

Nigel Arnell

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.

64
papers

8,367
citations

40
h-index

69
g-index

69
ext. papers

9,468
ext. citations

8.6
avg, IF

6.53
L-index

#	Paper	IF	Citations
64	Multimodel assessment of water scarcity under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3245-50	11.5	978
63	Climate change and global water resources: SRES emissions and socio-economic scenarios. <i>Global Environmental Change</i> , 2004 , 14, 31-52	10.1	750
62	The implications of projected climate change for freshwater resources and their management. <i>Hydrological Sciences Journal</i> , 2008 , 53, 3-10	3.5	540
61	The effect of environmental change on human migration. <i>Global Environmental Change</i> , 2011 , 21, S3-S11	10.1	500
60	The impacts of climate change on river flood risk at the global scale. <i>Climatic Change</i> , 2016 , 134, 387-401	4.5	473
59	A climate-change risk analysis for world ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13116-20	11.5	468
58	Multimodel Estimate of the Global Terrestrial Water Balance: Setup and First Results. <i>Journal of Hydrometeorology</i> , 2011 , 12, 869-884	3.7	416
57	A global assessment of the impact of climate change on water scarcity. <i>Climatic Change</i> , 2016 , 134, 371-385	4.5	380
56	The impacts of climate change on river flow regimes at the global scale. <i>Journal of Hydrology</i> , 2013 , 486, 351-364	6	263
55	Relative impacts of human-induced climate change and natural climate variability. <i>Nature</i> , 1999 , 397, 688-691	50.4	233
54	Migration, immobility and displacement outcomes following extreme events. <i>Environmental Science and Policy</i> , 2013 , 27, S32-S43	6.2	209
53	First look at changes in flood hazard in the Inter-Sectoral Impact Model Intercomparison Project ensemble. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3257-61	11.5	203
52	A comparative analysis of projected impacts of climate change on river runoff from global and catchment-scale hydrological models. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 279-294	5.5	188
51	A proposal for a new scenario framework to support research and assessment in different climate research communities. <i>Global Environmental Change</i> , 2012 , 22, 21-35	10.1	182
50	The global-scale impacts of climate change on water resources and flooding under new climate and socio-economic scenarios. <i>Climatic Change</i> , 2014 , 122, 127-140	4.5	171
49	Relative effects of multi-decadal climatic variability and changes in the mean and variability of climate due to global warming: future streamflows in Britain. <i>Journal of Hydrology</i> , 2003 , 270, 195-213	6	155
48	Adapting to climate change: Public water supply in England and Wales. <i>Climatic Change</i> , 2006 , 78, 227-255	5.5	130

47	A new scenario framework for climate change research: background, process, and future directions. <i>Climatic Change</i> , 2014 , 122, 363-372	4.5	126
46	The implications of climate policy for the impacts of climate change on global water resources. <i>Global Environmental Change</i> , 2011 , 21, 592-603	10.1	126
45	Simulating current global river runoff with a global hydrological model: model revisions, validation, and sensitivity analysis. <i>Hydrological Processes</i> , 2011 , 25, 1129-1145	3.3	112
44	Climate Change and Water Resources in Britain. <i>Climatic Change</i> , 1998 , 39, 83-110	4.5	105
43	Factors controlling the effects of climate change on river flow regimes in a humid temperate environment. <i>Journal of Hydrology</i> , 1992 , 132, 321-342	6	99
42	Climate change scenarios from a regional climate model: Estimating change in runoff in southern Africa. <i>Journal of Geophysical Research</i> , 2003 , 108,		92
41	The Consequences of CO2 Stabilisation for the Impacts of Climate Change. <i>Climatic Change</i> , 2002 , 53, 413-446	4.5	81
40	A global assessment of the effects of climate policy on the impacts of climate change. <i>Nature Climate Change</i> , 2013 , 3, 512-519	21.4	76
39	The impacts of climate change across the globe: A multi-sectoral assessment. <i>Climatic Change</i> , 2016 , 134, 457-474	4.5	72
38	The use of scenarios as the basis for combined assessment of climate change mitigation and adaptation. <i>Global Environmental Change</i> , 2011 , 21, 575-591	10.1	72
37	Uncertainty in the relationship between climate forcing and hydrological response in UK catchments. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 897-912	5.5	70
36	Focus on environmental risks and migration: causes and consequences. <i>Environmental Research Letters</i> , 2015 , 10, 060201	6.2	67
35	Uncertainty in climate change impacts on basin-scale freshwater resources [Preface to the special issue: the QUEST-GSI methodology and synthesis of results. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 1035-1046	5.5	67
34	Global and regional impacts of climate change at different levels of global temperature increase. <i>Climatic Change</i> , 2019 , 155, 377-391	4.5	64
33	The socioeconomics of food crop production and climate change vulnerability: a global scale quantitative analysis of how grain crops are sensitive to drought. <i>Food Security</i> , 2012 , 4, 163-179	6.7	63
32	Global hydrology modelling and uncertainty: running multiple ensembles with a campus grid. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 4005-21	3	61
31	Adapting to climate change: an evolving research programme. <i>Climatic Change</i> , 2010 , 100, 107-111	4.5	55
30	CLIMATE-CHANGE IMPACTS ON RIVER FLOWS IN BRITAIN: THE UKCIPO2 SCENARIOS. <i>Water and Environment Journal</i> , 2004 , 18, 112-117	1.7	55

29	The implications of climate change for the water environment in England. <i>Progress in Physical Geography</i> , 2015 , 39, 93-120	3.5	45
28	Implications of climate change for freshwater inflows to the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2005 , 110,		45
27	Eliciting information from experts on the likelihood of rapid climate change. <i>Risk Analysis</i> , 2005 , 25, 1419-31	3.31	44
26	Global-scale climate impact functions: the relationship between climate forcing and impact. <i>Climatic Change</i> , 2016 , 134, 475-487	4.5	30
25	Assessing inter-sectoral climate change risks: the role of ISIMIP. <i>Environmental Research Letters</i> , 2017 , 12, 010301	6.2	30
24	Impacts of Climatic Change on River Flow Regimes in the UK. <i>Water and Environment Journal</i> , 1992 , 6, 432-442	1.7	30
23	A method for incorporating climate variability in climate change impact assessments: Sensitivity of river flows in the Eden catchment to precipitation scenarios. <i>Climatic Change</i> , 2012 , 113, 803-823	4.5	28
22	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3493-3515	6.3	28
21	Migration, Environmental Change, and the Challenges of Governance. <i>Environment and Planning C: Urban Analytics and City Science</i> , 2012 , 30, 951-967		26
20	Incorporating Climate Change Into Water Resources Planning in England and Wales ¹ . <i>Journal of the American Water Resources Association</i> , 2011 , 47, 541-549	2.1	25
19	The global and regional impacts of climate change under representative concentration pathway forcings and shared socioeconomic pathway socioeconomic scenarios. <i>Environmental Research Letters</i> , 2019 , 14, 084046	6.2	24
18	Climate impact research: beyond patchwork. <i>Earth System Dynamics</i> , 2014 , 5, 399-408	4.8	24
17	The effect of climate policy on the impacts of climate change on river flows in the UK. <i>Journal of Hydrology</i> , 2014 , 510, 424-435	6	22
16	Assessing the impacts of climate change on river flows in England using the UKCP09 climate change projections. <i>Journal of Hydrology</i> , 2014 , 519, 1723-1738	6	22
15	The impacts avoided with a 1.5 °C climate target: a global and regional assessment. <i>Climatic Change</i> , 2018 , 147, 61-76	4.5	18
14	Thresholds and Response to Climate Change Forcing: The Water Sector. <i>Climatic Change</i> , 2000 , 46, 305-316	1.6	18
13	The AVOID programme's new simulations of the global benefits of stringent climate change mitigation. <i>Climatic Change</i> , 2013 , 120, 55-70	4.5	17
12	The global-scale impacts of climate change: the QUEST-GSI project. <i>Climatic Change</i> , 2016 , 134, 343-352	4.5	6

11	The effect of climate change on indicators of fire danger in the UK. <i>Environmental Research Letters</i> , 2021 , 16, 044027	6.2	5
10	The effect of climate change on agro-climatic indicators in the UK. <i>Climatic Change</i> , 2021 , 165, 1	4.5	3
9	Avoiding dangerous climate: results from the AVOID2 programme. <i>Weather</i> , 2017 , 72, 340-345	0.9	2
8	Near-term transition and longer-term physical climate risks of greenhouse gas emissions pathways. <i>Nature Climate Change</i> , 2022 , 12, 88-96	21.4	2
7	reply Climate variability and crop yields in Europe. <i>Nature</i> , 1999 , 400, 724-724	50.4	1
6	Climate impacts research: beyond patchwork		1
5	The impact of climate change on policy-relevant indicators of temperature extremes in the United Kingdom. <i>Climate Resilience and Sustainability</i> ,		1
4	Indicators of climate risk in the UK at different levels of warming. <i>Environmental Research Communications</i> , 2021 , 3, 095005	3.1	1
3	Storylines of UK drought based on the 2010-2012 event. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 1755-1777	5.5	1
2	Tracking the methodological evolution of climate change projections for UK river flows. <i>Progress in Physical Geography</i> , 030913332210792	3.5	1
1	No room for complacency over climate. <i>Nature</i> , 1998 , 396, 509-509	50.4	