Christophe Randin

List of Publications by Year
in descending order

68 papers	10,405 citations	61984 43 h-index	98798 67 g-index
69 all docs	69 docs citations	69 times ranked	12444 citing authors

#	Article	IF	Citations
1	Measuring ecological niche overlap from occurrence and spatial environmental data. Global Ecology and Biogeography, 2012, 21, 481-497.	5.8	1,130
2	Evaluating the ability of habitat suitability models to predict species presences. Ecological Modelling, 2006, 199, 142-152.	2.5	1,031
3	Niche dynamics in space and time. Trends in Ecology and Evolution, 2008, 23, 149-158.	8.7	807
4	ecospat: an R package to support spatial analyses and modeling of species niches and distributions. Ecography, 2017, 40, 774-787.	4.5	703
5	Climatic Niche Shifts Are Rare Among Terrestrial Plant Invaders. Science, 2012, 335, 1344-1348.	12.6	689
6	Are niche-based species distribution models transferable in space?. Journal of Biogeography, 2006, 33, 1689-1703.	3.0	638
7	21st century climate change threatens mountain flora unequally across Europe. Global Change Biology, 2011, 17, 2330-2341.	9.5	478
8	Climate change and plant distribution: local models predict highâ€elevation persistence. Global Change Biology, 2009, 15, 1557-1569.	9.5	450
9	Outstanding Challenges in the Transferability of Ecological Models. Trends in Ecology and Evolution, 2018, 33, 790-802.	8.7	403
10	Modelling ecological niches with support vector machines. Journal of Applied Ecology, 2006, 43, 424-432.	4.0	270
11	Predicting future distributions of mountain plants under climate change: does dispersal capacity matter?. Ecography, 2009, 32, 34-45.	4.5	229
12	Importance of abiotic stress as a rangeâ€limit determinant for European plants: insights from species responses to climatic gradients. Global Ecology and Biogeography, 2009, 18, 437-449.	5.8	194
13	Overcoming the rare species modelling paradox: A novel hierarchical framework applied to an Iberian endemic plant. Biological Conservation, 2010, 143, 2647-2657.	4.1	187
14	Prediction of plant species distributions across six millennia. Ecology Letters, 2008, 11, 357-369.	6.4	183
15	Where, why and how? Explaining the lowâ€temperature range limits of temperate tree species. Journal of Ecology, 2016, 104, 1076-1088.	4.0	171
16	Species distribution models reveal apparent competitive and facilitative effects of a dominant species on the distribution of tundra plants. Ecography, 2010, 33, 1004-1014.	4.5	148
17	Monitoring biodiversity in the Anthropocene using remote sensing in species distribution models. Remote Sensing of Environment, 2020, 239, 111626.	11.0	142
18	Elevational adaptation and plasticity in seedling phenology of temperate deciduous tree species. Oecologia, 2013, 171, 663-678.	2.0	122

#	Article	IF	Citations
19	The accuracy of plant assemblage prediction from species distribution models varies along environmental gradients. Global Ecology and Biogeography, 2013, 22, 52-63.	5.8	121
20	Very high resolution digital elevation models: Do they improve models of plant species distribution?. Ecological Modelling, 2006, 198, 139-153.	2.5	115
21	Temperature variation among mangrove latitudinal range limits worldwide. Trees - Structure and Function, 2012, 26, 1919-1931.	1.9	115
22	Spring frost and growing season length coâ€control the cold range limits of broadâ€leaved trees. Journal of Biogeography, 2014, 41, 773-783.	3.0	105
23	Low impact of climate change on subalpine grasslands in the Swiss Northern Alps. Global Change Biology, 2009, 15, 209-220.	9.5	101
24	Very high resolution environmental predictors in species distribution models. Progress in Physical Geography, 2014, 38, 79-96.	3.2	95
25	Divergent and narrower climatic niches characterize polyploid species of European primroses in <i>Primula</i> sect. <i>Aleuritia</i>. Journal of Biogeography, 2013, 40, 1278-1289.	3.0	90
26	Water availability predicts forest canopy height at the globalÂscale. Ecology Letters, 2015, 18, 1311-1320.	6.4	87
27	Warmer winters reduce the advance of tree spring phenology induced by warmer springs in the Alps. Agricultural and Forest Meteorology, 2018, 252, 220-230.	4.8	87
28	Topoâ€climatic microrefugia explain the persistence of a rare endemic plant in the Alps during the last 21 millennia. Global Change Biology, 2014, 20, 2286-2300.	9.5	85
29	Variation in habitat suitability does not always relate to variation in species' plant functional traits. Biology Letters, 2010, 6, 120-123.	2.3	80
30	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.	4.0	74
31	Changes in reproductive investment with altitude in an alpine plant. Journal of Plant Ecology, 2009, 2, 125-134.	2.3	73
32	Will climate change drive alien invasive plants into areas of high protection value? An improved model-based regional assessment to prioritise the management of invasions. Journal of Environmental Management, 2013, 131, 185-195.	7.8	68
33	Tree recruitment of European tree species at their current upper elevational limits in the Swiss Alps. Journal of Biogeography, 2012, 39, 1439-1449.	3.0	67
34	Where will conflicts between alien and rare species occur after climate and land-use change? A test with a novel combined modelling approach. Biological Invasions, 2011, 13, 1209-1227.	2.4	63
35	Thermal niches are more conserved at cold than warm limits in arcticâ€alpine plant species. Global Ecology and Biogeography, 2013, 22, 933-941.	5.8	60
36	Introduction of Snow and Geomorphic Disturbance Variables into Predictive Models of Alpine Plant Distribution in the Western Swiss Alps. Arctic, Antarctic, and Alpine Research, 2009, 41, 347-361.	1.1	59

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37	What drives invasibility? A multiâ€model inference test and spatial modelling of alien plant species richness patterns in northern Portugal. Ecography, 2010, 33, 1081-1092.	4.5	59
38	Land use improves spatial predictions of mountain plant abundance but not presenceâ€absence. Journal of Vegetation Science, 2009, 20, 996-1008.	2.2	57
39	Do the elevational limits of deciduous tree species match their thermal latitudinal limits?. Global Ecology and Biogeography, 2013, 22, 913-923.	5.8	52
40	Predicting fine-scale tree species abundance patterns using biotic variables derived from LiDAR and high spatial resolution imagery. Remote Sensing of Environment, 2014, 150, 120-131.	11.0	47
41	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.	4.8	46
42	Disentangling the effects of global climate and regional land-use change on the current and future distribution of mangroves in South Africa. Biodiversity and Conservation, 2013, 22, 1369-1390.	2.6	45
43	Functional homogenization of bumblebee communities in alpine landscapes under projected climate change. Climate Change Responses, 2014, 1, .	2.6	44
44	The tempo of greening in the European Alps: Spatial variations on a common theme. Global Change Biology, 2021, 27, 5614-5628.	9.5	44
45	Climate change impacts on water resources in the Mediterranean. Regional Environmental Change, 2020, 20, 1.	2.9	43
46	Genetic vs. nonâ€genetic responses of leaf morphology and growth to elevation in temperate tree species. Functional Ecology, 2014, 28, 243-252.	3.6	39
47	Working toward integrated models of alpine plant distribution. Alpine Botany, 2013, 123, 41-53.	2.4	31
48	A framework for assessing the scale of influence of environmental factors on ecological patterns. Ecological Complexity, 2014, 20, 151-156.	2.9	28
49	Forecasting range shifts of a coldâ€adapted species under climate change: are genomic and ecological diversity within species crucial for future resilience?. Ecography, 2018, 41, 1357-1369.	4.5	28
50	Environment and dispersal paths override life strategies and residence time in determining regional patterns of invasion by alien plants. Perspectives in Plant Ecology, Evolution and Systematics, 2014, 16, 1-10.	2.7	26
51	How Do Cold-Adapted Plants Respond to Climatic Cycles? Interglacial Expansion Explains Current Distribution and Genomic Diversity in Primula farinosa L.. Systematic Biology, 2017, 66, 715-736.	5.6	26
52	Toward a definition of Essential Mountain Climate Variables. One Earth, 2021, 4, 805-827.	6.8	26
53	Accounting for tree line shift, glacier retreat and primary succession in mountain plant distribution models. Diversity and Distributions, 2014, 20, 1379-1391.	4.1	24
54	Gloger's rule in North American Barn Owls. Auk, 2015, 132, 321-332.	1.4	24

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55	Using Life Strategies to Explore the Vulnerability of Ecosystem Services to Invasion by Alien Plants. Ecosystems, 2013, 16, 678-693.	3.4	22
56	Do floral and niche shifts favour the establishment and persistence of newly arisen polyploids? A case study in an Alpine primrose. Annals of Botany, 2017, 119, 81-93.	2.9	22
57	Response to Comment on â€œClimatic Niche Shifts Are Rare Among Terrestrial Plant Invadersâ€. Science, 2012, 338, 193-193.	12.6	21
58	A spatial modelling framework for assessing climate change impacts on freshwater ecosystems: Response of brown trout (Salmo trutta L.) biomass to warming water temperature. Ecological Modelling, 2015, 313, 1-12.	2.5	19
59	Unrestricted quality of seeds in European broad-leaved tree species growing at the cold boundary of their distribution. Annals of Botany, 2012, 109, 473-480.	2.9	17
60	Patternâ€recognition ecological niche models fit to presenceâ€only and presenceâ€“absence data. Methods in Ecology and Evolution, 2014, 5, 761-770.	5.2	17
61	The contribution of cold air pooling to the distribution of a rare and endemic plant of the Alps. Plant Ecology and Diversity, 2017, 10, 29-42.	2.4	15
62	Process-based models outcompete correlative models in projecting spring phenology of trees in a future warmer climate. Agricultural and Forest Meteorology, 2020, 285-286, 107931.	4.8	13
63	Moderately urbanized areas as a conservation opportunity for an endangered songbird. Landscape and Urban Planning, 2019, 181, 1-9.	7.5	9
64	Barn owls display larger black feather spots in cooler regions of the British Isles. Biological Journal of the Linnean Society, 2016, 119, 445-454.	1.6	8
65	A quantitative assessment of rockfall influence on forest structure in the Swiss Alps. European Journal of Forest Research, 2021, 140, 91-104.	2.5	6
66	Climate Change Impacts the Protective Effect of Forests: A Case Study in Switzerland. Frontiers in Forests and Global Change, 2021, 4, .	2.3	6
67	Validation of and comparison between a semidistributed rainfallâ€“runoff hydrological model (PREVAH) and a spatially distributed snowâ€evolution model (SnowModel) for snow cover prediction in mountain ecosystems. Ecohydrology, 2015, 8, 1181-1193.	2.4	5
68	A Comparison of Climatic Niches of the Same Alpine Plant Species in the Central Caucasus and the Alps. Geobotany Studies, 2017, , 133-144.	0.2	0