Vegetation Survey. Advances in Global Change Research, 2001, , 219-228.	1.6	1