Robert J Hijmans

List of Publications by Year
in descending order

87 papers	42,268 citations	70961 41 h-index	49773 87 g-index
87 all docs	87 docs citations	87 times ranked	42745 citing authors

#	Article	IF	Citations
1	Very high resolution interpolated climate surfaces for global land areas. International Journal of Climatology, 2005, 25, 1965-1978.	1.5	16,568
2	WorldClim 2: new 1â€km spatial resolution climate surfaces for global land areas. International Journal of Climatology, 2017, 37, 4302-4315.	1.5	8,707
3	Novel methods improve prediction of speciesâ€™ distributions from occurrence data. Ecography, 2006, 29, 129-151.	2.1	6,691
4	Effects of sample size on the performance of species distribution models. Diversity and Distributions, 2008, 14, 763-773.	1.9	1,771
5	The ability of climate envelope models to predict the effect of climate change on species distributions. Global Change Biology, 2006, 12, 2272-2281.	4.2	917
6	Climate change, wine, and conservation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6907-6912.	3.3	571
7	Aligning Conservation Priorities Across Taxa in Madagascar with High-Resolution Planning Tools. Science, 2008, 320, 222-226.	6.0	484
8	Crossâ€validation of species distribution models: removing spatial sorting bias and calibration with a null model. Ecology, 2012, 93, 679-688.	1.5	466
9	Locating Pleistocene Refugia: Comparing Phylogeographic and Ecological Niche Model Predictions. PLoS ONE, 2007, 2, e563.	1.1	444
10	The influence of spatial errors in species occurrence data used in distribution models. Journal of Applied Ecology, 2008, 45, 239-247.	1.9	401
11	The effect of climate change on global potato production. American Journal of Potato Research, 2003, 80, 271-279.	0.5	329
12	A comparison of methods for mapping species ranges and species richness. Global Ecology and Biogeography, 2006, 15, 578-587.	2.7	322
13	The effect of climate change on crop wild relatives. Agriculture, Ecosystems and Environment, 2008, 126, 13-23.	2.5	305
14	The point-radius method for georeferencing locality descriptions and calculating associated uncertainty. International Journal of Geographical Information Science, 2004, 18, 745-767.	2.2	294
15	Global trends in dietary micronutrient supplies and estimated prevalence of inadequate intakes. PLoS ONE, 2017, 12, e0175554.	1.1	260
16	Geographic distribution of wild potato species. American Journal of Botany, 2001, 88, 2101-2112.	0.8	239
17	Multiple lines of evidence for the origin of domesticated chili pepper, Capsicum annuum , in Mexico. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6165-6170.	3.3	203
18	The contribution of rice agriculture and livestock pastoralism to prehistoric methane levels. Holocene, 2011, 21, 743-759.	0.9	194

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19	Title is missing!. Genetic Resources and Crop Evolution, 1999, 46, 547-555.	0.8	161
20	Phylogeographic Lineages and Species Comparisons in Conservation Analyses: A Case Study of California Herpetofauna. American Naturalist, 2006, 167, 655-666.	1.0	160
21	Geographical and environmental range expansion through polyploidy in wild potatoes (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock	2.7	124
22	Climate change adaptation for conservation in Madagascar. Biology Letters, 2008, 4, 590-594.	1.0	123
23	Potato systematics and germplasm collecting, 1989â€“2000. American Journal of Potato Research, 2001, 78, 237-268.	0.5	120
24	Estimating the global severity of potato late blight with GIS-linked disease forecast models. Plant Pathology, 2000, 49, 697-705.	1.2	111
25	Climate change and the origin of migratory pathways in the Swainson's thrush, Catharus ustulatus. Journal of Biogeography, 2006, 33, 1172-1182.	1.4	106
26	Genetic analysis of the cultivated potato Solanum tuberosum L. Phureja Group using RAPDs and nuclear SSRs. Theoretical and Applied Genetics, 2006, 113, 1515-1527.	1.8	106
27	Wild Potatoes (Solanum section Petota; Solanaceae) of North and Central America. Systematic Botany Monographs, 2004, 68, 1.	1.2	102
28	Assessing the Geographic Representativeness of Genebank Collections: the Case of Bolivian Wild Potatoes. Conservation Biology, 2000, 14, 1755-1765.	2.4	95
29	Global distribution of the potato crop. American Journal of Potato Research, 2001, 78, 403-412.	0.5	94
30	BioGeomancer: Automated Georeferencing to Map the World's Biodiversity Data. PLoS Biology, 2006, 4, e381.	2.6	89
31	Historical distribution of Sundalandâ€™s Dipterocarp rainforests at Quaternary glacial maxima. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16790-16795.	3.3	88
32	Uniting remote sensing, crop modelling and economics for agricultural risk management. Nature Reviews Earth & Environment, 2021, 2, 140-159.	12.2	88
33	AFLP assessment of diversity in sweetpotato from Latin America and the Pacific region: Its implications on the dispersal of the crop. Genetic Resources and Crop Evolution, 2004, 51, 115-120.	0.8	73
34	Using GIS to check co-ordinates of genebank accessions. Genetic Resources and Crop Evolution, 1999, 46, 291-296.	0.8	66
35	Climate change may have limited effect on global risk of potato late blight. Global Change Biology, 2014, 20, 3621-3631.	4.2	65
36	The environmental consequences of climate-driven agricultural frontiers. PLoS ONE, 2020, 15, e0228305.	1.1	58

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37	Title is missing!. Genetic Resources and Crop Evolution, 1998, 45, 271-277.	0.8	53
38	A Geospatial Modelling Approach Integrating Archaeobotany and Genetics to Trace the Origin and Dispersal of Domesticated Plants. PLoS ONE, 2010, 5, e12060.	1.1	51
39	Fertilizer and grain prices constrain food production in sub-Saharan Africa. Nature Food, 2021, 2, 766-772.	6.2	48
40	Title is missing!. Euphytica, 2003, 130, 47-59.	0.6	46
41	Geographic Distribution of Stem Rust Resistance in Wheat Landraces. Crop Science, 2007, 47, 1955-1963.	0.8	46
42	Improving nutrition security through agriculture: an analytical framework based on national food balance sheets to estimate nutritional adequacy of food supplies. Food Security, 2015, 7, 693-707.	2.4	45
43	Simulation of Potato Late Blight in the Andes. I: Modification and Parameterization of the LATEBLIGHT Model. Phytopathology, 2005, 95, 1191-1199.	1.1	44
44	How effective are the protected areas of East Africa?. Global Ecology and Conservation, 2019, 17, e00573.	1.0	44
45	A quantitative and constraint-specific method to assess the potential impact of new agricultural technology: the case of frost resistant potato for the Altiplano (Peru and Bolivia). Agricultural Systems, 2003, 76, 895-911.	3.2	43
46	Spatial variation in fertilizer prices in Sub-Saharan Africa. PLoS ONE, 2020, 15, e0227764.	1.1	43
47	Is the Climate Right for Pleistocene Rewilding? Using Species Distribution Models to Extrapolate Climatic Suitability for Mammals across Continents. PLoS ONE, 2010, 5, e12899.	1.1	39
48	Multiple sources of uncertainty affect metrics for ranking conservation risk under climate change. Diversity and Distributions, 2015, 21, 111-122.	1.9	39
49	Geographic Distribution of Common and Dwarf Bunt Resistance in Landraces of Triticum aestivum subsp. aestivum. Crop Science, 2006, 46, 1622-1629.	0.8	38
50	A comparison of methods for mapping species ranges and species richness. Global Ecology and Biogeography, 2006, .	2.7	37
51	Advances in climate models from CMIP3 to CMIP5 do not change predictions of future habitat suitability for California reptiles and amphibians. Climatic Change, 2016, 134, 579-591.	1.7	36
52	Simulation of Potato Late Blight in the Andes. II: Validation of the LATEBLIGHT Model. Phytopathology, 2005, 95, 1200-1208.	1.1	35
53	Managing Potato Biodiversity to Cope with Frost Risk in the High Andes: A Modeling Perspective. PLoS ONE, 2014, 9, e81510.	1.1	34
54	Qualification of a Plant Disease Simulation Model: Performance of the LATEBLIGHT Model Across a Broad Range of Environments. Phytopathology, 2005, 95, 1412-1422.	1.1	33

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55	Alternative biological assumptions strongly influence models of climate change effects on mountain gorillas. Ecosphere, 2013, 4, 1-17.	1.0	33
56	Land Use Intensification and Disintensification in the Upper CaÃ±ete Valley, Peru. Human Ecology, 1999, 27, 319-339.	0.7	32
57	Metaâ€corridor solutions for climateâ€vulnerable plant species groups in South Korea. Journal of Applied Ecology, 2017, 54, 1742-1754.	1.9	32
58	Quantifying the expression of potato genetic diversity in the high Andes through growth analysis and modeling. Field Crops Research, 2010, 119, 135-144.	2.3	28
59	A metamodelling approach to estimate global <scp><scp>N₂O</scp></scp> emissions from agricultural soils. Global Ecology and Biogeography, 2014, 23, 912-924.	2.7	24
60	Identification of high risk areas for avian influenza outbreaks in California using disease distribution models. PLoS ONE, 2018, 13, e0190824.	1.1	24
61	Spatiotemporal Patterns of Field Crop Diversity in the United States, 1870â€“2012. Agricultural and Environmental Letters, 2016, 1, 160022.	0.8	22
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73	Integrating the Rabinowitz rarity framework with a National Plant Inventory in South Korea. Ecology and Evolution, 2019, 9, 1353-1363.	0.8	14
74	Satellite-Based Observations Reveal Effects of Weather Variation on Rice Phenology. Remote Sensing, 2020, 12, 1522.	1.8	14
75	Evaluating the quality of remote sensing products for agricultural index insurance. PLoS ONE, 2021, 16, e0258215.	1.1	13
76	The Female Empowerment Index (FEMI): spatial and temporal variation in women's empowerment in Nigeria. Heliyon, 2020, 6, e03829.	1.4	12
77	The quality and contribution of volunteer collected animal vehicle collision data in ecological research. Ecological Indicators, 2019, 106, 105431.	2.6	11
78	Comment on â€œChanges in Climatic Water Balance Drive Downhill Shifts in Plant Speciesâ€™ Optimum Elevationsâ€• Science, 2011, 334, 177-177.	6.0	9
79	Opportunities for expanding paddy rice production in Laos: spatial predictive modeling using Random Forest. Journal of Land Use Science, 2012, 7, 21-33.	1.0	8
80	Methods for Spatial Prediction of Crop Yield Potential. Agronomy Journal, 2018, 110, 2322-2330.	0.9	7
81	Spatio-temporal variation in childhood growth in Nigeria: a comparison of aggregation and interpolation. International Journal of Digital Earth, 2017, 10, 1166-1176.	1.6	5
82	DISTRIBUTIONAL DYNAMICS OF INVASION AND HYBRIDIZATION BY STRIX SPP. IN WESTERN NORTH AMERICA. Ornithological Monographs, 2007, 63, 55.	1.3	5
83	Potential, attainable, and current levels of global crop diversity. Environmental Research Letters, 2022, 17, 044071.	2.2	5
84	Field Data Collection Methods Strongly Affect Satellite-Based Crop Yield Estimation. Remote Sensing, 2022, 14, 1995.	1.8	5
85	Reply to van Leeuwen et al.: Planning for agricultural adaptation to climate change and its consequences for conservation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3053.	3.3	4
86	Evaluation of Grain Î²â€Glucan Content in Barley Accessions from the USDA National Small Grains Collection. Crop Science, 2019, 59, 659-666.	0.8	2
87	Distributional Dynamics of Invasion and Hybridization by Strix spp. in Western North America. Ornithological Monographs, 2007, , 55-66.	1.3	1