David N Bresch

List of Publications by Year
in descending order

46 papers	2,659 citations	279778 23 h-index	223791 46 g-index
91 all docs	91 docs citations	91 times ranked	3447 citing authors

#	Article	IF	Citations
1	Atlantic hurricanes and associated insurance loss potentials in future climate scenarios: limitations of high-resolution AGCM simulations. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 15672.	1.7	11
2	Modelling economic losses of historic and present-day high-impact winter windstorms in Switzerland. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 29546.	1.7	20
3	Mapping urban temperature using crowd-sensing data and machine learning. Urban Climate, 2021, 35, 100739.	5.7	31
4	Social integration matters: factors influencing natural hazard risk preparednessâ€"a survey of Swiss households. Natural Hazards, 2021, 105, 1861-1890.	3.4	7
5	Comparing an insurer's perspective on building damages with modelled damages from pan-European winter windstorm event sets: a case study from Zurich, Switzerland. Natural Hazards and Earth System Sciences, 2021, 21, 279-299.	3.6	13
6	CLIMADA v1.4.1: towards a globally consistent adaptation options appraisal tool. Geoscientific Model Development, 2021, 14, 351-363.	3.6	26
7	A framework for building climate storylines based on downward counterfactuals: The case of the European Union Solidarity fund. Climate Risk Management, 2021, 33, 100349.	3.2	12
8	Global warming and population change both heighten future risk of human displacement due to river floods. Environmental Research Letters, 2021, 16, 044026.	5.2	48
9	Climate signals in river flood damages emerge under sound regional disaggregation. Nature Communications, 2021, 12, 2128.	12.8	26
10	Addressing the human cost in a changing climate. Science, 2021, 372, 1284-1287.	12.6	22
11	Assessing the representational accuracy of data-driven models: The case of the effect of urban green infrastructure on temperature. Environmental Modelling and Software, 2021, 141, 105048.	4.5	5
12	Widening the common space to reduce the gap between climate science and decision-making in industry. Climate Services, 2021, 23, 100237.	2.5	9
13	Double benefit of limiting global warming for tropical cyclone exposure. Nature Climate Change, 2021, 11, 861-866.	18.8	35
14	Intergenerational inequities in exposure to climate extremes. Science, 2021, 374, 158-160.	12.6	148
15	Evaluating targeted heuristics for vulnerability assessment in flood impact model chains. Journal of Flood Risk Management, 2021, 14, e12736.	3.3	5
16	Regional tropical cyclone impact functions for globally consistent risk assessments. Natural Hazards and Earth System Sciences, 2021, 21, 393-415.	3.6	23
17	Globally consistent assessment of economic impacts of wildfires in CLIMADA v2.2. Geoscientific Model Development, 2021, 14, 7175-7187.	3.6	8
18	Towards operational impact forecasting of building damage from winter windstorms in Switzerland. Meteorological Applications, 2021, 28, e2035.	2.1	6

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19	Projecting Exposure to Extreme Climate Impact Events Across Six Event Categories and Three Spatial Scales. Earth's Future, 2020, 8, e2020EF001616.	6.3	69
20	Impact Forecasting to Support Emergency Management of Natural Hazards. Reviews of Geophysics, 2020, 58, e2020RG000704.	23.0	93
21	Understanding and assessing uncertainty of observational climate datasets for model evaluation using ensembles. Wiley Interdisciplinary Reviews: Climate Change, 2020, 11, e654.	8.1	23
22	Argument-based assessment of predictive uncertainty of data-driven environmental models. Environmental Modelling and Software, 2020, 134, 104754.	4.5	10
23	Be Prepared: Exploring Future Climate-Related Risk for Residential and Commercial Real Estate Portfolios. Journal of Alternative Investments, 2020, 23, 24-34.	0.5	7
24	Asset exposure data for global physical risk assessment. Earth System Science Data, 2020, 12, 817-833.	9.9	32
25	Customising global climate science for national adaptation: A case study of climate projections in UNFCCCâ€™s National Communications. Environmental Science and Policy, 2019, 101, 16-23.	4.9	13
26	CLIMADA v1: a global weather and climate risk assessment platform. Geoscientific Model Development, 2019, 12, 3085-3097.	3.6	64
27	Who is â€˜the userâ€™ of climate services? Unpacking the use of national climate scenarios in Switzerland beyond sectors, numeracy and the researchâ€“practice binary. Climate Services, 2019, 15, 100113.	2.5	17
28	Applying big data beyond small problems in climate research. Nature Climate Change, 2019, 9, 196-202.	18.8	51
29	Joint knowledge production in climate change adaptation networks. Current Opinion in Environmental Sustainability, 2019, 39, 147-152.	6.3	12
30	Historical weather data for climate risk assessment. Annals of the New York Academy of Sciences, 2019, 1436, 121-137.	3.8	15
31	Projections of future tropical cyclone damage with a high-resolution global climate model. Climatic Change, 2018, 146, 575-585.	3.6	55
32	Effects of Impact-Based Warnings and Behavioral Recommendations for Extreme Weather Events. Weather, Climate, and Society, 2018, 10, 781-796.	1.1	46
33	Comparing the cost effectiveness of nature-based and coastal adaptation: A case study from the Gulf Coast of the United States. PLoS ONE, 2018, 13, e0192132.	2.5	138
34	Future climate risk from compound events. Nature Climate Change, 2018, 8, 469-477.	18.8	1,074
35	A global historical data set of tropical cyclone exposure (TCE-DAT). Earth System Science Data, 2018, 10, 185-194.	9.9	43
36	Natural Assurance Scheme: A level playing field framework for Green-Grey infrastructure development. Environmental Research, 2017, 159, 24-38.	7.5	44

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37	The social and scientific values that shape national climate scenarios: a comparison of the Netherlands, Switzerland and the UK. Regional Environmental Change, 2017, 17, 2325-2338.	2.9	36
38	Shaping Climate Resilient Development: Economics of Climate Adaptation. , 2016, , 241-254.		8
39	Dynamical Downscaling and Loss Modeling for the Reconstruction of Historical Weather Extremes and Their Impacts: A Severe Foehn Storm in 1925. Bulletin of the American Meteorological Society, 2015, 96, 1233-1241.	3.3	21
40	COASTAL RISKS, NATURE-BASED DEFENSES AND THE ECONOMICS OF ADAPTATION: AN APPLICATION IN THE GULF OF MEXICO, USA. Coastal Engineering Proceedings, 2015, 1, 25.	0.1	23
41	Drought-induced building damages from simulations at regional scale. Natural Hazards and Earth System Sciences, 2011, 11, 3335-3342.	3.6	33
42	Neue, integrierte Sichtweise zum Umgang mit Klimarisiken und deren Versicherung. Schweizerische Zeitschrift Fur Forstwesen, 2011, 162, 464-468.	0.1	4
43	Modelling European winter wind storm losses in current and future climate. Climatic Change, 2010, 101, 485-514.	3.6	148
44	Improved Estimates of the European Winter Windstorm Climate and the Risk of Reinsurance Loss Using Climate Model Data. Journal of Applied Meteorology and Climatology, 2010, 49, 2092-2120.	1.5	35
45	Simulating past droughts and associated building damages in France. Hydrology and Earth System Sciences, 2009, 13, 1739-1747.	4.9	52
46	Covariation of the Mid-Tropospheric Flow and the Sea Surface Temperature of the North Atlantic: A Statistical Analysis. Theoretical and Applied Climatology, 2000, 65, 197-214.	2.8	6