

Hans de Moel

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.

68
papers

4,729
citations

34
h-index

68
g-index

69
ext. papers

5,688
ext. citations

5.9
avg, IF

5.87
L-index

#	Paper	IF	Citations
68	Lost food, wasted resources: global food supply chain losses and their impacts on freshwater, cropland, and fertiliser use. <i>Science of the Total Environment</i> , 2012 , 438, 477-89	10.2	674
67	Flood maps in Europe [Methods, availability and use. <i>Natural Hazards and Earth System Sciences</i> , 2009 , 9, 289-301	3.9	314
66	Climate adaptation. Evaluating flood resilience strategies for coastal megacities. <i>Science</i> , 2014 , 344, 473-5	33.3	287
65	Is physical water scarcity a new phenomenon? Global assessment of water shortage over the last two millennia. <i>Environmental Research Letters</i> , 2010 , 5, 034006	6.2	275
64	Effect of uncertainty in land use, damage models and inundation depth on flood damage estimates. <i>Natural Hazards</i> , 2011 , 58, 407-425	3	248
63	Future changes in Mekong River hydrology: impact of climate change and reservoir operation on discharge. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 4603-4619	5.5	194
62	How close do we live to water? A global analysis of population distance to freshwater bodies. <i>PLoS ONE</i> , 2011 , 6, e20578	3.7	149
61	Flood risk assessments at different spatial scales. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 865-890	3.9	148
60	Future flood risk estimates along the river Rhine. <i>Natural Hazards and Earth System Sciences</i> , 2011 , 11, 459-473	3.9	145
59	FLOPROS: an evolving global database of flood protection standards. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1049-1061	3.9	125
58	Development of flood exposure in the Netherlands during the 20th and 21st century. <i>Global Environmental Change</i> , 2011 , 21, 620-627	10.1	122
57	Over the hills and further away from coast: global geospatial patterns of human and environment over the 20th-21st centuries. <i>Environmental Research Letters</i> , 2016 , 11, 034010	6.2	99
56	How are flood risk estimates affected by the choice of return-periods?. <i>Natural Hazards and Earth System Sciences</i> , 2011 , 11, 3181-3195	3.9	99
55	Integrated Direct and Indirect Flood Risk Modeling: Development and Sensitivity Analysis. <i>Risk Analysis</i> , 2015 , 35, 882-900	3.9	96
54	Adaptive flood risk management planning based on a comprehensive flood risk conceptualisation. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 845-864	3.9	92
53	A review of damage-reducing measures to manage fluvial flood risks in a changing climate. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 967-989	3.9	85
52	Changing mechanism of global water scarcity events: Impacts of socioeconomic changes and inter-annual hydro-climatic variability. <i>Global Environmental Change</i> , 2015 , 32, 18-29	10.1	84

51	Low-probability flood risk modeling for New York City. <i>Risk Analysis</i> , 2013 , 33, 772-88	3.9	84
50	Explaining differences in flood management approaches in Europe and in the USA - a comparative analysis. <i>Journal of Flood Risk Management</i> , 2017 , 10, 436-445	3.1	78
49	Planktic foraminiferal shell thinning in the Arabian Sea due to anthropogenic ocean acidification?. <i>Biogeosciences</i> , 2009 , 6, 1917-1925	4.6	78
48	Human deforestation outweighs future climate change impacts of sedimentation on coral reefs. <i>Nature Communications</i> , 2013 , 4, 1986	17.4	71
47	Cost estimates for flood resilience and protection strategies in New York City. <i>Annals of the New York Academy of Sciences</i> , 2013 , 1294, 1-104	6.5	69
46	Uncertainty in flood damage estimates and its potential effect on investment decisions. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1-14	3.9	68
45	Integrating Household Risk Mitigation Behavior in Flood Risk Analysis: An Agent-Based Model Approach. <i>Risk Analysis</i> , 2017 , 37, 1977-1992	3.9	67
44	Uncertainty and sensitivity analysis of coastal flood damage estimates in the west of the Netherlands. <i>Natural Hazards and Earth System Sciences</i> , 2012 , 12, 1045-1058	3.9	65
43	How reliable are projections of future flood damage?. <i>Natural Hazards and Earth System Sciences</i> , 2011 , 11, 3293-3306	3.9	65
42	The failed-levee effect: Do societies learn from flood disasters?. <i>Natural Hazards</i> , 2015 , 76, 373-388	3	55
41	Linking coral river runoff proxies with climate variability, hydrology and land-use in Madagascar catchments. <i>Marine Pollution Bulletin</i> , 2012 , 64, 2047-59	6.7	50
40	TAGGS: Grouping Tweets to Improve Global Geoparsing for Disaster Response. <i>Journal of Geovisualization and Spatial Analysis</i> , 2018 , 2, 1	3.5	44
39	Climate change: a global problem requiring global action. <i>Journal of Integrative Environmental Sciences</i> , 2007 , 4, 139-148		44
38	A global database of historic and real-time flood events based on social media. <i>Scientific Data</i> , 2019 , 6, 311	8.2	41
37	Assessment of the effectiveness of flood adaptation strategies for HCMC. <i>Natural Hazards and Earth System Sciences</i> , 2014 , 14, 1441-1457	3.9	38
36	Adoption of Individual Flood Damage Mitigation Measures in New York City: An Extension of Protection Motivation Theory. <i>Risk Analysis</i> , 2019 , 39, 2143-2159	3.9	37
35	Evaluating the effect of flood damage-reducing measures: a case study of the unembanked area of Rotterdam, the Netherlands. <i>Regional Environmental Change</i> , 2013 , 14, 895	4.3	36
34	Global modeling of tropical cyclone storm surges using high-resolution forecasts. <i>Climate Dynamics</i> , 2019 , 52, 5031-5044	4.2	34

33	Verification of a coupled climate-hydrological model against Holocene palaeohydrological records. <i>Global and Planetary Change</i> , 2007 , 57, 283-300	4.2	33
32	Simulating long-term Caspian Sea level changes: The impact of Holocene and future climate conditions. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 685-693	5.3	31
31	Uncertainty and sensitivity of flood risk calculations for a dike ring in the south of the Netherlands. <i>Science of the Total Environment</i> , 2014 , 473-474, 224-34	10.2	30
30	Global-scale benefit-cost analysis of coastal flood adaptation to different flood risk drivers using structural measures. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 1025-1044	3.9	29
29	Generation of a global synthetic tropical cyclone hazard dataset using STORM. <i>Scientific Data</i> , 2020 , 7, 40	8.2	29
28	Effect of spatial adaptation measures on flood risk: study of coastal floods in Belgium. <i>Regional Environmental Change</i> , 2014 , 14, 413-425	4.3	27
27	Political affiliation affects adaptation to climate risks: Evidence from New York City. <i>Climatic Change</i> , 2016 , 138, 353-360	4.5	24
26	Future extreme precipitation intensities based on a historic event. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 3777-3788	5.5	23
25	Robustness of Sand Storage Dams under Climate Change. <i>Vadose Zone Journal</i> , 2007 , 6, 572-580	2.7	23
24	Pathways to resilience: adapting to sea level rise in Los Angeles. <i>Annals of the New York Academy of Sciences</i> , 2018 , 1427, 1-90	6.5	21
23	Climate change and natural disasters: Government mitigation activities and public property demand response. <i>Land Use Policy</i> , 2019 , 82, 436-443	5.6	20
22	Preface: Flood-risk analysis and integrated management. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1005-1010	3.9	19
21	Economic damages from Hurricane Sandy attributable to sea level rise caused by anthropogenic climate change. <i>Nature Communications</i> , 2021 , 12, 2720	17.4	18
20	Enhancement of large-scale flood risk assessments using building-material-based vulnerability curves for an object-based approach in urban and rural areas. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 1703-1722	3.9	17
19	An economic evaluation of adaptation pathways in coastal mega cities: An illustration for Los Angeles. <i>Science of the Total Environment</i> , 2019 , 678, 647-659	10.2	17
18	Improving the classification of flood tweets with contextual hydrological information in a multimodal neural network. <i>Computers and Geosciences</i> , 2020 , 140, 104485	4.5	14
17	A micro-scale cost-benefit analysis of building-level flood risk adaptation measures in Los Angeles. <i>Water Resources and Economics</i> , 2020 , 32, 100147	2	14
16	The influence of antecedent conditions on flood risk in sub-Saharan Africa. <i>Natural Hazards and Earth System Sciences</i> , 2018 , 18, 271-285	3.9	13

15	A framework for comparing permanent and forecast-based flood risk-reduction strategies. <i>Science of the Total Environment</i> , 2020 , 720, 137572	10.2	10
14	Urban transformation with TURAS open innovations; opportunities for transitioning through transdisciplinarity. <i>Current Opinion in Environmental Sustainability</i> , 2016 , 22, 57-62	7.2	10
13	Insights into Flood Risk Misperceptions of Homeowners in the Dutch River Delta. <i>Risk Analysis</i> , 2020 , 40, 1450-1468	3.9	9
12	The Asynergies of Structural Disaster Risk Reduction Measures: Comparing Floods and Earthquakes. <i>Earth's Future</i> , 2021 , 9, e2020EF001531	7.9	6
11	Data schemas for multiple hazards, exposure and vulnerability. <i>Disaster Prevention and Management</i> , 2019 , 28, 752-763	1.5	5
10	Improved Transferability of Data-Driven Damage Models Through Sample Selection Bias Correction. <i>Risk Analysis</i> , 2021 , 41, 37-55	3.9	5
9	Estimation of global tropical cyclone wind speed probabilities using the STORM dataset. <i>Scientific Data</i> , 2020 , 7, 377	8.2	4
8	Modeling urban development and its exposure to river flood risk in Southeast Asia. <i>Computers, Environment and Urban Systems</i> , 2021 , 87, 101620	5.9	4
7	Adequately reflecting the severity of tropical cyclones using the new Tropical Cyclone Severity Scale. <i>Environmental Research Letters</i> , 2021 , 16, 014048	6.2	4
6	Blue-green roofs with forecast-based operation to reduce the impact of weather extremes. <i>Journal of Environmental Management</i> , 2022 , 301, 113750	7.9	4
5	A globally consistent local-scale assessment of future tropical cyclone risk.. <i>Science Advances</i> , 2022 , 8, eabm8438	14.3	3
4	What Will the Weather Do? Forecasting Flood Losses Based on Oscillation Indices. <i>Earth's Future</i> , 2020 , 8, e2019EF001450	7.9	2
3	Using rapid damage observations for Bayesian updating of hurricane vulnerability functions: A case study of Hurricane Dorian using social media. <i>International Journal of Disaster Risk Reduction</i> , 2022 , 72, 102839	4.5	1
2	Improving flood damage assessments in data-scarce areas by retrieval of building characteristics through UAV image segmentation and machine learning – a case study of the 2019 floods in southern Malawi. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 3199-3218	3.9	0
1	Informing River Basin Management on Flood and Drought Risks Taking Future Uncertainties into Account. <i>Handbook of Environmental Chemistry</i> , 2014 , 197-208	0.8	