Wouter Botzen

List of Publications by Citations

136 papers	6,541 citations	41 h-index	79 g-index
143 ext. papers	8,049 ext. citations	5.6 avg, IF	6.62 L-index

#	Paper	IF	Citations
136	A review of risk perceptions and other factors that influence flood mitigation behavior. *Risk Analysis*, **2012**, 32, 1481-95	3.9	567
135	Increasing stress on disaster-risk finance due to large floods. *Nature Climate Change*, **2014**, 4, 264-268	21.4	320
134	Climate adaptation. Evaluating flood resilience strategies for coastal megacities. *Science*, **2014**, 344, 473-5	33.3	287
133	Dependence of flood risk perceptions on socioeconomic and objective risk factors. *Water Resources Research*, **2009**, 45,	5.4	266
132	Willingness of homeowners to mitigate climate risk through insurance. *Ecological Economics*, **2009**, 68, 2265-2277	5.6	265
131	Combining hazard, exposure and social vulnerability to provide lessons for flood risk management. *Environmental Science and Policy*, **2015**, 47, 42-52	6.2	251
130	Factors of influence on flood damage mitigation behaviour by households. *Environmental Science and Policy*, **2014**, 40, 69-77	6.2	220
129	Heat stress causes substantial labour productivity loss in Australia. *Nature Climate Change*, **2015**, 5, 647-651	21.4	193
128	Detailed insights into the influence of flood-coping appraisals on mitigation behaviour. *Global Environmental Change*, **2013**, 23, 1327-1338	10.1	187
127	Integrating human behaviour dynamics into flood disaster risk assessment. *Nature Climate Change*, **2018**, 8, 193-199	21.4	186
126	Risk attitudes to low-probability climate change risks: WTP for flood insurance. *Journal of Economic Behavior and Organization*, **2012**, 82, 151-166	1.6	164
125	A global framework for future costs and benefits of river-flood protection in urban areas. *Nature Climate Change*, **2017**, 7, 642-646	21.4	163
124	Insurance against climate change and flooding in the Netherlands: present, future, and comparison with other countries. *Risk Analysis*, **2008**, 28, 413-26	3.9	148
123	A global economic assessment of city policies to reduce climate change impacts. *Nature Climate Change*, **2017**, 7, 403-406	21.4	133
122	A lower bound to the social cost of CO2 emissions. *Nature Climate Change*, **2014**, 4, 253-258	21.4	105
121	Long-term development and effectiveness of private flood mitigation measures: an analysis for the German part of the river Rhine. *Natural Hazards and Earth System Sciences*, **2012**, 12, 3507-3518	3.9	100
120	MONETARY VALUATION OF INSURANCE AGAINST FLOOD RISK UNDER CLIMATE CHANGE*. *International Economic Review*, **2012**, 53, 1005-1026	1.2	92

119	The effectiveness of flood risk communication strategies and the influence of social networks—Insights from an agent-based model. *Environmental Science and Policy*, **2016**, 60, 44-52	6.2	89
118	The Economic Impacts of Natural Disasters: A Review of Models and Empirical Studies. *Review of Environmental Economics and Policy*, **2019**, 13, 167-188	6	88
117	Effectiveness of flood damage mitigation measures: Empirical evidence from French flood disasters. *Global Environmental Change*, **2015**, 31, 74-84	10.1	88
116	Individual preferences for reducing flood risk to near zero through elevation. *Mitigation and Adaptation Strategies for Global Change*, **2013**, 18, 229-244	3.9	86
115	Climate change impacts on pricing long-term flood insurance: A comprehensive study for the Netherlands. *Global Environmental Change*, **2011**, 21, 1045-1060	10.1	85
114	Low-probability flood risk modeling for New York City. *Risk Analysis*, **2013**, 33, 772-88	3.9	84
113	Monetary valuation of the social cost of CO 2 emissions: A critical survey. *Ecological Economics*, **2015**, 114, 33-46	5.6	82
112	Climate change and increased risk for the insurance sector: a global perspective and an assessment for the Netherlands. *Natural Hazards*, **2010**, 52, 577-598	3	80
111	Explaining differences in flood management approaches in Europe and in the USA - a comparative analysis. *Journal of Flood Risk Management*, **2017**, 10, 436-445	3.1	78
110	Cumulative CO2 emissions: shifting international responsibilities for climate debt. *Climate Policy*, **2008**, 8, 569-576	5.3	73
109	Economic losses from US hurricanes consistent with an influence from climate change. *Nature Geoscience*, **2015**, 8, 880-884	18.3	69
108	Cost estimates for flood resilience and protection strategies in New York City. *Annals of the New York Academy of Sciences*, **2013**, 1294, 1-104	6.5	69
107	Dealing with Uncertainty in Flood Management Through Diversification. *Ecology and Society*, **2008**, 13,	4.1	69
106	Integrating Household Risk Mitigation Behavior in Flood Risk Analysis: An Agent-Based Model Approach. *Risk Analysis*, **2017**, 37, 1977-1992	3.9	67
105	Insights into Flood-Coping Appraisals of Protection Motivation Theory: Empirical Evidence from Germany and France. *Risk Analysis*, **2018**, 38, 1239-1257	3.9	65
104	Reflections on the current debate on how to link flood insurance and disaster risk reduction in the European Union. *Natural Hazards*, **2015**, 79, 1451-1479	3	64
103	Incentivising flood risk adaptation through risk based insurance premiums: Trade-offs between affordability and risk reduction. *Ecological Economics*, **2016**, 125, 1-13	5.6	56
102	Climate change and hailstorm damage: Empirical evidence and implications for agriculture and insurance. *Resources and Energy Economics*, **2010**, 32, 341-362	3.2	56

101	Bounded Rationality, Climate Risks, and Insurance: Is There a Market for Natural Disasters?. *Land Economics*, **2009**, 85, 265-278	1.6	52
100	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection. *Hydrology and Earth System Sciences*, **2018**, 22, 5629-5637	5.5	50
99	Evaluating the effectiveness of flood damage mitigation measures by the application of propensity score matching. *Natural Hazards and Earth System Sciences*, **2014**, 14, 1731-1747	3.9	48
98	Managing natural disaster risks in a changing climate. *Environmental Hazards*, **2009**, 8, 209-225	4.2	47
97	Flood-resilient waterfront development in New York City: bridging flood insurance, building codes, and flood zoning. *Annals of the New York Academy of Sciences*, **2011**, 1227, 1-82	6.5	45
96	Influence of flood risk characteristics on flood insurance demand: a comparison between Germany and the Netherlands. *Natural Hazards and Earth System Sciences*, **2013**, 13, 1691-1705	3.9	44
95	Moral Hazard in Natural Disaster Insurance Markets: Empirical Evidence from Germany and the United States. *Land Economics*, **2017**, 93, 179-208	1.6	37
94	Advancing disaster policies by integrating dynamic adaptive behaviour in risk assessments using an agent-based modelling approach. *Environmental Research Letters*, **2019**, 14, 044022	6.2	37
93	Adoption of Individual Flood Damage Mitigation Measures in New York City: An Extension of Protection Motivation Theory. *Risk Analysis*, **2019**, 39, 2143-2159	3.9	37
92	Influence of climate change and socio-economic development on catastrophe insurance: a case study of flood risk scenarios in the Netherlands. *Regional Environmental Change*, **2015**, 15, 1717-1729	4.3	37
91	Stimulating flood damage mitigation through insurance: an assessment of the French CatNat system. *Environmental Hazards*, **2013**, 12, 258-277	4.2	37
90	Lessons for climate policy from behavioral biases towards COVID-19 and climate change risks. *World Development*, **2021**, 137, 105214	5.5	37
89	Accounting for risk aversion, income distribution and social welfare in cost-benefit analysis for flood risk management. *Wiley Interdisciplinary Reviews: Climate Change*, **2017**, 8, e446	8.4	34
88	A global review of the impact of basis risk on the functioning of and demand for index insurance. *International Journal of Disaster Risk Reduction*, **2018**, 28, 845-853	4.5	34
87	Framing of risk and preferences for annual and multi-year flood insurance. *Journal of Economic Psychology*, **2013**, 39, 357-375	2.5	34
86	Do flood risk perceptions provide useful insights for flood risk management? Findings from central Vietnam. *Journal of Flood Risk Management*, **2012**, 5, 295-302	3.1	34
85	Specifications of Social Welfare in Economic Studies of Climate Policy: Overview of Criteria and Related Policy Insights. *Environmental and Resource Economics*, **2014**, 58, 1-33	4.4	32
84	HOW SENSITIVE ARE US HURRICANE DAMAGES TO CLIMATE? COMMENT ON A PAPER BY W. D. NORDHAUS. *Climate Change Economics*, **2011**, 02, 1-7	0.9	30

83	The safe development paradox: An agent-based model for flood risk under climate change in the European Union. *Global Environmental Change*, **2020**, 60, 102009	10.1	30
82	How sensitive is Nordhaus to Weitzman? Climate policy in DICE with an alternative damage function. *Economics Letters*, **2012**, 117, 372-374	1.3	29
81	Managing Extreme Climate Change Risks through Insurance **2013**,		27
80	Flood insurance arrangements in the European Union for future flood risk under climate and socioeconomic change. *Global Environmental Change*, **2019**, 58, 101966	10.1	26
79	More Than Fear Induction: Toward an Understanding of People's Motivation to Be Well-Prepared for Emergencies in Flood-Prone Areas. *Risk Analysis*, **2015**, 35, 518-35	3.9	25
78	Improving flood risk communication by focusing on prevention-focused motivation. *Risk Analysis*, **2014**, 34, 309-22	3.9	25
77	You have been framed! How antecedents of information need mediate the effects of risk communication messages. *Risk Analysis*, **2014**, 34, 1506-20	3.9	24
76	Political affiliation affects adaptation to climate risks: Evidence from New York City. *Climatic Change*, **2016**, 138, 353-360	4.5	24
75	Adoption of flood preparedness actions: A household level study in rural communities in Tabasco, Mexico. *International Journal of Disaster Risk Reduction*, **2017**, 24, 428-438	4.5	22
74	Economic valuation of green and blue nature in cities: A meta-analysis. *Ecological Economics*, **2020**, 169, 106480	5.6	21
73	Pathways to resilience: adapting to sea level rise in Los Angeles. *Annals of the New York Academy of Sciences*, **2018**, 1427, 1-90	6.5	21
72	Climate change induced socio-economic tipping points: review and stakeholder consultation for policy relevant research. *Environmental Research Letters*, **2020**, 15, 023001	6.2	20
71	Protecting against disaster risks: Why insurance and prevention may be complements. *Journal of Risk and Uncertainty*, **2019**, 59, 151-169	3.1	20
70	Impacts of Flooding and Flood Preparedness on Subjective Well-Being: A Monetisation of the Tangible and Intangible Impacts. *Journal of Happiness Studies*, **2019**, 20, 665-682	3.7	20
69	Economic evaluation of climate risk adaptation strategies: Cost-benefit analysis of flood protection in Tabasco, Mexico. *Atmosfera*, **2017**, 30, 101-120	2.5	19
68	Risk allocation in a public-private catastrophe insurance system: an actuarial analysis of deductibles, stop-loss, and premiums. *Journal of Flood Risk Management*, **2015**, 8, 116-134	3.1	19
67	Estimation of insurance premiums for coverage against natural disaster risk: an application of Bayesian Inference. *Natural Hazards and Earth System Sciences*, **2013**, 13, 737-754	3.9	19
66	Low-carbon transition is improbable without carbon pricing. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 23219-23220	11.5	18

65	An economic evaluation of adaptation pathways in coastal mega cities: An illustration for Los Angeles. *Science of the Total Environment*, **2019**, 678, 647-659	10.2	17
64	Determinants of Probability Neglect and Risk Attitudes for Disaster Risk: An Online Experimental Study of Flood Insurance Demand among Homeowners. *Risk Analysis*, **2019**, 39, 2514-2527	3.9	16
63	Did the ECB respond to the stock market before the crisis?. *Journal of Policy Modeling*, **2010**, 32, 303-322	2.4	16
62	Perceptions of Corporate Cyber Risks and Insurance Decision-Making. *Geneva Papers on Risk and Insurance: Issues and Practice*, **2018**, 43, 239-274	1.2	15
61	Coastal and river flood risk analyses for guiding economically optimal flood adaptation policies: a country-scale study for Mexico. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376,	3	15
60	Communicating adaptation with emotions: the role of intense experiences in raising concern about extreme weather.. *Ecology and Society*, **2014**, 19,	4.1	15
59	Response to "The necessity for longitudinal studies in risk perception research". *Risk Analysis*, **2013**, 33, 760-2	3.9	15
58	Property price effects of green interventions in cities: A meta-analysis and implications for gentrification. *Environmental Science and Policy*, **2020**, 112, 293-304	6.2	15
57	Future Public Sector Flood Risk and Risk Sharing Arrangements: An Assessment for Austria. *Ecological Economics*, **2019**, 156, 153-163	5.6	15
56	Meeting goals of sustainability policy: CO2 emission reduction, cost-effectiveness and societal acceptance. An analysis of the proposal to phase-out coal in the Netherlands. *Energy Policy*, **2020**, 138, 111210	7.2	14
55	A micro-scale cost-benefit analysis of building-level flood risk adaptation measures in Los Angeles. *Water Resources and Economics*, **2020**, 32, 100147	2	14
54	Global economic impacts of climate variability and change during the 20th century. *PLoS ONE*, **2017**, 12, e0172201	3.7	13
53	Behavioral motivations for self-insurance under different disaster risk insurance schemes. *Journal of Economic Behavior and Organization*, **2020**, 180, 967-991	1.6	13
52	Long Term Adaptation to Heat Stress: Shifts in the Minimum Mortality Temperature in the Netherlands. *Frontiers in Physiology*, **2020**, 11, 225	4.6	13
51	Integrated Disaster Risk Management and Adaptation. *Climate Risk Management, Policy and Governance*, **2019**, 287-315	2.7	11
50	A dual-track transition to global carbon pricing. *Climate Policy*, **2020**, 20, 1057-1069	5.3	11
49	Benefits and Limitations of Real Options Analysis for the Practice of River Flood Risk Management. *Water Resources Research*, **2018**, 54, 3018-3036	5.4	10
48	Global impact of a climate treaty if the Human Development Index replaces GDP as a welfare proxy. *Climate Policy*, **2018**, 18, 76-85	5.3	10

47	Managing exposure to flooding in New York City. *Nature Climate Change*, **2012**, 2, 377-377	21.4	10
46	Parallel Tracks Towards a Global Treaty on Carbon Pricing. *SSRN Electronic Journal*, **2018**,	1	10
45	Insights into Flood Risk Misperceptions of Homeowners in the Dutch River Delta. *Risk Analysis*, **2020**, 40, 1450-1468	3.9	9
44	Impacts of Climate Change and Remote Natural Catastrophes on EU Flood Insurance Markets: An Analysis of Soft and Hard Reinsurance Markets for Flood Coverage. *Atmosphere*, **2020**, 11, 146	2.7	9
43	Risk reduction in compulsory disaster insurance: Experimental evidence on moral hazard and financial incentives. *Journal of Behavioral and Experimental Economics*, **2020**, 84, 101500	1.5	9
42	Flood risk and climate change in the Rotterdam area, The Netherlands: enhancing citizens' climate risk perceptions and prevention responses despite skepticism. *Regional Environmental Change*, **2016**, 16, 1613-1622	4.3	8
41	Cost–benefit analysis of flood-zoning policies: A review of current practice. *Wiley Interdisciplinary Reviews: Water*, **2019**, 6, e1387	5.7	8
40	Flood insurance demand and probability weighting: The influences of regret, worry, locus of control and the threshold of concern heuristic. *Water Resources and Economics*, **2020**, 30, 100144	2	7
39	ECONOMIC EXPERIMENTS, HYPOTHETICAL SURVEYS AND MARKET DATA STUDIES OF INSURANCE DEMAND AGAINST LOW-PROBABILITY/HIGH-IMPACT RISKS: A SYSTEMATIC REVIEW OF DESIGNS, THEORETICAL INSIGHTS AND DETERMINANTS OF DEMAND. *Journal of Economic Surveys*, **2019**, 33, 1493-1530	3.8	6
38	Climate Adaptation and Flood Risk in Coastal Cities		6
37	Social vulnerability in cost-benefit analysis for flood risk management. *Environment and Development Economics*, **2020**, 25, 115-134	1.8	6
36	Portfolios of adaptation investments in water management. *Mitigation and Adaptation Strategies for Global Change*, **2015**, 20, 1247-1265	3.9	5
35	Geographical scoping and willingness-to-pay for nature protection. *Journal of Integrative Environmental Sciences*, **2018**, 15, 41-58	3	5
34	Extending integrated assessment models? damage functions to include adaptation and dynamic sensitivity. *Environmental Modelling and Software*, **2019**, 121, 104504	5.2	5
33	CLIMRISK-RIVER: Accounting for local river flood risk in estimating the economic cost of climate change. *Environmental Modelling and Software*, **2020**, 132, 104784	5.2	5
32	Economic valuation of climate change–induced mortality: age dependent cold and heat mortality in the Netherlands. *Climatic Change*, **2020**, 162, 545-562	4.5	5
31	Brief communication "Hurricane Irene: a wake-up call for New York City?". *Natural Hazards and Earth System Sciences*, **2012**, 12, 1837-1840	3.9	4
30	Regional Inequalities in Flood Insurance Affordability and Uptake under Climate Change. *Sustainability*, **2020**, 12, 8734	3.6	4

29	Default options and insurance demand. *Journal of Economic Behavior and Organization*, **2021**, 183, 39-56	1.6	4
28	All by myself? Testing descriptive social norm-nudges to increase flood preparedness among homeowners. *Behavioural Public Policy*,1-33	2.7	4
27	Economic impacts and risks of climate change under failure and success of the Paris Agreement. *Annals of the New York Academy of Sciences*, **2021**, 1504, 95-115	6.5	4
26	Economic Assessment of Mitigating Damage of Flood Events: Cost–Benefit Analysis of Flood-Proofing Commercial Buildings in Umbria, Italy. *Geneva Papers on Risk and Insurance: Issues and Practice*, **2017**, 42, 585-608	1.2	3
25	Drivers and dimensions of flood risk perceptions: Revealing an implicit selection bias and lessons for communication policies. *Global Environmental Change*, **2022**, 73, 102465	10.1	3
24	Individual hurricane evacuation intentions during the COVID-19 pandemic: insights for risk communication and emergency management policies. *Natural Hazards*, **2021**, 1-16	3	3
23	Temperature Effects on Electricity and Gas Consumption: Empirical Evidence from Mexico and Projections under Future Climate Conditions. *Sustainability*, **2021**, 13, 305	3.6	3
22	Climate Adaptation Cost for Flood Risk Management in the Netherlands **2012**,		3
21	An experimental study of charity hazard: The effect of risky and ambiguous government compensation on flood insurance demand. *Journal of Risk and Uncertainty*, **2021**, 63, 275-318	3.1	3
20	Weather Indicators for Insured Hailstorm Damage to Motor Vehicles and Potential Climate Change Impacts. *Geneva Papers on Risk and Insurance: Issues and Practice*, **2016**, 41, 512-527	1.2	2
19	Reply to 'Statistics of flood risk'. *Nature Climate Change*, **2014**, 4, 844-845	21.4	2
18	Charity hazard and the flood insurance protection gap: An EU scale assessment under climate change. *Ecological Economics*, **2022**, 193, 107289	5.6	2
17	Evaluating the effectiveness of flood damage mitigation measures by the application of Propensity Score Matching		2
16	The Assessment of Impacts and Risks of Climate Change on Agriculture (AIRCCA) model: a tool for the rapid global risk assessment for crop yields at a spatially explicit scale. *Spatial Economic Analysis* , **2020**, 15, 262-279	1.6	2
15	Time of emergence of economic impacts of climate change. *Environmental Research Letters*, **2021**, 16, 074039	6.2	2
14	Integrating Behavioral Theories in Agent-Based Models for Agricultural Drought Risk Assessments. *Frontiers in Water*, **2021**, 3,	2.6	2
13	A dual-track transition to global carbon pricing: the glass is half full. *Climate Policy*, **2020**, 20, 1349-1354	5.3	1
12	Firm Level Evidence of Disaster Impacts on Growth in Vietnam. *Environmental and Resource Economics*, **2021**, 79, 277-322	4.4	1

11	Sex differences in temperature-related all-cause mortality in the Netherlands. *International Archives of Occupational and Environmental Health*, **2021**, 1	3.2	1
10	CLIMATE POLICY WITHOUT INTERTEMPORAL DICTATORSHIP: CHICHILNISKY CRITERION VERSUS CLASSICAL UTILITARIANISM IN DICE. *Climate Change Economics*, **2018**, 09, 1850002	0.9	1
9	Perceptions of Catastrophic Climate Risks. *SpringerBriefs in Climate Studies*, **2022**, 11-22	0.2	0
8	Anticipating sea-level rise and human migration: A review of empirical evidence and avenues for future research. *Wiley Interdisciplinary Reviews: Climate Change*, **2022**, 13, e747	8.4	0
7	Setting descriptive norm nudges to promote demand for insurance against increasing climate change risk. *Geneva Papers on Risk and Insurance: Issues and Practice*, **2022**, 47, 27	1.2	0
6	Methodological issues in natural disaster loss normalisation studies. *Environmental Hazards*, **2021**, 20, 112-115	4.2	0
5	Risk communication nudges and flood insurance demand. *Climate Risk Management*, **2021**, 100366	4.6	0
4	As Temporal as Spatial: It Is Geographical Exploring Spatio-temporality in Modelling the Risk of Climate Change and Natural Hazards. *Norsk Geografisk Tidsskrift*, **2017**, 71, 60-61	0.9	
3	Alistair Munro: Bounded Rationality and Public Policy: A Perspective from Behavioural Economics. Ian J. Bateman (ed.): The Economics of Non-Market Goods and Resources. *Environmental and Resource Economics*, **2011**, 49, 305-308	4.4	
2	Individual hurricane evacuation intentions during the COVID-19 pandemic: insights for risk communication and emergency management policies. *Natural Hazards*, **2021**, 1-16	3	
1	Behavioral insights into the causes of underinsurance against flood risks: Experimental evidence from the Netherlands **2022**, 119-136		