Andy J Jarvis

List of Publications by Year
in descending order

62 papers	26,426 citations	66234 42 h-index	118652 62 g-index
70 all docs	70 docs citations	70 times ranked	34396 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	New Global Hydrography Derived From Spaceborne Elevation Data. Eos, 2008, 89, 93-94.	0.1	1,405
3	Climate-smart agriculture for food security. Nature Climate Change, 2014, 4, 1068-1072.	8.1	1,157
4	Increasing homogeneity in global food supplies and the implications for food security. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4001-4006.	3.3	757
5	An evaluation of voidâ€filling interpolation methods for SRTM data. International Journal of Geographical Information Science, 2007, 21, 983-1008.	2.2	611
6	Global conservation priorities for crop wild relatives. Nature Plants, 2016, 2, 16022.	4.7	415
7	Options for support to agriculture and food security under climate change. Environmental Science and Policy, 2012, 15, 136-144.	2.4	354
8	The effect of climate change on crop wild relatives. Agriculture, Ecosystems and Environment, 2008, 126, 13-23.	2.5	305
9	Quantifying the benefit of early climate change mitigation in avoiding biodiversity loss. Nature Climate Change, 2013, 3, 678-682.	8.1	291
10	Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272.	6.2	285
11	Is Cassava the Answer to African Climate Change Adaptation?. Tropical Plant Biology, 2012, 5, 9-29.	1.0	279
12	High-resolution and bias-corrected CMIP5 projections for climate change impact assessments. Scientific Data, 2020, 7, 7.	2.4	240
13	Addressing uncertainty in adaptation planning for agriculture. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8357-8362.	3.3	212
14	Timescales of transformational climate change adaptation in sub-Saharan African agriculture. Nature Climate Change, 2016, 6, 605-609.	8.1	199
15	Climate change adaptation of coffee production in space and time. Climatic Change, 2017, 141, 47-62.	1.7	179
16	A Gap Analysis Methodology for Collecting Crop Genepools: A Case Study with Phaseolus Beans. PLoS ONE, 2010, 5, e13497.	1.1	148
17	Using species distributions models for designing conservation strategies of Tropical Andean biodiversity under climate change. Journal for Nature Conservation, 2014, 22, 391-404.	0.8	145
18	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	5.1	135

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19	Crop wild relatives of pigeonpea [Cajanus cajan (L.) Millsp.]: Distributions, ex situ conservation status, and potential genetic resources for abiotic stress tolerance. Biological Conservation, 2015, 184, 259-270.	1.9	134
20	Gap analysis: a tool for complementary genetic conservation assessment. Diversity and Distributions, 2008, 14, 1018-1030.	1.9	133
21	The climate-smart village approach: framework of an integrative strategy for scaling up adaptation options in agriculture. Ecology and Society, 2018, 23, .	1.0	131
22	Origins of food crops connect countries worldwide. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160792.	1.2	125
23	Empirical approaches for assessing impacts of climate change on agriculture: The EcoCrop model and a case study with grain sorghum. Agricultural and Forest Meteorology, 2013, 170, 67-78.	1.9	115
24	Beyond climate-smart agriculture: toward safe operating spaces for global food systems. Agriculture and Food Security, 2013, 2, .	1.6	109
25	Implications of regional improvement in global climate models for agricultural impact research. Environmental Research Letters, 2013, 8, 024018.	2.2	105
26	Comprehensiveness of conservation of useful wild plants: An operational indicator for biodiversity and sustainable development targets. Ecological Indicators, 2019, 98, 420-429.	2.6	102
27	Regional heterogeneity and gene flow maintain variance in a quantitative trait within populations of lodgepole pine. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1587-1593.	1.2	93
28	AN INTEGRATED ADAPTATION AND MITIGATION FRAMEWORK FOR DEVELOPING AGRICULTURAL RESEARCH: SYNERGIES AND TRADE-OFFS. Experimental Agriculture, 2011, 47, 185-203.	0.4	91
29	A global approach to crop wild relative conservation: securing the gene pool for food and agriculture. Kew Bulletin, 2010, 65, 561-576.	0.4	84
30	A global alliance declaring war on cassava viruses in Africa. Food Security, 2014, 6, 231-248.	2.4	81
31	A way forward on adaptation to climate change in Colombian agriculture: perspectives towards 2050. Climatic Change, 2012, 115, 611-628.	1.7	80
32	An Inventory of Crop Wild Relatives of the United States. Crop Science, 2013, 53, 1496-1508.	0.8	77
33	Use of GIS for Optimizing a Collecting Mission for a Rare Wild Pepper (Capsicum flexuosum Sendtn.) in Paraguay. Genetic Resources and Crop Evolution, 2005, 52, 671-682.	0.8	67
34	Reduction in nutritional quality and growing area suitability of common bean under climate change induced drought stress in Africa. Scientific Reports, 2018, 8, 16187.	1.6	67
35	Biogeography of Wild Arachis. Crop Science, 2003, 43, 1100-1108.	0.8	66
36	Climate change, agriculture and food security: a global partnership to link research and action for low-income agricultural producers and consumers. Current Opinion in Environmental Sustainability, 2012, 4, 128-133.	3.1	65

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37	The global divide in data-driven farming. Nature Sustainability, 2021, 4, 154-160.	11.5	65
38	The climate of cloud forests. Hydrological Processes, 2011, 25, 327-343.	1.1	59
39	GeoFarmer: A monitoring and feedback system for agricultural development projects. Computers and Electronics in Agriculture, 2019, 158, 109-121.	3.7	58
40	Assessment of threats to ecosystems in South America. Journal for Nature Conservation, 2010, 18, 180-188.	0.8	52
41	Drought impact on rainfed common bean production areas in Brazil. Agricultural and Forest Meteorology, 2016, 225, 57-74.	1.9	51
42	Variation and impact of drought-stress patterns across upland rice target population of environments in Brazil. Journal of Experimental Botany, 2015, 66, 3625-3638.	2.4	50
43	Climate change impact predictions on Pinus patula and Pinus tecunumanii populations in Mexico and Central America. Forest Ecology and Management, 2009, 257, 1566-1576.	1.4	48
44	Regional relationships between inherent coffee quality and growing environment for denomination of origin labels in NariÃ±o and Cauca, Colombia. Food Policy, 2011, 36, 783-794.	2.8	41
45	Distribution of the Genus Passiflora L. Diversity in Colombia and Its Potential as an Indicator for Biodiversity Management in the Coffee Growing Zone. Diversity, 2010, 2, 1158-1180.	0.7	36
46	Predicted Impact of Climate Change on Coffee Supply Chains. Climate Change Management, 2011, , 703-723.	0.6	36
47	From Observation to Information: Data-Driven Understanding of on Farm Yield Variation. PLoS ONE, 2016, 11, e0150015.	1.1	30
48	Analysis of Andean blackberry (Rubus glaucus) production models obtained by means of artificial neural networks exploiting information collected by small-scale growers in Colombia and publicly available meteorological data. Computers and Electronics in Agriculture, 2009, 69, 198-208.	3.7	26
49	A scalable scheme to implement data-driven agriculture for small-scale farmers. Global Food Security, 2019, 23, 256-266.	4.0	25
50	Perspective article: Actions to reconfigure food systems. Global Food Security, 2020, 26, 100432.	4.0	24
51	The nature and impact of climate change in the Challenge Program on Water and Food (CPWF) basins. Water International, 2011, 36, 96-124.	0.4	21
52	Interpretation of commercial production information: A case study of lulo (Solanum quitoense), an under-researched Andean fruit. Agricultural Systems, 2011, 104, 258-270.	3.2	21
53	Selection of Provenances to Adapt Tropical Pine Forestry to Climate Change on the Basis of Climate Analogs. Forests, 2013, 4, 155-178.	0.9	20
54	Analysis of threats to South American flora and its implications for conservation. Journal for Nature Conservation, 2012, 20, 337-348.	0.8	19

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55	Adaptation of tropical and subtropical pine plantation forestry to climate change: Realignment of Pinus patula and Pinus tecunumanii genotypes to 2020 planting site climates. Scandinavian Journal of Forest Research, 2009, 24, 483-493.	0.5	13
56	Foodomics: A Data-Driven Approach to Revolutionize Nutrition and Sustainable Diets. Frontiers in Nutrition, 2022, 9, 874312.	1.6	13
57	The Role of Geographic Analysis in Locating, Understanding, and Using Plant Genetic Diversity. Methods in Enzymology, 2005, 395, 279-298.	0.4	11
58	Advances in improving tolerance to waterlogging in Brachiaria grasses. Tropical Grasslands - Forrajes Tropicales, 2013, 1, 197.	0.1	9
59	Taxonomic identification of Amazonian tree crowns from aerial photography. Applied Vegetation Science, 2010, 13, 510-519.	0.9	7
60	Smallholders need access to big-data agronomy too. Nature, 2018, 555, 30-30.	13.7	4
61	Trade and its trade-offs in the food system. Nature Food, 2020, 1, 665-666.	6.2	3
62	Closing yield gaps in Colombian direct seeding rice systems: a stochastic frontier analysis. Agronomia Colombiana, 2020, 38, 110-119.	0.1	1