

Niklaus E Zimmermann

List of Publications by Citations

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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.

219
papers

32,552
citations

76
h-index

179
g-index

236
ext. papers

38,946
ext. citations

6.8
avg, IF

7.28
L-index

#	Paper	IF	Citations
219	Novel methods improve prediction of species distributions from occurrence data. <i>Ecography</i> , 2006 , 29, 129-151	6.5	5184
218	Predictive habitat distribution models in ecology. <i>Ecological Modelling</i> , 2000 , 135, 147-186	3	4758
217	Present and future Köppen-Geiger climate classification maps at 1-km resolution. <i>Scientific Data</i> , 2018 , 5, 180214	8.2	1241
216	Climatologies at high resolution for the earth's land surface areas. <i>Scientific Data</i> , 2017 , 4, 170122	8.2	1080
215	Predicting global change impacts on plant species distributions: Future challenges. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2008 , 9, 137-152	3	785
214	Measuring ecological niche overlap from occurrence and spatial environmental data. <i>Global Ecology and Biogeography</i> , 2012 , 21, 481-497	6.1	752
213	The prehistoric and preindustrial deforestation of Europe. <i>Quaternary Science Reviews</i> , 2009 , 28, 3016-3034	3.4	566
212	Climate change may cause severe loss in the economic value of European forest land. <i>Nature Climate Change</i> , 2013 , 3, 203-207	21.4	565
211	Are niche-based species distribution models transferable in space?. <i>Journal of Biogeography</i> , 2006 , 33, 1689-1703	4.1	527
210	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016 , 529, 204-7	50.4	453
209	Extinction debt of high-mountain plants under twenty-first-century climate change. <i>Nature Climate Change</i> , 2012 , 2, 619-622	21.4	444
208	Tree line shifts in the Swiss Alps: Climate change or land abandonment?. <i>Journal of Vegetation Science</i> , 2007 , 18, 571-582	3.1	431
207	Climate change and plant distribution: local models predict high-elevation persistence. <i>Global Change Biology</i> , 2009 , 15, 1557-1569	11.4	385
206	21st century climate change threatens mountain flora unequally across Europe. <i>Global Change Biology</i> , 2011 , 17, 2330-2341	11.4	377
205	Sensitivity of predictive species distribution models to change in grain size. <i>Diversity and Distributions</i> , 2007 , 13, 332-340	5	373
204	Habitat Suitability and Distribution Models: With Applications in R 2017 ,		356
203	Using niche-based models to improve the sampling of rare species. <i>Conservation Biology</i> , 2006 , 20, 501-16		335

202	Climate change and European forests: what do we know, what are the uncertainties, and what are the implications for forest management?. <i>Journal of Environmental Management</i> , 2014 , 146, 69-83	7.9	334
201	Accelerated increase in plant species richness on mountain summits is linked to warming. <i>Nature</i> , 2018 , 556, 231-234	50.4	329
200	Agricultural land abandonment and natural forest re-growth in the Swiss mountains: A spatially explicit economic analysis. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 118, 93-108	5.7	324
199	Predictive mapping of alpine grasslands in Switzerland: Species versus community approach. <i>Journal of Vegetation Science</i> , 1999 , 10, 469-482	3.1	312
198	Standards for distribution models in biodiversity assessments. <i>Science Advances</i> , 2019 , 5, eaat4858	14.3	309
197	What do we gain from simplicity versus complexity in species distribution models?. <i>Ecography</i> , 2014 , 37, 1267-1281	6.5	301
196	The impacts of increasing drought on forest dynamics, structure, and biodiversity in the United States. <i>Global Change Biology</i> , 2016 , 22, 2329-52	11.4	297
195	Towards novel approaches to modelling biotic interactions in multispecies assemblages at large spatial extents. <i>Journal of Biogeography</i> , 2012 , 39, 2163-2178	4.1	282
194	Water-use efficiency and transpiration across European forests during the Anthropocene. <i>Nature Climate Change</i> , 2015 , 5, 579-583	21.4	271
193	Climatic extremes improve predictions of spatial patterns of tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106 Suppl 2, 19723-8	11.5	267
192	Impacts of climate change on the world's most exceptional ecoregions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2306-11	11.5	256
191	WHAT MATTERS FOR PREDICTING THE OCCURRENCES OF TREES: TECHNIQUES, DATA, OR SPECIES' CHARACTERISTICS?. <i>Ecological Monographs</i> , 2007 , 77, 615-630	9	252
190	Competitive interactions between forest trees are driven by species' trait hierarchy, not phylogenetic or functional similarity: implications for forest community assembly. <i>Ecology Letters</i> , 2012 , 15, 831-40	10	230
189	Going against the flow: potential mechanisms for unexpected downslope range shifts in a warming climate. <i>Ecography</i> , 2010 , 33, 295	6.5	219
188	Invasive species distribution models [How violating the equilibrium assumption can create new insights. <i>Global Ecology and Biogeography</i> , 2012 , 21, 1126-1136	6.1	207
187	How to understand species niches and range dynamics: a demographic research agenda for biogeography. <i>Journal of Biogeography</i> , 2012 , 39, 2146-2162	4.1	205
186	Investigating the regional-scale pattern of agricultural land abandonment in the Swiss mountains: A spatial statistical modelling approach. <i>Landscape and Urban Planning</i> , 2007 , 79, 65-76	7.7	194
185	Predicting future distributions of mountain plants under climate change: does dispersal capacity matter?. <i>Ecography</i> , 2009 , 32, 34-45	6.5	188

184	Comparison of Methods for Interpolating Soil Properties Using Limited Data. <i>Soil Science Society of America Journal</i> , 2001 , 65, 470-479	2.5	177
183	Predicting tree species presence and basal area in Utah: A comparison of stochastic gradient boosting, generalized additive models, and tree-based methods. <i>Ecological Modelling</i> , 2006 , 199, 176-187		174
182	New trends in species distribution modelling. <i>Ecography</i> , 2010 , 33, 985-989	6.5	172
181	Climate, competition and connectivity affect future migration and ranges of European trees. <i>Global Ecology and Biogeography</i> , 2012 , 21, 164-178	6.1	168
180	An Improved Canopy Integration Scheme for a Land Surface Model with Prognostic Canopy Structure. <i>Journal of Climate</i> , 2007 , 20, 3902-3923	4.4	163
179	No growth stimulation of Canada's boreal forest under half-century of combined warming and CO ₂ fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E8406-E8414	11.5	161
178	Allometric equations for integrating remote sensing imagery into forest monitoring programmes. <i>Global Change Biology</i> , 2017 , 23, 177-190	11.4	160
177	Prediction of plant species distributions across six millennia. <i>Ecology Letters</i> , 2008 , 11, 357-69	10	159
176	Biotic and abiotic variables show little redundancy in explaining tree species distributions. <i>Ecography</i> , 2010 , 33, 1038-1048	6.5	156
175	Remote sensing-based predictors improve distribution models of rare, early successional and broadleaf tree species in Utah. <i>Journal of Applied Ecology</i> , 2007 , 44, 1057-1067	5.8	148
174	TreeMig: A forest-landscape model for simulating spatio-temporal patterns from stand to landscape scale. <i>Ecological Modelling</i> , 2006 , 199, 409-420	3	148
173	Range dynamics of mountain plants decrease with elevation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1848-1853	11.5	146
172	Within-taxon niche structure: niche conservatism, divergence and predicted effects of climate change. <i>Ecography</i> , 2010 , 33, 990-1003	6.5	145
171	Divergent vegetation growth responses to the 2003 heat wave in the Swiss Alps. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	143
170	A standard protocol for reporting species distribution models. <i>Ecography</i> , 2020 , 43, 1261-1277	6.5	141
169	Benchmarking novel approaches for modelling species range dynamics. <i>Global Change Biology</i> , 2016 , 22, 2651-64	11.4	137
168	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. <i>Ecological Monographs</i> , 2019 , 89, e01370	9	135
167	Improving generalized regression analysis for the spatial prediction of forest communities. <i>Journal of Biogeography</i> , 2006 , 33, 1729-1749	4.1	130

166	Emerging role of wetland methane emissions in driving 21st century climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9647-9652	11.5	124
165	Species distribution models reveal apparent competitive and facilitative effects of a dominant species on the distribution of tundra plants. <i>Ecography</i> , 2010 , 33, 1004-1014	6.5	124
164	Building the niche through time: using 13,000 years of data to predict the effects of climate change on three tree species in Europe. <i>Global Ecology and Biogeography</i> , 2013 , 22, 302-317	6.1	120
163	Where, why and how? Explaining the low-temperature range limits of temperate tree species. <i>Journal of Ecology</i> , 2016 , 104, 1076-1088	6	120
162	Comparing species interaction networks along environmental gradients. <i>Biological Reviews</i> , 2018 , 93, 785-800	13.5	119
161	Plant functional type mapping for earth system models. <i>Geoscientific Model Development</i> , 2011 , 4, 993-1010	13.0	119
160	Uncertainty in ensembles of global biodiversity scenarios. <i>Nature Communications</i> , 2019 , 10, 1446	17.4	115
159	Genetic diversity in widespread species is not congruent with species richness in alpine plant communities. <i>Ecology Letters</i> , 2012 , 15, 1439-48	10	108
158	Spatial predictions at the community level: from current approaches to future frameworks. <i>Biological Reviews</i> , 2017 , 92, 169-187	13.5	106
157	Assessing land-use statistics to model land cover change in a mountainous landscape in the European Alps. <i>Ecological Modelling</i> , 2008 , 212, 460-471	3	106
156	Effects of sample survey design on the accuracy of classification tree models in species distribution models. <i>Ecological Modelling</i> , 2006 , 199, 132-141	3	106
155	Co-occurrence patterns of trees along macro-climatic gradients and their potential influence on the present and future distribution of <i>Fagus sylvatica</i> L.. <i>Journal of Biogeography</i> , 2011 , 38, 371-382	4.1	103
154	Does probability of occurrence relate to population dynamics?. <i>Ecography</i> , 2014 , 37, 1155-1166	6.5	98
153	Are forest disturbances amplifying or canceling out climate change-induced productivity changes in European forests?. <i>Environmental Research Letters</i> , 2017 , 12, 034027	6.2	95
152	Effects of competition on tree radial-growth vary in importance but not in intensity along climatic gradients. <i>Journal of Ecology</i> , 2011 , 99, 300-312	6	87
151	Hyperspectral remote sensing for estimating aboveground biomass and for exploring species richness patterns of grassland habitats. <i>International Journal of Remote Sensing</i> , 2011 , 32, 9007-9031	3.1	87
150	Sampling in ecology and evolution - bridging the gap between theory and practice. <i>Ecography</i> , 2010 , 33, 1028-1037	6.5	86
149	Conservation of phylogeographic lineages under climate change. <i>Global Ecology and Biogeography</i> , 2013 , 22, 93-104	6.1	82

148	Observational evidence from two mountainous regions that near-surface wind speeds are declining more rapidly at higher elevations than lower elevations: 1960–2006. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	82
147	The effects of land use and climate change on the carbon cycle of Europe over the past 500 years. <i>Global Change Biology</i> , 2012 , 18, 902-914	11.4	81
146	Regeneration in Gap Models: Priority Issues for Studying Forest Responses to Climate Change. <i>Climatic Change</i> , 2001 , 51, 475-508	4.5	81
145	The El Niño–Southern Oscillation and wetland methane interannual variability. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	76
144	The future of terrestrial mammals in the Mediterranean basin under climate change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 2681-92	5.8	76
143	The upward shift in altitude of pine mistletoe (<i>Viscum album</i> ssp. <i>austriacum</i>) in Switzerland—the result of climate warming?. <i>International Journal of Biometeorology</i> , 2005 , 50, 40-7	3.7	76
142	Imprints of natural selection along environmental gradients in phenology-related genes of <i>Quercus petraea</i> . <i>Genetics</i> , 2013 , 195, 495-512	4	75
141	Alternative forest management strategies to account for climate change-induced productivity and species suitability changes in Europe. <i>Regional Environmental Change</i> , 2015 , 15, 1581-1594	4.3	69
140	Topo-climatic microrefugia explain the persistence of a rare endemic plant in the Alps during the last 21 millennia. <i>Global Change Biology</i> , 2014 , 20, 2286-300	11.4	68
139	Vegetation classification and biogeography of European floodplain forests and alder carrs. <i>Applied Vegetation Science</i> , 2016 , 19, 147-163	3.3	68
138	Phylogenetic patterns of climatic, habitat and trophic niches in a European avian assemblage. <i>Global Ecology and Biogeography</i> , 2014 , 23, 414-424	6.1	67
137	Global pattern of phytoplankton diversity driven by temperature and environmental variability. <i>Science Advances</i> , 2019 , 5, eaau6253	14.3	66
136	Relationships among levels of biodiversity and the relevance of intraspecific diversity in conservation: a project synopsis. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2008 , 10, 259-281	3.1	65
135	Impacts of land cover and climate data selection on understanding terrestrial carbon dynamics and the CO ₂ airborne fraction. <i>Biogeosciences</i> , 2011 , 8, 2027-2036	4.6	64
134	Altitudinal and horizontal shifts of the upper boundaries of open and closed forests in the Polar Urals in the 20th century. <i>Russian Journal of Ecology</i> , 2007 , 38, 223-227	0.7	64
133	Mutualism with sea anemones triggered the adaptive radiation of clownfishes. <i>BMC Evolutionary Biology</i> , 2012 , 12, 212	3	63
132	MODEL-BASED STRATIFICATIONS FOR ENHANCING THE DETECTION OF RARE ECOLOGICAL EVENTS. <i>Ecology</i> , 2005 , 86, 1081-1090	4.6	63
131	Threats from climate change to terrestrial vertebrate hotspots in Europe. <i>PLoS ONE</i> , 2013 , 8, e74989	3.7	61

130	Adaptive and plastic responses of <i>Quercus petraea</i> populations to climate across Europe. <i>Global Change Biology</i> , 2017 , 23, 2831-2847	11.4	60
129	Combining ensemble modeling and remote sensing for mapping individual tree species at high spatial resolution. <i>Forest Ecology and Management</i> , 2013 , 310, 64-73	3.9	59
128	Will climate change reduce the efficacy of protected areas for amphibian conservation in Italy?. <i>Biological Conservation</i> , 2011 , 144, 989-997	6.2	59
127	Fossils matter: improved estimates of divergence times in <i>Pinus</i> reveal older diversification. <i>BMC Evolutionary Biology</i> , 2017 , 17, 95	3	58
126	A new GLM-based method for mapping tree cover continuous fields using regional MODIS reflectance data. <i>Remote Sensing of Environment</i> , 2005 , 95, 428-443	13.2	58
125	MULTISCALE ANALYSIS OF ACTIVE SEED DISPERSAL CONTRIBUTES TO RESOLVING REID'S PARADOX. <i>Ecology</i> , 2004 , 85, 490-506	4.6	57
124	Thermal niches are more conserved at cold than warm limits in arctic-alpine plant species. <i>Global Ecology and Biogeography</i> , 2013 , 22, 933-941	6.1	54
123	Scale decisions can reverse conclusions on community assembly processes. <i>Global Ecology and Biogeography</i> , 2014 , 23, 620-632	6.1	51
122	Changes in alpine plant growth under future climate conditions. <i>Biogeosciences</i> , 2010 , 7, 2013-2024	4.6	51
121	A framework for modeling adaptive forest management and decision making under climate change. <i>Ecology and Society</i> , 2017 , 22,	4.1	50
120	Long-distance migratory birds threatened by multiple independent risks from global change. <i>Nature Climate Change</i> , 2018 , 8, 992-996	21.4	50
119	Good-bye to tropical alpine plant giants under warmer climates? Loss of range and genetic diversity in. <i>Ecology and Evolution</i> , 2016 , 6, 8931-8941	2.8	49
118	Assessing species vulnerability to climate and land use change: the case of the Swiss breeding birds. <i>Diversity and Distributions</i> , 2014 , 20, 708-719	5	49
117	A matter of scale: apparent niche differentiation of diploid and tetraploid plants may depend on extent and grain of analysis. <i>Journal of Biogeography</i> , 2016 , 43, 716-726	4.1	49
116	Uncertainty in predictions of range dynamics: black grouse climbing the Swiss Alps. <i>Ecography</i> , 2012 , 35, 590-603	6.5	48
115	The European functional tree of bird life in the face of global change. <i>Nature Communications</i> , 2014 , 5, 3118	17.4	48
114	Estimating foliar biochemistry from hyperspectral data in mixed forest canopy. <i>Forest Ecology and Management</i> , 2008 , 256, 491-501	3.9	48
113	The effects of intransitive competition on coexistence. <i>Ecology Letters</i> , 2017 , 20, 791-800	10	47

112	A greener Greenland? Climatic potential and long-term constraints on future expansions of trees and shrubs. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120479	5.8	47
111	Allopatric speciation with little niche divergence is common among alpine Primulaceae. <i>Journal of Biogeography</i> , 2016 , 43, 591-602	4.1	46
110	Do the elevational limits of deciduous tree species match their thermal latitudinal limits?. <i>Global Ecology and Biogeography</i> , 2013 , 22, 913-923	6.1	46
109	Neophyte species richness at the landscape scale under urban sprawl and climate warming. <i>Diversity and Distributions</i> , 2009 , 15, 928-939	5	44
108	Evaluating thermal treeline indicators based on air and soil temperature using an air-to-soil temperature transfer model. <i>Ecological Modelling</i> , 2008 , 213, 345-355	3	44
107	Cross-scale analysis of the region effect on vascular plant species diversity in southern and northern European mountain ranges. <i>PLoS ONE</i> , 2010 , 5, e15734	3.7	43
106	Evaluating sampling strategies and logistic regression methods for modelling complex land cover changes. <i>Journal of Applied Ecology</i> , 2007 , 44, 414-424	5.8	43
105	Plant nutrients do not covary with soil nutrients under changing climatic conditions. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1298-1308	5.9	42
104	Next generation biogeography: towards understanding the drivers of species diversification and persistence. <i>Journal of Biogeography</i> , 2013 , 40, 1013-1022	4.1	42
103	Risks of global warming on montane and subalpine forests in Switzerland – a modeling study. <i>Regional Environmental Change</i> , 2000 , 1, 99-111	4.3	42
102	Implementation and application of multiple potential natural vegetation models – a case study of Hungary. <i>Journal of Vegetation Science</i> , 2017 , 28, 1260-1269	3.1	40
101	Understanding the low-temperature limitations to forest growth through calibration of a forest dynamics model with tree-ring data. <i>Forest Ecology and Management</i> , 2007 , 246, 251-263	3.9	39
100	Where are the wild things? Why we need better data on species distribution. <i>Global Ecology and Biogeography</i> , 2014 , 23, 457-467	6.1	37
99	Effects of a fire response trait on diversification in replicated radiations. <i>Evolution; International Journal of Organic Evolution</i> , 2014 , 68, 453-65	3.8	37
98	Past climate-driven range shifts and population genetic diversity in arctic plants. <i>Journal of Biogeography</i> , 2016 , 43, 461-470	4.1	36
97	Anticipating the spatio-temporal response of plant diversity and vegetation structure to climate and land use change in a protected area. <i>Ecography</i> , 2014 , 37, 1230-1239	6.5	36
96	Genomics of the divergence continuum in an African plant biodiversity hotspot, I: drivers of population divergence in <i>Restio capensis</i> (Restionaceae). <i>Molecular Ecology</i> , 2014 , 23, 4373-86	5.7	36
95	Are different facets of plant diversity well protected against climate and land cover changes? A test study in the French Alps. <i>Ecography</i> , 2014 , 37, 1254-1266	6.5	36

94	Does phylogeographical structure relate to climatic niche divergence? A test using maritime pine (<i>Pinus pinaster</i> Ait.). <i>Global Ecology and Biogeography</i> , 2015 , 24, 1302-1313	6.1	36
93	Model complexity affects species distribution projections under climate change. <i>Journal of Biogeography</i> , 2020 , 47, 130-142	4.1	36
92	Modeling spatiotemporal dynamics of global wetlands: comprehensive evaluation of a new sub-grid TOPMODEL parameterization and uncertainties. <i>Biogeosciences</i> , 2016 , 13, 1387-1408	4.6	34
91	Macroecology in the age of Big Data [Where to go from here?]. <i>Journal of Biogeography</i> , 2020 , 47, 1-12	4.1	34
90	Enhanced response of global wetland methane emissions to the 2015-2016 El Niño-Southern Oscillation event. <i>Environmental Research Letters</i> , 2018 , 13,	6.2	34
89	Plant functional diversity modulates global environmental change effects on grassland productivity. <i>Journal of Ecology</i> , 2018 , 106, 1941-1951	6	33
88	Extinction debts and colonization credits of non-forest plants in the European Alps. <i>Nature Communications</i> , 2019 , 10, 4293	17.4	32
87	Natural forest regrowth as a proxy variable for agricultural land abandonment in the Swiss mountains: a spatial statistical model based on geophysical and socio-economic variables. <i>Environmental Modeling and Assessment</i> , 2007 , 12, 269-278	2	32
86	Field evidence of colonisation by Holm Oak, at the northern margin of its distribution range, during the Anthropocene period. <i>PLoS ONE</i> , 2013 , 8, e80443	3.7	31
85	Tree cover at fine and coarse spatial grains interacts with shade tolerance to shape plant species distributions across the Alps. <i>Ecography</i> , 2015 , 38, 578-589	6.5	30
84	Trophic specialization influences the rate of environmental niche evolution in damselfishes (Pomacentridae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 3662-9	4.4	30
83	Elevational rear edges shifted at least as much as leading edges over the last century. <i>Global Ecology and Biogeography</i> , 2019 , 28, 533-543	6.1	30
82	Case study of the implications of climate change for lichen diversity and distributions. <i>Biodiversity and Conservation</i> , 2017 , 26, 1121-1141	3.4	29
81	Large-scale early-wilting response of Central European forests to the 2018 extreme drought. <i>Global Change Biology</i> , 2020 , 26, 7021-7035	11.4	29
80	Uncertainty in predicting range dynamics of endemic alpine plants under climate warming. <i>Global Change Biology</i> , 2016 , 22, 2608-19	11.4	28
79	Space matters when defining effective management for invasive plants. <i>Diversity and Distributions</i> , 2014 , 20, 1029-1043	5	27
78	Disjunct populations of European vascular plant species keep the same climatic niches. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1401-1412	6.1	26
77	Testing species assemblage predictions from stacked and joint species distribution models. <i>Journal of Biogeography</i> , 2020 , 47, 101-113	4.1	26

76	Understanding species and community response to environmental change from a functional trait perspective. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 145, 1-4	5.7	25
75	Do long-distance migratory birds track their niche through seasons?. <i>Journal of Biogeography</i> , 2018 , 45, 1459-1468	4.1	25
74	Sensitivity of global terrestrial carbon cycle dynamics to variability in satellite-observed burned area. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 207-222	5.9	24
73	Modelling plant species richness using functional groups. <i>Ecological Modelling</i> , 2009 , 220, 962-967	3	24
72	Modelling the effect of habitat fragmentation on climate-driven migration of European forest understorey plants. <i>Diversity and Distributions</i> , 2015 , 21, 1375-1387	5	23
71	The productivity-biodiversity relationship varies across diversity dimensions. <i>Nature Communications</i> , 2019 , 10, 5691	17.4	23
70	Assessing vulnerability of two Mediterranean conifers to support genetic conservation management in the face of climate change. <i>Diversity and Distributions</i> , 2017 , 23, 507-516	5	22
69	Extreme climate events counteract the effects of climate and land-use changes in Alpine treelines. <i>Journal of Applied Ecology</i> , 2017 , 54, 39-50	5.8	22
68	Modelling plant species distribution in alpine grasslands using airborne imaging spectroscopy. <i>Biology Letters</i> , 2014 , 10,	3.6	22
67	Impacts of climate change on Swiss biodiversity: An indicator taxa approach. <i>Biological Conservation</i> , 2011 , 144, 866-875	6.2	22
66	Environment and evolutionary history shape phylogenetic turnover in European tetrapods. <i>Nature Communications</i> , 2019 , 10, 249	17.4	22
65	Of niches and distributions: range size increases with niche breadth both globally and regionally but regional estimates poorly relate to global estimates. <i>Ecography</i> , 2019 , 42, 467-477	6.5	21
64	Characterization of an alpine tree line using airborne LiDAR data and physiological modeling. <i>Global Change Biology</i> , 2013 , 19, 3808-21	11.4	21
63	Identifying habitat suitability for hazel grouse <i>Bonasa bonasia</i> at the landscape scale. <i>Wildlife Biology</i> , 2006 , 12, 357-366	1.7	21
62	Growth of Norway spruce (<i>Picea abies</i> L.) saplings in subalpine forests in Switzerland: Does spring climate matter?. <i>Forest Ecology and Management</i> , 2006 , 228, 19-32	3.9	21
61	Sensitivity assessment on continuous landscape variables to classify a discrete forest area. <i>Forest Ecology and Management</i> , 2006 , 229, 111-119	3.9	21
60	The Treasure Vault Can be Opened: Large-Scale Genome Skimming Works Well Using Herbarium and Silica Gel Dried Material. <i>Plants</i> , 2020 , 9,	4.5	20
59	Host plant availability potentially limits butterfly distributions under cold environmental conditions. <i>Ecography</i> , 2014 , 37, 301-308	6.5	20

58	Niches and noiseDisentangling habitat diversity and area effect on species diversity. <i>Ecological Complexity</i> , 2011 , 8, 313-319	2.6	20
57	Combining probabilistic land-use change and tree population dynamics modelling to simulate responses in mountain forests. <i>Ecological Modelling</i> , 2007 , 209, 157-168	3	20
56	Response of spatial vegetation distribution in China to climate changes since the Last Glacial Maximum (LGM). <i>PLoS ONE</i> , 2017 , 12, e0175742	3.7	20
55	High-resolution monthly precipitation and temperature time series from 2006 to 2100. <i>Scientific Data</i> , 2020 , 7, 248	8.2	20
54	Migration corridors for alpine plants among the sky islands of eastern Africa: do they, or did they exist?. <i>Alpine Botany</i> , 2017 , 127, 133-144	2.5	19
53	Disentangling drivers of plant endemism and diversification in the European Alps A phylogenetic and spatially explicit approach. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2017 , 28, 19-27	3	19
52	Accounting for tree line shift, glacier retreat and primary succession in mountain plant distribution models. <i>Diversity and Distributions</i> , 2014 , 20, 1379-1391	5	19
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