Kai Schrter

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/3915321/kai-schroter-publications-by-year.pdf
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59 papers	1,717 citations	23 h-index	40 g-index
89 ext. papers	2,110 ext. citations	4.6 avg, IF	4.85 L-index

#	Paper	IF	Citations
59	Brief communication: Key papers of 20 years in <i>Natural Hazards and Earth System Sciences</i>. *Natural Hazards and Earth System Sciences*, **2022**, 22, 985-993	3.9	
58	Large-scale flood risk assessment and management: Prospects of a systems approach. *Water Security*, **2021**, 14, 100109	3.8	1
57	Extrapolating Satellite-Based Flood Masks by One-Class Classification—A Test Case in Houston. *Remote Sensing*, **2021**, 13, 2042	5	0
56	A probabilistic approach to estimating residential losses from different flood types. *Natural Hazards*, **2021**, 105, 2569-2601	3	6
55	Finding Relevant Flood Images on Twitter Using Content-Based Filters. *Lecture Notes in Computer Science*, **2021**, 5-14	0.9	1
54	Are OpenStreetMap building data useful for flood vulnerability modelling?. *Natural Hazards and Earth System Sciences*, **2021**, 21, 643-662	3.9	3
53	Process-Based Flood Risk Assessment for Germany. *Earth's Future*, **2021**, 9, e2021EF002259	7.9	1
52	The role of spatial dependence for large-scale flood risk estimation. *Natural Hazards and Earth System Sciences*, **2020**, 20, 967-979	3.9	15
51	Estimating exposure of residential assets to natural hazards in Europe using open data. *Natural Hazards and Earth System Sciences*, **2020**, 20, 323-343	3.9	13
50	Exposure and vulnerability estimation for modelling flood losses to commercial assets in Europe. *Science of the Total Environment*, **2020**, 737, 140011	10.2	9
49	The object-specific flood damage database HOWASI21. *Natural Hazards and Earth System Sciences*, **2020**, 20, 2503-2519	3.9	4
48	Are flood damage models converging to 'reality'? Lessons learnt from a blind test. *Natural Hazards and Earth System Sciences*, **2020**, 20, 2997-3017	3.9	22
47	Bayesian Data-Driven approach enhances synthetic flood loss models. *Environmental Modelling and Software*, **2020**, 132, 104798	5.2	4
46	The need to integrate flood and drought disaster risk reduction strategies. *Water Security*, **2020**, 11, 100070	3.8	23
45	Impact Forecasting to Support Emergency Management of Natural Hazards. *Reviews of Geophysics*, **2020**, 58, e2020RG000704	23.1	29
44	Hierarchical Bayesian Approach for Modeling Spatiotemporal Variability in Flood Damage Processes. *Water Resources Research*, **2019**, 55, 8223-8237	5.4	10
43	Probabilistic Models Significantly Reduce Uncertainty in Hurricane Harvey Pluvial Flood Loss Estimates. *Earth's Future*, **2019**, 7, 384-394	7.9	22

42	Quantifying Flood Vulnerability Reduction via Private Precaution. *Earth's Future*, **2019**, 7, 235-249	7.9	13
41	A Consistent Approach for Probabilistic Residential Flood Loss Modeling in Europe. *Water Resources Research*, **2019**, 55, 10616-10635	5.4	14
40	Flood loss estimation using 3D city models and remote sensing data. *Environmental Modelling and Software*, **2018**, 105, 118-131	5.2	25
39	Evolutionary leap in large-scale flood risk assessment needed. *Wiley Interdisciplinary Reviews: Water* , **2018**, 5, e1266	5.7	38
38	Regional and Temporal Transferability of Multivariable Flood Damage Models. *Water Resources Research*, **2018**, 54, 3688-3703	5.4	33
37	Spatial coherence of flood-rich and flood-poor periods across Germany. *Journal of Hydrology*, **2018**, 559, 813-826	6	22
36	Development and assessment of uni- and multivariable flood loss models for Emilia-Romagna (Italy). *Natural Hazards and Earth System Sciences*, **2018**, 18, 2057-2079	3.9	46
35	From Precipitation to Damage. *Geophysical Monograph Series*, **2018**, 169-183	1.1	0
34	Simulation of flood hazard and risk in the Danube basin with the Future Danube Model. *Climate Services*, **2018**, 12, 14-26	3.8	13
33	How do changes along the risk chain affect flood risk?. *Natural Hazards and Earth System Sciences*, **2018**, 18, 3089-3108	3.9	19
32	Identifying Driving Factors in Flood-Damaging Processes Using Graphical Models. *Water Resources Research*, **2018**, 54, 8864-8889	5.4	23
31	Multi-model ensembles for assessment of flood losses and associated uncertainty. *Natural Hazards and Earth System Sciences*, **2018**, 18, 1297-1314	3.9	28
30	Preface: Natural hazard event analysis for risk reduction and adaptation. *Natural Hazards and Earth System Sciences*, **2018**, 18, 963-968	3.9	6
29	What are the hydro-meteorological controls on flood characteristics?. *Journal of Hydrology*, **2017**, 545, 310-326	6	27
28	New insights into flood warning reception and emergency response by affected parties. *Natural Hazards and Earth System Sciences*, **2017**, 17, 2075-2092	3.9	21
27	HOWAS21, the German Flood Damage Database. *Geophysical Monograph Series*, **2017**, 65-75	1.1	7
26	Adaptation to flood risk: Results of international paired flood event studies. *Earth's Future*, **2017**, 5, 953-965	7.9	111
25	Probabilistic, Multivariable Flood Loss Modeling on the Mesoscale with BT-FLEMO. *Risk Analysis*, **2017**, 37, 774-787	3.9	39

24	Continuous, large-scale simulation model for flood risk assessments: proof-of-concept. *Journal of Flood Risk Management*, **2016**, 9, 3-21	3.1	62
23	A Review of Flood Loss Models as Basis for Harmonization and Benchmarking. *PLoS ONE*, **2016**, 11, e0159791	3.7	81
22	Large-scale flood risk assessment using a coupled model chain. *E3S Web of Conferences*, **2016**, 7, 11005	0.5	2
21	New insights into flood warning and emergency response from the perspective of affected parties **2016**,		3
20	Coping with Pluvial Floods by Private Households. *Water (Switzerland)*, **2016**, 8, 304	3	49
19	Review of the flood risk management system in Germany after the major flood in 2013. *Ecology and Society*, **2016**, 21,	4.1	81
18	The flood of June 2013 in Germany: how much do we know about its impacts?. *Natural Hazards and Earth System Sciences*, **2016**, 16, 1519-1540	3.9	75
17	Tracing the value of data for flood loss modelling. *E3S Web of Conferences*, **2016**, 7, 05005	0.5	5
16	Large-scale, seasonal flood risk analysis for agricultural crops in Germany. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	21
15	Spatially coherent flood risk assessment based on long-term continuous simulation with a coupled model chain. *Journal of Hydrology*, **2015**, 524, 182-193	6	95
14	Social media as an information source for rapid flood inundation mapping. *Natural Hazards and Earth System Sciences*, **2015**, 15, 2725-2738	3.9	125
13	What made the June 2013 flood in Germany an exceptional event? A hydro-meteorological evaluation. *Hydrology and Earth System Sciences*, **2015**, 19, 309-327	5.5	95
12	A review of multiple natural hazards and risks in Germany. *Natural Hazards*, **2014**, 74, 2279-2304	3	31
11	How useful are complex flood damage models?. *Water Resources Research*, **2014**, 50, 3378-3395	5.4	96
10	The extreme flood in June 2013 in Germany. *Houille Blanche*, **2014**, 100, 5-10	0.3	50
9	Investigation of superstorm Sandy 2012 in a multi-disciplinary approach. *Natural Hazards and Earth System Sciences*, **2013**, 13, 2579-2598	3.9	48
8	Implications of radar rainfall estimates uncertainty on distributed hydrological model predictions. *Atmospheric Research*, **2011**, 100, 237-245	5.4	34
7	Sewer modelling based on highly distributed calibration data sets and multi-objective auto-calibration schemes. *Water Science and Technology*, **2008**, 57, 1547-54	2.2	13

6	What made the June 2013 flood in Germany an exceptional event? A hydro-meteorological evaluation	7
5	The flood of June 2013 in Germany: how much do we know about its impacts?	2
4	The object-specific flood damage database HOWAS21	2
3	Investigation of superstorm Sandy 2012 in a multi-disciplinary approach	6
2	Social media as an information source for rapid flood inundation mapping	6
1	Up-scaling of multi-variable flood loss models from objects to land use units at the meso-scale. *Proceedings of the International Association of Hydrological Sciences*,373, 179-182	2