

# Kai Schrter

## 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.

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	Social media as an information source for rapid flood inundation mapping. <i>Natural Hazards and Earth System Sciences</i> , <b>2015</b> , 15, 2725-2738	3.9	125
58	Adaptation to flood risk: Results of international paired flood event studies. <i>Earth's Future</i> , <b>2017</b> , 5, 953-965	3.5	111
57	How useful are complex flood damage models?. <i>Water Resources Research</i> , <b>2014</b> , 50, 3378-3395	5.4	96
56	Spatially coherent flood risk assessment based on long-term continuous simulation with a coupled model chain. <i>Journal of Hydrology</i> , <b>2015</b> , 524, 182-193	6	95
55	What made the June 2013 flood in Germany an exceptional event? A hydro-meteorological evaluation. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 309-327	5.5	95
54	A Review of Flood Loss Models as Basis for Harmonization and Benchmarking. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153791	3.7	81
53	Review of the flood risk management system in Germany after the major flood in 2013. <i>Ecology and Society</i> , <b>2016</b> , 21,	4.1	81
52	The flood of June 2013 in Germany: how much do we know about its impacts?. <i>Natural Hazards and Earth System Sciences</i> , <b>2016</b> , 16, 1519-1540	3.9	75
51	Continuous, large-scale simulation model for flood risk assessments: proof-of-concept. <i>Journal of Flood Risk Management</i> , <b>2016</b> , 9, 3-21	3.1	62
50	The extreme flood in June 2013 in Germany. <i>Houille Blanche</i> , <b>2014</b> , 100, 5-10	0.3	50
49	Coping with Pluvial Floods by Private Households. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 304	3	49
48	Investigation of superstorm Sandy 2012 in a multi-disciplinary approach. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 2579-2598	3.9	48
47	Development and assessment of uni- and multivariable flood loss models for Emilia-Romagna (Italy). <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 2057-2079	3.9	46
46	Probabilistic, Multivariable Flood Loss Modeling on the Mesoscale with BT-FLEMO. <i>Risk Analysis</i> , <b>2017</b> , 37, 774-787	3.9	39
45	Evolutionary leap in large-scale flood risk assessment needed. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2018</b> , 5, e1266	5.7	38
44	Implications of radar rainfall estimates uncertainty on distributed hydrological model predictions. <i>Atmospheric Research</i> , <b>2011</b> , 100, 237-245	5.4	34
43	Regional and Temporal Transferability of Multivariable Flood Damage Models. <i>Water Resources Research</i> , <b>2018</b> , 54, 3688-3703	5.4	33

42	A review of multiple natural hazards and risks in Germany. <i>Natural Hazards</i> , <b>2014</b> , 74, 2279-2304	3	31
41	Impact Forecasting to Support Emergency Management of Natural Hazards. <i>Reviews of Geophysics</i> , <b>2020</b> , 58, e2020RG000704	23.1	29
40	Multi-model ensembles for assessment of flood losses and associated uncertainty. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 1297-1314	3.9	28
39	What are the hydro-meteorological controls on flood characteristics?. <i>Journal of Hydrology</i> , <b>2017</b> , 545, 310-326	6	27
38	Flood loss estimation using 3D city models and remote sensing data. <i>Environmental Modelling and Software</i> , <b>2018</b> , 105, 118-131	5.2	25
37	The need to integrate flood and drought disaster risk reduction strategies. <i>Water Security</i> , <b>2020</b> , 11, 100070	3.8	23
36	Identifying Driving Factors in Flood-Damaging Processes Using Graphical Models. <i>Water Resources Research</i> , <b>2018</b> , 54, 8864-8889	5.4	23
35	Probabilistic Models Significantly Reduce Uncertainty in Hurricane Harvey Pluvial Flood Loss Estimates. <i>Earth's Future</i> , <b>2019</b> , 7, 384-394	7.9	22
34	Spatial coherence of flood-rich and flood-poor periods across Germany. <i>Journal of Hydrology</i> , <b>2018</b> , 559, 813-826	6	22
33	Are flood damage models converging to reality? Lessons learnt from a blind test. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 2997-3017	3.9	22
32	New insights into flood warning reception and emergency response by affected parties. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 2075-2092	3.9	21
31	Large-scale, seasonal flood risk analysis for agricultural crops in Germany. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	21
30	How do changes along the risk chain affect flood risk?. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 3089-3108	3.9	19
29	The role of spatial dependence for large-scale flood risk estimation. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 967-979	3.9	15
28	A Consistent Approach for Probabilistic Residential Flood Loss Modeling in Europe. <i>Water Resources Research</i> , <b>2019</b> , 55, 10616-10635	5.4	14
27	Estimating exposure of residential assets to natural hazards in Europe using open data. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 323-343	3.9	13
26	Sewer modelling based on highly distributed calibration data sets and multi-objective auto-calibration schemes. <i>Water Science and Technology</i> , <b>2008</b> , 57, 1547-54	2.2	13
25	Quantifying Flood Vulnerability Reduction via Private Precaution. <i>Earth's Future</i> , <b>2019</b> , 7, 235-249	7.9	13

24	Simulation of flood hazard and risk in the Danube basin with the Future Danube Model. <i>Climate Services</i> , <b>2018</b> , 12, 14-26	3.8	13
23	Hierarchical Bayesian Approach for Modeling Spatiotemporal Variability in Flood Damage Processes. <i>Water Resources Research</i> , <b>2019</b> , 55, 8223-8237	5.4	10
22	Exposure and vulnerability estimation for modelling flood losses to commercial assets in Europe. <i>Science of the Total Environment</i> , <b>2020</b> , 737, 140011	10.2	9
21	HOWAS21, the German Flood Damage Database. <i>Geophysical Monograph Series</i> , <b>2017</b> , 65-75	1.1	7
20	What made the June 2013 flood in Germany an exceptional event? A hydro-meteorological evaluation		7
19	Investigation of superstorm Sandy 2012 in a multi-disciplinary approach		6
18	Social media as an information source for rapid flood inundation mapping		6
17	A probabilistic approach to estimating residential losses from different flood types. <i>Natural Hazards</i> , <b>2021</b> , 105, 2569-2601	3	6
16	Preface: Natural hazard event analysis for risk reduction and adaptation. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 963-968	3.9	6
15	Tracing the value of data for flood loss modelling. <i>E3S Web of Conferences</i> , <b>2016</b> , 7, 05005	0.5	5
14	The object-specific flood damage database HOWAS21. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 2503-2519	3.9	4
13	Bayesian Data-Driven approach enhances synthetic flood loss models. <i>Environmental Modelling and Software</i> , <b>2020</b> , 132, 104798	5.2	4
12	New insights into flood warning and emergency response from the perspective of affected parties <b>2016</b> ,		3
11	Are OpenStreetMap building data useful for flood vulnerability modelling?. <i>Natural Hazards and Earth System Sciences</i> , <b>2021</b> , 21, 643-662	3.9	3
10	The flood of June 2013 in Germany: how much do we know about its impacts?		2
9	The object-specific flood damage database HOWAS21		2
8	Up-scaling of multi-variable flood loss models from objects to land use units at the meso-scale. <i>Proceedings of the International Association of Hydrological Sciences</i> , <b>373</b> , 179-182		2
7	Large-scale flood risk assessment using a coupled model chain. <i>E3S Web of Conferences</i> , <b>2016</b> , 7, 11005	0.5	2

6	Large-scale flood risk assessment and management: Prospects of a systems approach. <i>Water Security</i> , <b>2021</b> , 14, 100109	3.8	1
5	Finding Relevant Flood Images on Twitter Using Content-Based Filters. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 5-14	0.9	1
4	Process-Based Flood Risk Assessment for Germany. <i>Earth's Future</i> , <b>2021</b> , 9, e2021EF002259	7.9	1
3	From Precipitation to Damage. <i>Geophysical Monograph Series</i> , <b>2018</b> , 169-183	1.1	0
2	Extrapolating Satellite-Based Flood Masks by One-Class Classification: A Test Case in Houston. <i>Remote Sensing</i> , <b>2021</b> , 13, 2042	5	0
1	Brief communication: Key papers of 20 years in <i>Natural Hazards and Earth System Sciences</i>. <i>Natural Hazards and Earth System Sciences</i> , <b>2022</b> , 22, 985-993	3.9	