

# Heiko Apel

## List of Publications by Year in Descending Order

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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.

62

papers

3,156

citations

28

h-index

56

g-index

82

ext. papers

3,631

ext. citations

4.2

avg. IF

5.26

L-index

#	Paper	IF	Citations
62	Groundwater dynamics in the Vietnamese Mekong Delta: Trends, memory effects, and response times. <i>Journal of Hydrology: Regional Studies</i> , <b>2021</b> , 33, 100746	3.6	2
61	Brief communication: Seasonal prediction of salinity intrusion in the Mekong Delta. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 1609-1616	3.9	5
60	Future projections of flood dynamics in the Vietnamese Mekong Delta. <i>Science of the Total Environment</i> , <b>2020</b> , 742, 140596	10.2	20
59	Impacts of Human Activity and Global Changes on Future Morphodynamics within the Tien River, Vietnamese Mekong Delta. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2204	3	4
58	Climate influences on flood probabilities across Europe. <i>Hydrology and Earth System Sciences</i> , <b>2019</b> , 23, 1305-1322	5.5	24
57	Forecast of seasonal water availability in Central Asia with near-real time GRACE water storage anomalies. <i>Environmental Research Communications</i> , <b>2019</b> , 1, 031006	3.1	3
56	Identification of groundwater mean transit times of precipitation and riverbank infiltration by two-component lumped parameter models. <i>Hydrological Processes</i> , <b>2019</b> , 33, 3098-3118	3.3	1
55	Sand mining in the Mekong Delta revisited - current scales of local sediment deficits. <i>Scientific Reports</i> , <b>2019</b> , 9, 17823	4.9	43
54	Spatial coherence of flood-rich and flood-poor periods across Germany. <i>Journal of Hydrology</i> , <b>2018</b> , 559, 813-826	6	22
53	From Precipitation to Damage. <i>Geophysical Monograph Series</i> , <b>2018</b> , 169-183	1.1	0
52	Towards risk-based flood management in highly productive paddy rice cultivation [concept development and application to the Mekong Delta. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 2859-2876	3.9	12
51	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
50	What controls the stable isotope composition of precipitation in the Mekong Delta? A model-based statistical approach. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 1239-1262	5.5	30
49	Statistical forecast of seasonal discharge in Central Asia using observational records: development of a generic linear modelling tool for operational water resource management. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 2225-2254	5.5	21
48	Links between large-scale circulation patterns and streamflow in Central Europe: A review. <i>Journal of Hydrology</i> , <b>2017</b> , 549, 484-500	6	44
47	Has dyke development in the Vietnamese Mekong Delta shifted flood hazard downstream?. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 3991-4010	5.5	48
46	Seasonal forecasting of hydrological drought in the Limpopo Basin: a comparison of statistical methods. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 1611-1629	5.5	30

45	Adaptation to flood risk: Results of international paired flood event studies. <i>Earth's Future</i> , <b>2017</b> , 5, 953-965	1.1	111
44	Sediment flocculation in the Mekong River estuary, Vietnam, an important driver of geomorphological changes. <i>Comptes Rendus - Geoscience</i> , <b>2017</b> , 349, 260-268	1.4	13
43	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
42	Large-scale flood risk assessment using a coupled model chain. <i>E3S Web of Conferences</i> , <b>2016</b> , 7, 11005	0.5	2
41	A statistically based seasonal precipitation forecast model with automatic predictor selection and its application to central and south Asia. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 4605-4623	5.5	20
40	Combined fluvial and pluvial urban flood hazard analysis: concept development and application to Can Tho city, Mekong Delta, Vietnam. <i>Natural Hazards and Earth System Sciences</i> , <b>2016</b> , 16, 941-961	3.9	49
39	Handling uncertainty in bivariate quantile estimation [An application to flood hazard analysis in the Mekong Delta. <i>Journal of Hydrology</i> , <b>2015</b> , 527, 704-717	6	52
38	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
37	Assessing the probability of large-scale flood loss events: a case study for the river Rhine, Germany. <i>Journal of Flood Risk Management</i> , <b>2015</b> , 8, 247-262	3.1	28
36	Future sediment dynamics in the Mekong Delta floodplains: Impacts of hydropower development, climate change and sea level rise. <i>Global and Planetary Change</i> , <b>2015</b> , 127, 22-33	4.2	109
35	Large-scale suspended sediment transport and sediment deposition in the Mekong Delta. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 3033-3053	5.5	65
34	Projecting flood hazard under climate change: an alternative approach to model chains. <i>Natural Hazards and Earth System Sciences</i> , <b>2014</b> , 14, 1579-1589	3.9	26
33	Sedimentation in the floodplains of the Mekong Delta, Vietnam Part II: deposition and erosion. <i>Hydrological Processes</i> , <b>2014</b> , 28, 3145-3160	3.3	37
32	Sedimentation in the floodplains of the Mekong Delta, Vietnam. Part I: suspended sediment dynamics. <i>Hydrological Processes</i> , <b>2014</b> , 28, 3132-3144	3.3	23
31	HP [Special Issue on Flood Risk and Uncertainty. <i>Hydrological Processes</i> , <b>2013</b> , 27, 1291-1291	3.3	3
30	Thresholds of hydrologic flow regime of a river and investigation of climate change impact [The case of the Lower Brahmaputra river Basin. <i>Climatic Change</i> , <b>2013</b> , 120, 463-475	4.5	42
29	Hydraulic model evaluation for large-scale flood risk assessments. <i>Hydrological Processes</i> , <b>2013</b> , 27, 1331-1340	3.5	47
28	Evaluation of Soil Moisture Retrieval from the ERS and Metop Scatterometers in the Lower Mekong Basin. <i>Remote Sensing</i> , <b>2013</b> , 5, 1603-1623	5	17

27	Sedimentation monitoring including uncertainty analysis in complex floodplains: a case study in the Mekong Delta. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 3039-3057	5.5	15
26	GPS buoys for stage monitoring of large rivers. <i>Journal of Hydrology</i> , <b>2012</b> , 412-413, 182-192	6	16
25	Analysis of a detention basin impact on dike failure probabilities and flood risk for a channel-dike-floodplain system along the river Elbe, Germany. <i>Journal of Hydrology</i> , <b>2012</b> , 436-437, 120-131	6	72
24	Floodplain hydrology of the Mekong Delta, Vietnam. <i>Hydrological Processes</i> , <b>2012</b> , 26, 674-686	3.3	61
23	WISDOM: GNSS-R based flood monitoring <b>2012</b> ,		6
22	A climate-flood link for the lower Mekong River. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 1533-1545	4.5	81
21	Monsoon Variability and the Mekong Flood Regime. <i>Springer Environmental Science and Engineering</i> , <b>2012</b> , 233-244		9
20	Comparative flood damage model assessment: towards a European approach. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 3733-3752	3.9	264
19	Flood Hydraulics and Suspended Sediment Transport in the Plain of Reeds, Mekong Delta. <i>Springer Environmental Science and Engineering</i> , <b>2012</b> , 221-232		
18	Multi-objective automatic calibration of hydrodynamic models utilizing inundation maps and gauge data. <i>Hydrology and Earth System Sciences</i> , <b>2011</b> , 15, 1339-1354	5.5	71
17	The impact of the uncertainty of dike breach development time on flood hazard. <i>Physics and Chemistry of the Earth</i> , <b>2011</b> , 36, 319-323	3	16
16	Towards automatic calibration of 2-D flood propagation models. <i>Hydrology and Earth System Sciences</i> , <b>2010</b> , 14, 911-924	5.5	26
15	Flood trends and variability in the Mekong river. <i>Hydrology and Earth System Sciences</i> , <b>2010</b> , 14, 407-418	5.5	147
14	A new methodology for flood hazard assessment considering dike breaches. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	97
13	Development of dike fragility curves for piping and micro-instability breach mechanisms. <i>Natural Hazards and Earth System Sciences</i> , <b>2009</b> , 9, 1383-1401	3.9	69
12	Influence of dike breaches on flood frequency estimation. <i>Computers and Geosciences</i> , <b>2009</b> , 35, 907-923	4.5	53
11	Flood risk analyses how detailed do we need to be?. <i>Natural Hazards</i> , <b>2009</b> , 49, 79-98	3	362
10	Quantification of uncertainties in flood risk assessments. <i>International Journal of River Basin Management</i> , <b>2008</b> , 6, 149-162	1.7	113

9	Flood risk analysis: uncertainties and validation. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , <b>2008</b> , 60, 89-94	0.4	25
8	A Probabilistic Modelling System for Assessing Flood Risks. <i>Natural Hazards</i> , <b>2006</b> , 38, 79-100	3	180
7	Flood risk assessment and associated uncertainty. <i>Natural Hazards and Earth System Sciences</i> , <b>2004</b> , 4, 295-308	3.9	323
6	Evaluation of treatment strategies of the late blight <i>Phytophthora infestans</i> in Nepal by population dynamics modelling. <i>Environmental Modelling and Software</i> , <b>2003</b> , 18, 355-364	5.2	4
5	Seasonal forecasting of hydrological drought in the Limpopo basin: A comparison of statistical methods.		2
4	Large-scale quantification of suspended sediment transport and deposition in the Mekong Delta		3
3	Flood hazard in the Mekong Delta by a probabilistic, bivariate, and non-stationary analysis with a short-termed future perspective		3
2	Projecting flood hazard under climate change: an alternative approach to model chains		5
1	Sedimentation monitoring including uncertainty analysis in complex floodplains: a case study in the Mekong Delta		1