Bruno Merz

List of Publications by Year in Descending Order

213 papers	11,520 citations	55 h-index	102 g-index
267 ext. papers	13,423 ext. citations	5.1 avg, IF	6.51 L-index

#	Paper	IF	Citations
213	Reconstructing Paleoflood Occurrence and Magnitude from Lake Sediments. *Quaternary*, **2022**, 5, 9	2.2	0
212	Do small and large floods have the same drivers of change? A regional attribution analysis in Europe. *Hydrology and Earth System Sciences*, **2021**, 25, 1347-1364	5.5	10
211	Inventory of dams in Germany. *Earth System Science Data*, **2021**, 13, 731-740	10.5	4
210	Comprehensive evaluation of an improved large-scale multi-site weather generator for Germany. *International Journal of Climatology*, **2021**, 41, 4933-4956	3.5	2
209	Recurrence analysis of extreme event-like data. *Nonlinear Processes in Geophysics*, **2021**, 28, 213-229	2.9	1
208	Groundwater dynamics in the Vietnamese Mekong Delta: Trends, memory effects, and response times. *Journal of Hydrology: Regional Studies*, **2021**, 33, 100746	3.6	2
207	A probabilistic approach to estimating residential losses from different flood types. *Natural Hazards*, **2021**, 105, 2569-2601	3	6
206	A nonlinear hybrid model to assess the impacts of climate variability and human activities on runoff at different time scales. *Stochastic Environmental Research and Risk Assessment*, **2021**, 35, 1917-1929	3.5	0
205	Knowing What to Do Substantially Improves the Effectiveness of Flood Early Warning. *Bulletin of the American Meteorological Society*, **2021**, 102, E1450-E1463	6.1	3
204	Causes, impacts and patterns of disastrous river floods. *Nature Reviews Earth & Environment*, **2021**, 2, 592-609	30.2	26
203	Process-Based Flood Risk Assessment for Germany. *Earth's Future*, **2021**, 9, e2021EF002259	7.9	1
202	Comparative evaluation of two types of stochastic weather generators for synthetic precipitation in the Rhine basin. *Journal of Hydrology*, **2021**, 601, 126544	6	1
201	Biases in national and continental flood risk assessments by ignoring spatial dependence. *Scientific Reports*, **2020**, 10, 19387	4.9	4
200	Comparative analysis of scalar upper tail indicators. *Hydrological Sciences Journal*, **2020**, 65, 1625-1639	3.5	3
199	Optimal design of hydrometric station networks based on complex network analysis. *Hydrology and Earth System Sciences*, **2020**, 24, 2235-2251	5.5	19
198	The role of spatial dependence for large-scale flood risk estimation. *Natural Hazards and Earth System Sciences*, **2020**, 20, 967-979	3.9	15
197	Future projections of flood dynamics in the Vietnamese Mekong Delta. *Science of the Total Environment*, **2020**, 742, 140596	10.2	20

196	Synchronization and Delay Between Circulation Patterns and High Streamflow Events in Germany. *Water Resources Research*, **2020**, 56, e2019WR025598	5.4	3
195	Joint Trends in Flood Magnitudes and Spatial Extents Across Europe.. *Geophysical Research Letters*, **2020**, 47, e2020GL087464	4.9	36
194	Comparing Bayesian and traditional end-member mixing approaches for hydrograph separation in a glacierized basin. *Hydrology and Earth System Sciences*, **2020**, 24, 3289-3309	5.5	6
193	Novel Quantification Method for Hydrograph Similarity. *Springer Water*, **2020**, 727-734	0.3	1
192	Bayesian Data-Driven approach enhances synthetic flood loss models. *Environmental Modelling and Software*, **2020**, 132, 104798	5.2	4
191	Projected Changes in Compound Flood Hazard From Riverine and Coastal Floods in Northwestern Europe. *Earth's Future*, **2020**, 8, e2020EF001752	7.9	11
190	Inter-Comparison of Gauge-Based Gridded Data, Reanalysis and Satellite Precipitation Product with an Emphasis on Hydrological Modeling. *Atmosphere*, **2020**, 11, 1252	2.7	5
189	Impact Forecasting to Support Emergency Management of Natural Hazards. *Reviews of Geophysics*, **2020**, 58, e2020RG000704	23.1	29
188	The role of flood wave superposition in the severity of large floods. *Hydrology and Earth System Sciences*, **2020**, 24, 1633-1648	5.5	7
187	Hierarchical Bayesian Approach for Modeling Spatiotemporal Variability in Flood Damage Processes. *Water Resources Research*, **2019**, 55, 8223-8237	5.4	10
186	Changing climate both increases and decreases European river floods. *Nature*, **2019**, 573, 108-111	50.4	344
185	Variability of the Cold Season Climate in Central Asia. Part II: Hydroclimatic Predictability. *Journal of Climate*, **2019**, 32, 6015-6033	4.4	10
184	Extreme Coastal Water Levels Exacerbate Fluvial Flood Hazards in Northwestern Europe. *Scientific Reports*, **2019**, 9, 13165	4.9	30
183	The Value of Empirical Data for Estimating the Parameters of a Sociohydrological Flood Risk Model. *Water Resources Research*, **2019**, 55, 1312-1336	5.4	22
182	Network-based identification and characterization of teleconnections on different scales. *Scientific Reports*, **2019**, 9, 8808	4.9	27
181	A continuous modelling approach for design flood estimation on sub-daily time scale. *Hydrological Sciences Journal*, **2019**, 64, 539-554	3.5	19
180	Assessing Hydrograph Similarity and Rare Runoff Dynamics by Cross Recurrence Plots. *Water Resources Research*, **2019**, 55, 4704	5.4	8
179	Seamless Estimation of Hydrometeorological Risk Across Spatial Scales. *Earth's Future*, **2019**, 7, 574-581	7.9	7

178	Climate influences on flood probabilities across Europe. *Hydrology and Earth System Sciences*, **2019**, 23, 1305-1322	5.5	24
177	Probabilistic Models Significantly Reduce Uncertainty in Hurricane Harvey Pluvial Flood Loss Estimates. *Earth's Future*, **2019**, 7, 384-394	7.9	22
176	Integrated assessment of short-term direct and indirect economic flood impacts including uncertainty quantification. *PLoS ONE*, **2019**, 14, e0212932	3.7	18
175	Constraining hydrological model parameters using water isotopic compositions in a glacierized basin, Central Asia. *Journal of Hydrology*, **2019**, 571, 332-348	6	15
174	Identification of groundwater mean transit times of precipitation and riverbank infiltration by two-component lumped parameter models. *Hydrological Processes*, **2019**, 33, 3098-3118	3.3	1
173	Causative classification of river flood events. *Wiley Interdisciplinary Reviews: Water*, **2019**, 6, e1353	5.7	45
172	Trends in Compound Flooding in Northwestern Europe During 1901–2014. *Geophysical Research Letters*, **2019**, 46, 10810-10820	4.9	15
171	Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach. *Nonlinear Processes in Geophysics*, **2019**, 26, 251-266	2.9	27
170	Quantifying Flood Vulnerability Reduction via Private Precaution. *Earth's Future*, **2019**, 7, 235-249	7.9	13
169	Flood Risk from a Holistic Perspective – Observed Changes in Germany **2019**, 212-237		6
168	Integrating human behaviour dynamics into flood disaster risk assessment. *Nature Climate Change*, **2018**, 8, 193-199	21.4	186
167	In Search of Determinism-Sensitive Region to Avoid Artefacts in Recurrence Plots. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2018**, 28, 1850007	2	10
166	Do Changing Weather Types Explain Observed Climatic Trends in the Rhine Basin? An Analysis of Within- and Between-Type Changes. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 1562-1584	4.4	8
165	Evolutionary leap in large-scale flood risk assessment needed. *Wiley Interdisciplinary Reviews: Water* , **2018**, 5, e1266	5.7	38
164	The Value of Hydrograph Partitioning Curves for Calibrating Hydrological Models in Glacierized Basins. *Water Resources Research*, **2018**, 54, 2336-2361	5.4	13
163	Spatial coherence of flood-rich and flood-poor periods across Germany. *Journal of Hydrology*, **2018**, 559, 813-826	6	22
162	An event synchronization method to link heavy rainfall events and large-scale atmospheric circulation features. *International Journal of Climatology*, **2018**, 38, 1421-1437	3.5	13
161	From Precipitation to Damage. *Geophysical Monograph Series*, **2018**, 169-183	1.1	0

160	Towards risk-based flood management in highly productive paddy rice cultivation – concept development and application to the Mekong Delta. *Natural Hazards and Earth System Sciences*, **2018**, 18, 2859-2876	3.9	12
159	How do changes along the risk chain affect flood risk?. *Natural Hazards and Earth System Sciences*, **2018**, 18, 3089-3108	3.9	19
158	What controls the stable isotope composition of precipitation in the Mekong Delta? A model-based statistical approach. *Hydrology and Earth System Sciences*, **2018**, 22, 1239-1262	5.5	30
157	Quantifying the roles of single stations within homogeneous regions using complex network analysis. *Journal of Hydrology*, **2018**, 563, 802-810	6	27
156	Variability of the Cold Season Climate in Central Asia. Part I: Weather Types and Their Tropical and Extratropical Drivers. *Journal of Climate*, **2018**, 31, 7185-7207	4.4	19
155	Links between large-scale circulation patterns and streamflow in Central Europe: A review. *Journal of Hydrology*, **2017**, 549, 484-500	6	44
154	What are the hydro-meteorological controls on flood characteristics?. *Journal of Hydrology*, **2017**, 545, 310-326	6	27
153	Multi-scale event synchronization analysis for unravelling climate processes: a wavelet-based approach. *Nonlinear Processes in Geophysics*, **2017**, 24, 599-611	2.9	33
152	Has dyke development in the Vietnamese Mekong Delta shifted flood hazard downstream?. *Hydrology and Earth System Sciences*, **2017**, 21, 3991-4010	5.5	48
151	Seasonal forecasting of hydrological drought in the Limpopo Basin: a comparison of statistical methods. *Hydrology and Earth System Sciences*, **2017**, 21, 1611-1629	5.5	30
150	Changing climate shifts timing of European floods. *Science*, **2017**, 357, 588-590	33.3	402
149	Process-based interpretation of conceptual hydrological model performance using a multinational catchment set. *Water Resources Research*, **2017**, 53, 7247-7268	5.4	24
148	Adaptation to flood risk: Results of international paired flood event studies. *Earth's Future*, **2017**, 5, 953-965	7.9	111
147	Tree-based flood damage modeling of companies: Damage processes and model performance. *Water Resources Research*, **2017**, 53, 6050-6068	5.4	21
146	Probabilistic, Multivariable Flood Loss Modeling on the Mesoscale with BT-FLEMO. *Risk Analysis*, **2017**, 37, 774-787	3.9	39
145	Hochwasser und Sturzfluten an Flüssen in Deutschland **2017**, 87-101		3
144	MODSNOW-Tool: an operational tool for daily snow cover monitoring using MODIS data. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	20
143	Attribution of regional flood changes based on scaling fingerprints. *Water Resources Research*, **2016**, 52, 5322-5340	5.4	52

142	Continuous, large-scale simulation model for flood risk assessments: proof-of-concept. *Journal of Flood Risk Management*, **2016**, 9, 3-21	3.1	62
141	Large-scale flood risk assessment using a coupled model chain. *E3S Web of Conferences*, **2016**, 7, 11005	0.5	2
140	A statistically based seasonal precipitation forecast model with automatic predictor selection and its application to central and south Asia. *Hydrology and Earth System Sciences*, **2016**, 20, 4605-4623	5.5	20
139	Can local climate variability be explained by weather patterns? A multi-station evaluation for the Rhine basin. *Hydrology and Earth System Sciences*, **2016**, 20, 4283-4306	5.5	13
138	Combined fluvial and pluvial urban flood hazard analysis: concept development and application to Can Tho city, Mekong Delta, Vietnam. *Natural Hazards and Earth System Sciences*, **2016**, 16, 941-961	3.9	49
137	High spatial and temporal organization of changes in precipitation over Germany for 1951–2006. *International Journal of Climatology*, **2016**, 36, 2582-2597	3.5	18
136	Tracing the value of data for flood loss modelling. *E3S Web of Conferences*, **2016**, 7, 05005	0.5	5
135	Large-scale, seasonal flood risk analysis for agricultural crops in Germany. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	21
134	Temporal clustering of floods in Germany: Do flood-rich and flood-poor periods exist?. *Journal of Hydrology*, **2016**, 541, 824-838	6	32
133	Handling uncertainty in bivariate quantile estimation – An application to flood hazard analysis in the Mekong Delta. *Journal of Hydrology*, **2015**, 527, 704-717	6	52
132	Total water storage dynamics derived from tree-ring records and terrestrial gravity observations. *Journal of Hydrology*, **2015**, 529, 640-649	6	6
131	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
130	Flood risk assessments at different spatial scales. *Mitigation and Adaptation Strategies for Global Change*, **2015**, 20, 865-890	3.9	148
129	Assessing the probability of large-scale flood loss events: a case study for the river Rhine, Germany. *Journal of Flood Risk Management*, **2015**, 8, 247-262	3.1	28
128	Analysis of changes in climate and river discharge with focus on seasonal runoff predictability in the Aksu River Basin. *Environmental Earth Sciences*, **2015**, 73, 501-516	2.9	41
127	Analysis of current trends in climate parameters, river discharge and glaciers in the Aksu River basin (Central Asia). *Hydrological Sciences Journal*, **2015**, 60, 566-590	3.5	38
126	Identification of coherent flood regions across Europe by using the longest streamflow records. *Journal of Hydrology*, **2015**, 528, 341-360	6	65
125	Attribution of streamflow trends in snow and glacier melt-dominated catchments of the Tarim River, Central Asia. *Water Resources Research*, **2015**, 51, 4727-4750	5.4	110

124	Charting unknown waters? On the role of surprise in flood risk assessment and management. *Water Resources Research*, **2015**, 51, 6399-6416	5.4	52
123	Preface: climate change proof flood risk management. *Mitigation and Adaptation Strategies for Global Change*, **2015**, 20, 837-843	3.9	5
122	Hierarchical Bayesian clustering for nonstationary flood frequency analysis: Application to trends of annual maximum flow in Germany. *Water Resources Research*, **2015**, 51, 6586-6601	5.4	34
121	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
120	Snow-cover reconstruction methodology for mountainous regions based on historic in situ observations and recent remote sensing data. *Cryosphere*, **2015**, 9, 451-463	5.5	24
119	Hydrological and sedimentological processes of flood layer formation in Lake Mondsee. *Depositional Record*, **2015**, 1, 18-37	2	12
118	Future sediment dynamics in the Mekong Delta floodplains: Impacts of hydropower development, climate change and sea level rise. *Global and Planetary Change*, **2015**, 127, 22-33	4.2	109
117	On the relationship between hydro-meteorological patterns and flood types. *Journal of Hydrology*, **2014**, 519, 3249-3262	6	60
116	Documentary evidence of past floods in Europe and their utility in flood frequency estimation. *Journal of Hydrology*, **2014**, 517, 963-973	6	88
115	How useful are complex flood damage models?. *Water Resources Research*, **2014**, 50, 3378-3395	5.4	96
114	Storage-discharge relationships at different catchment scales based on local high-precision gravimetry. *Hydrological Processes*, **2014**, 28, 1465-1475	3.3	33
113	Floods and climate: emerging perspectives for flood risk assessment and management. *Natural Hazards and Earth System Sciences*, **2014**, 14, 1921-1942	3.9	184
112	Understanding flood regime changes in Europe: a state-of-the-art assessment. *Hydrology and Earth System Sciences*, **2014**, 18, 2735-2772	5.5	334
111	Large-scale suspended sediment transport and sediment deposition in the Mekong Delta. *Hydrology and Earth System Sciences*, **2014**, 18, 3033-3053	5.5	65
110	Projecting flood hazard under climate change: an alternative approach to model chains. *Natural Hazards and Earth System Sciences*, **2014**, 14, 1579-1589	3.9	26
109	The extreme flood in June 2013 in Germany. *Houille Blanche*, **2014**, 100, 5-10	0.3	50
108	Sedimentation in the floodplains of the Mekong Delta, Vietnam Part II: deposition and erosion. *Hydrological Processes*, **2014**, 28, 3145-3160	3.3	37
107	Sedimentation in the floodplains of the Mekong Delta, Vietnam. Part I: suspended sediment dynamics. *Hydrological Processes*, **2014**, 28, 3132-3144	3.3	23

106	Challenges for Bayesian network learning in a flood damage assessment application **2014**, 3123-3130		6
105	A quality assessment framework for natural hazard event documentation: application to trans-basin flood reports in Germany. *Natural Hazards and Earth System Sciences*, **2014**, 14, 189-208	3.9	6
104	High-Resolution Climate Change Impact Analysis on Medium-Sized River Catchments in Germany: An Ensemble Assessment. *Journal of Hydrometeorology*, **2013**, 14, 1175-1193	3.7	41
103	What do we know about past changes in the water cycle of Central Asian headwaters? A review. *Global and Planetary Change*, **2013**, 110, 4-25	4.2	166
102	Evaluation of remotely sensed snow cover product in Central Asia **2013**, 44, 506-522		24
101	Mid- to late Holocene flood frequency changes in the northeastern Alps as recorded in varved sediments of Lake Mondsee (Upper Austria). *Quaternary Science Reviews*, **2013**, 80, 78-90	3.9	75
100	Hydraulic model evaluation for large-scale flood risk assessments. *Hydrological Processes*, **2013**, 27, 1331-1340	3.3	47
99	Evaluation of areal precipitation estimates based on downscaled reanalysis and station data by hydrological modelling. *Hydrology and Earth System Sciences*, **2013**, 17, 2415-2434	5.5	55
98	Probabilistic flood hazard mapping: effects of uncertain boundary conditions. *Hydrology and Earth System Sciences*, **2013**, 17, 3127-3140	5.5	73
97	Data expansion: the potential of grey literature for understanding floods. *Hydrology and Earth System Sciences*, **2013**, 17, 895-911	5.5	7
96	Flood trends along the Rhine: the role of river training. *Hydrology and Earth System Sciences*, **2013**, 17, 3871-3884	5.5	38
95	Flood-initiating catchment conditions: a spatio-temporal analysis of large-scale soil moisture patterns in the Elbe River basin. *Hydrology and Earth System Sciences*, **2013**, 17, 1401-1414	5.5	26
94	Multi-variate flood damage assessment: a tree-based data-mining approach. *Natural Hazards and Earth System Sciences*, **2013**, 13, 53-64	3.9	141
93	Sedimentation monitoring including uncertainty analysis in complex floodplains: a case study in the Mekong Delta. *Hydrology and Earth System Sciences*, **2013**, 17, 3039-3057	5.5	15
92	Analysis of a detention basin impact on dike failure probabilities and flood risk for a channel-dike-floodplain system along the river Elbe, Germany. *Journal of Hydrology*, **2012**, 436-437, 120-131	6	72
91	Floodplain hydrology of the Mekong Delta, Vietnam. *Hydrological Processes*, **2012**, 26, 674-686	3.3	61
90	Detection and Attribution of Changes in Flood Hazard and Risk **2012**, 435-458		18
89	A climate-flood link for the lower Mekong River. *Hydrology and Earth System Sciences*, **2012**, 16, 1533-1541	5.5	81

88	Exploring the relationship between changes in climate and floods using a model-based analysis. *Water Resources Research*, **2012**, 48,	5.4	38
87	Monsoon Variability and the Mekong Flood Regime. *Springer Environmental Science and Engineering* , **2012**, 233-244		9
86	HESS Opinions "More efforts and scientific rigour are needed to attribute trends in flood time series". *Hydrology and Earth System Sciences*, **2012**, 16, 1379-1387	5.5	141
85	Total water storage dynamics in response to climate variability and extremes: Inference from long-term terrestrial gravity measurement. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		37
84	Klimawandel und Wasserhaushalt. *Acatech-Studie*, **2012**, 24-90		1
83	Multi-objective automatic calibration of hydrodynamic models utilizing inundation maps and gauge data. *Hydrology and Earth System Sciences*, **2011**, 15, 1339-1354	5.5	71
82	The impact of the uncertainty of dike breach development time on flood hazard. *Physics and Chemistry of the Earth*, **2011**, 36, 319-323	3	16
81	Recent changes in flood preparedness of private households and businesses in Germany. *Regional Environmental Change*, **2011**, 11, 59-71	4.3	110
80	Quantification of Socio-Economic Flood Risks **2011**, 229-247		4
79	Reducing local hydrology from high-precision gravity measurements: a lysimeter-based approach. *Geophysical Journal International*, **2010**, 183, 178-187	2.6	42
78	Introducing empirical and probabilistic regional envelope curves into a mixed bounded distribution function. *Hydrology and Earth System Sciences*, **2010**, 14, 2465-2478	5.5	10
77	Flood trends and variability in the Mekong river. *Hydrology and Earth System Sciences*, **2010**, 14, 407-418	5.5	147
76	The benefits of gravimeter observations for modelling water storage changes at the field scale. *Hydrology and Earth System Sciences*, **2010**, 14, 1715-1730	5.5	26
75	Reply to Comment on "Significance of "high probability/low damage" versus "low probability/high damage" flood events" by C. M. Rheinberger (2009). *Natural Hazards and Earth System Sciences*, **2010**, 10, 3-5	3.9	3
74	Development of FLEMOcs – a new model for the estimation of flood losses in the commercial sector. *Hydrological Sciences Journal*, **2010**, 55, 1302-1314	3.5	129
73	Review article "Assessment of economic flood damage". *Natural Hazards and Earth System Sciences*, **2010**, 10, 1697-1724	3.9	696
72	Application and validation of FLEMOcs – a flood-loss estimation model for the commercial sector. *Hydrological Sciences Journal*, **2010**, 55, 1315-1324	3.5	42
71	Measuring the effect of local water storage changes on in situ gravity observations: Case study of the Geodetic Observatory Wettzell, Germany. *Water Resources Research*, **2010**, 46,	5.4	46

70	A new methodology for flood hazard assessment considering dike breaches. *Water Resources Research*, **2010**, 46,	5.4	97
69	Fluvial flood risk management in a changing world. *Natural Hazards and Earth System Sciences*, **2010**, 10, 509-527	3.9	276
68	Deriving probabilistic regional envelope curves with two pooling methods. *Journal of Hydrology*, **2010**, 380, 14-26	6	19
67	A consistent set of trans-basin floods in Germany between 1952–2002. *Hydrology and Earth System Sciences*, **2010**, 14, 1277-1295	5.5	50
66	Changes in the flood hazard in Germany through changing frequency and persistence of circulation patterns. *Natural Hazards and Earth System Sciences*, **2009**, 9, 1409-1423	3.9	75
65	Development of dike fragility curves for piping and micro-instability breach mechanisms. *Natural Hazards and Earth System Sciences*, **2009**, 9, 1383-1401	3.9	69
64	Significance of "high probability/low damage" versus "low probability/high damage" flood events. *Natural Hazards and Earth System Sciences*, **2009**, 9, 1033-1046	3.9	73
63	Is flow velocity a significant parameter in flood damage modelling?. *Natural Hazards and Earth System Sciences*, **2009**, 9, 1679-1692	3.9	161
62	Trends in flood magnitude, frequency and seasonality in Germany in the period 1951–2002. *Journal of Hydrology*, **2009**, 371, 129-141	6	232
61	Influence of dike breaches on flood frequency estimation. *Computers and Geosciences*, **2009**, 35, 907-923	4.5	53
60	Flood risk curves and uncertainty bounds. *Natural Hazards*, **2009**, 51, 437-458	3	167
59	Risk Estimates for Germany. *Geotechnical, Geological and Earthquake Engineering*, **2009**, 187-196	0.2	
58	Effects of intersite dependence of nested catchment structures on probabilistic regional envelope curves. *Hydrology and Earth System Sciences*, **2009**, 13, 1699-1712	5.5	8
57	Quantification of uncertainties in flood risk assessments. *International Journal of River Basin Management*, **2008**, 6, 149-162	1.7	113
56	Flood risk analysis: uncertainties and validation. *Osterreichische Wasser- Und Abfallwirtschaft*, **2008**, 60, 89-94	0.4	25
55	Spatial and temporal variations of actual soil water repellency and their influence on surface runoff. *Hydrological Processes*, **2008**, 22, 1976-1984	3.3	27
54	Flood precaution and coping with floods of companies in Germany. *WIT Transactions on Ecology and the Environment*, **2008**,	1	4
53	Development and evaluation of FLEMOps – a new Flood Loss Estimation MOdel for the private sector. *WIT Transactions on Ecology and the Environment*, **2008**,	1	91

52	Trends der Hochwassergefährdung in Deutschland (1951 bis 2002) und Konsequenzen für die Bemessung. *Wasserwirtschaft*, **2008**, 98, 24-28	0.3	2
51	Coping with floods: preparedness, response and recovery of flood-affected residents in Germany in 2002. *Hydrological Sciences Journal*, **2007**, 52, 1016-1037	3.5	227
50	Flood precaution of companies and their ability to cope with the flood in August 2002 in Saxony, Germany. *Water Resources Research*, **2007**, 43,	5.4	65
49	Analysis of the runoff response of an alpine catchment at different scales. *Hydrology and Earth System Sciences*, **2007**, 11, 1441-1454	5.5	19
48	Aspects of seasonality and flood generating circulation patterns in a mountainous catchment in south-eastern Germany. *Hydrology and Earth System Sciences*, **2007**, 11, 1455-1468	5.5	44
47	At what scales do climate variability and land cover change impact on flooding and low flows?. *Hydrological Processes*, **2007**, 21, 1241-1247	3.3	259
46	Zwei Jahre RIMAX Rückblick und Ausblick. *Environmental Sciences Europe*, **2007**, 19, 69-70		
45	Flood Risk Mapping At The Local Scale: Concepts and Challenges. *Advances in Natural and Technological Hazards Research*, **2007**, 231-251	1.8	124
44	Improvements on flood alleviation in Germany: lessons learned from the Elbe flood in August 2002. *Environmental Management*, **2006**, 38, 717-32	3.1	55
43	Flood-risk mapping: contributions towards an enhanced assessment of extreme events and associated risks. *Natural Hazards and Earth System Sciences*, **2006**, 6, 485-503	3.9	199
42	Insurability and mitigation of flood losses in private households in Germany. *Risk Analysis*, **2006**, 26, 383-95	3.9	154
41	Possibilities and Limitations of Interdisciplinary, User-oriented Research: Experiences from the German Research Network Natural Disasters. *Natural Hazards*, **2006**, 38, 3-20	3	10
40	Comparative Risk Assessments for the City of Cologne Storms, Floods, Earthquakes. *Natural Hazards*, **2006**, 38, 21-44	3	128
39	A Probabilistic Modelling System for Assessing Flood Risks. *Natural Hazards*, **2006**, 38, 79-100	3	180
38	LESSONS LEARNED FROM THE ELBE RIVER FLOODS IN AUGUST 2002 - WITH A SPECIAL FOCUS ON FLOOD WARNING **2006**, 69-80		3
37	Separating natural and epistemic uncertainty in flood frequency analysis. *Journal of Hydrology*, **2005**, 309, 114-132	6	155
36	Flood damage and influencing factors: New insights from the August 2002 flood in Germany. *Water Resources Research*, **2005**, 41,	5.4	234
35	Risikomanagement extremer Hochwasserereignisse. *Environmental Sciences Europe*, **2005**, 17, 191		6

34	Flood loss reduction of private households due to building precautionary measures lessons learned from the Elbe flood in August 2002. *Natural Hazards and Earth System Sciences*, **2005**, 5, 117-126	3.9	262
33	Estimation uncertainty of direct monetary flood damage to buildings. *Natural Hazards and Earth System Sciences*, **2004**, 4, 153-163	3.9	296
32	Flood risk assessment and associated uncertainty. *Natural Hazards and Earth System Sciences*, **2004**, 4, 295-308	3.9	323
31	Different methods for modelling the areal infiltration of a grass field under heavy precipitation. *Hydrological Processes*, **2002**, 16, 1383-1402	3.3	15
30	Development of a simplified process oriented rainfall runoff model. *Physics and Chemistry of the Earth*, **1999**, 24, 307-311		3
29	Effects of spatial variability on the rainfall runoff process in a small loess catchment. *Journal of Hydrology*, **1998**, 212-213, 304-317	6	82
28	An analysis of the effects of spatial variability of soil and soil moisture on runoff. *Water Resources Research*, **1997**, 33, 2909-2922	5.4	153
27	1-, 2- and 3-dimensional modeling of water movement in the unsaturated soil matrix using a fuzzy approach. *Advances in Water Resources*, **1995**, 18, 237-251	4.7	45
26	Seasonal forecasting of hydrological drought in the Limpopo basin: A comparison of statistical methods.		2
25	Optimal Design of Hydrometric Station Networks Based on Complex Network Analysis		2
24	Understanding flood regime changes in Europe: a state of the art assessment		11
23	Large-scale quantification of suspended sediment transport and deposition in the Mekong Delta		3
22	What made the June 2013 flood in Germany an exceptional event? A hydro-meteorological evaluation		7
21	Aspects of seasonality and flood generating circulation patterns in a mountainous catchment in south-eastern Germany		5
20	Flood trends and variability in the Mekong river		2
19	The benefits of gravimeter observations for modelling water storage changes at the field scale		4
18	A climate-flood link for the lower Mekong River		4
17	Evaluation of areal precipitation estimates based on downscaled reanalysis and station data by hydrological modelling		7

16	HESS Opinions "More efforts and scientific rigour are needed to attribute trends in flood time series"		3
15	What drives flood trends along the Rhine River: climate or river training?		1
14	Effects of rating-curve uncertainty on probabilistic flood mapping		2
13	A quality assessment framework for natural hazard event documentations: application to trans-basin flood reports in Germany		2
12	Flood hazard in the Mekong Delta – a probabilistic, bivariate, and non-stationary analysis with a short-termed future perspective		3
11	Projecting flood hazard under climate change: an alternative approach to model chains		5
10	Floods and climate: emerging perspectives for flood risk assessment and management		15
9	Combined fluvial and pluvial urban flood hazard analysis: method development and application to Can Tho City, Mekong Delta, Vietnam		2
8	Unraveling the spatial diversity of Indian precipitation teleconnections via nonlinear multi-scale approach		2
7	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. *Proceedings of the International Association of Hydrological Sciences*,370, 89-95		22
6	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
5	Estimating parameter values of a socio-hydrological flood model. *Proceedings of the International Association of Hydrological Sciences*,379, 193-198		
4	Data expansion: the potential of grey literature for understanding floods		1
3	Flood-initiating catchment conditions: a spatio-temporal analysis of large-scale soil moisture patterns in the Elbe river basin		1
2	Sedimentation monitoring including uncertainty analysis in complex floodplains: a case study in the Mekong Delta		1
1	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. *International Journal of Climatology*,	3.5	4