

# Paul Bates

## List of Publications by Citations

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289  
papers

18,181  
citations

80  
h-index

126  
g-index

334  
ext. papers

20,958  
ext. citations

5.1  
avg, IF

7.01  
L-index

#	Paper	IF	Citations
289	A simple raster-based model for flood inundation simulation. <i>Journal of Hydrology</i> , <b>2000</b> , 236, 54-77	6	931
288	A simple inertial formulation of the shallow water equations for efficient two-dimensional flood inundation modelling. <i>Journal of Hydrology</i> , <b>2010</b> , 387, 33-45	6	581
287	A high-accuracy map of global terrain elevations. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5844-5853	4.9	425
286	Flood frequency analysis for nonstationary annual peak records in an urban drainage basin. <i>Advances in Water Resources</i> , <b>2009</b> , 32, 1255-1266	4.7	292
285	Simple spatially-distributed models for predicting flood inundation: A review. <i>Geomorphology</i> , <b>2007</b> , 90, 208-225	4.3	290
284	Assessing the uncertainty in distributed model predictions using observed binary pattern information within GLUE. <i>Hydrological Processes</i> , <b>2002</b> , 16, 2001-2016	3.3	270
283	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
282	A subgrid channel model for simulating river hydraulics and floodplain inundation over large and data sparse areas. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	261
281	A high-resolution global flood hazard model. <i>Water Resources Research</i> , <b>2015</b> , 51, 7358-7381	5.4	256
280	Effects of spatial resolution on a raster based model of flood flow. <i>Journal of Hydrology</i> , <b>2001</b> , 253, 239-249	3.3	255
279	Predicting floodplain inundation: raster-based modelling versus the finite-element approach. <i>Hydrological Processes</i> , <b>2001</b> , 15, 825-842	3.3	251
278	Cascading model uncertainty from medium range weather forecasts (10 days) through a rainfall-runoff model to flood inundation predictions within the European Flood Forecasting System (EFFS). <i>Hydrology and Earth System Sciences</i> , <b>2005</b> , 9, 381-393	5.5	239
277	A Change Detection Approach to Flood Mapping in Urban Areas Using TerraSAR-X. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 2417-2430	8.1	230
276	Progress in integration of remote sensing-derived flood extent and stage data and hydraulic models. <i>Reviews of Geophysics</i> , <b>2009</b> , 47,	23.1	218
275	Integration of high-resolution topographic data with floodplain flow models. <i>Hydrological Processes</i> , <b>2000</b> , 14, 2109-2122	3.3	217
274	Benchmarking 2D hydraulic models for urban flooding. <i>Water Management</i> , <b>2008</b> , 161, 13-30	1	204
273	Open Channel Flow through Different Forms of Submerged Flexible Vegetation. <i>Journal of Hydraulic Engineering</i> , <b>2003</b> , 129, 847-853	1.8	184

272	Flood Detection in Urban Areas Using TerraSAR-X. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2010</b> , 48, 882-894	8.1	173
271	Distributed Sensitivity Analysis of Flood Inundation Model Calibration. <i>Journal of Hydraulic Engineering</i> , <b>2005</b> , 131, 117-126	1.8	169
270	Remote sensing and flood inundation modelling. <i>Hydrological Processes</i> , <b>2004</b> , 18, 2593-2597	3.3	169
269	Flood-plain mapping: a critical discussion of deterministic and probabilistic approaches. <i>Hydrological Sciences Journal</i> , <b>2010</b> , 55, 364-376	3.5	167
268	Floodplain friction parameterization in two-dimensional river flood models using vegetation heights derived from airborne scanning laser altimetry. <i>Hydrological Processes</i> , <b>2003</b> , 17, 1711-1732	3.3	167
267	Integrated analysis of risks of coastal flooding and cliff erosion under scenarios of long term change. <i>Climatic Change</i> , <b>2009</b> , 95, 249-288	4.5	164
266	A global framework for future costs and benefits of river-flood protection in urban areas. <i>Nature Climate Change</i> , <b>2017</b> , 7, 642-646	21.4	163
265	MERIT Hydro: A High-Resolution Global Hydrography Map Based on Latest Topography Dataset. <i>Water Resources Research</i> , <b>2019</b> , 55, 5053-5073	5.4	162
264	Optimal use of high-resolution topographic data in flood inundation models. <i>Hydrological Processes</i> , <b>2003</b> , 17, 537-557	3.3	158
263	An adaptive time step solution for raster-based storage cell modelling of floodplain inundation. <i>Advances in Water Resources</i> , <b>2005</b> , 28, 975-991	4.7	157
262	Development of the Global Width Database for Large Rivers. <i>Water Resources Research</i> , <b>2014</b> , 50, 3467-3480	3.4	156
261	Evaluating the effect of scale in flood inundation modelling in urban environments. <i>Hydrological Processes</i> , <b>2008</b> , 22, 5107-5118	3.3	155
260	Development of a European flood forecasting system. <i>International Journal of River Basin Management</i> , <b>2003</b> , 1, 49-59	1.7	155
259	Reach scale floodplain inundation dynamics observed using airborne synthetic aperture radar imagery: Data analysis and modelling. <i>Journal of Hydrology</i> , <b>2006</b> , 328, 306-318	6	153
258	Simplified two-dimensional numerical modelling of coastal flooding and example applications. <i>Coastal Engineering</i> , <b>2005</b> , 52, 793-810	4.8	152
257	Estimates of present and future flood risk in the conterminous United States. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 034023	6.2	152
256	Modeling large-scale inundation of Amazonian seasonally flooded wetlands. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	149
255	Advances in pan-European flood hazard mapping. <i>Hydrological Processes</i> , <b>2014</b> , 28, 4067-4077	3.3	144

254	Integrating remote sensing observations of flood hydrology and hydraulic modelling. <i>Hydrological Processes</i> , <b>1997</b> , 11, 1777-1795	3.3	142
253	How much physical complexity is needed to model flood inundation?. <i>Hydrological Processes</i> , <b>2012</b> , 26, 2264-2282	3.3	140
252	Near Real-Time Flood Detection in Urban and Rural Areas Using High-Resolution Synthetic Aperture Radar Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2012</b> , 50, 3041-3052	8.1	135
251	A probabilistic methodology to estimate future coastal flood risk due to sea level rise. <i>Coastal Engineering</i> , <b>2008</b> , 55, 1062-1073	4.8	133
250	Integrating the LISFLOOD-FP 2D hydrodynamic model with the CAESAR model: implications for modelling landscape evolution. <i>Earth Surface Processes and Landforms</i> , <b>2013</b> , 38, 1897-1906	3.7	132
249	Spatial and temporal complexity of the Amazon flood measured from space. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	132
248	An intercomparison of remote sensing river discharge estimation algorithms from measurements of river height, width, and slope. <i>Water Resources Research</i> , <b>2016</b> , 52, 4527-4549	5.4	131
247	A restatement of the natural science evidence concerning catchment-based natural flood management in the UK. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2017</b> , 473, 20160706	2.4	129
246	Benchmarking urban flood models of varying complexity and scale using high resolution terrestrial LiDAR data. <i>Physics and Chemistry of the Earth</i> , <b>2011</b> , 36, 281-291	3	129
245	Integrating remote sensing data with flood inundation models: how far have we got?. <i>Hydrological Processes</i> , <b>2012</b> , 26, 2515-2521	3.3	128
244	Distributed whole city water level measurements from the Carlisle 2005 urban flood event and comparison with hydraulic model simulations. <i>Journal of Hydrology</i> , <b>2009</b> , 368, 42-55	6	126
243	The Regional Hydrology of Extreme Floods in an Urbanizing Drainage Basin. <i>Journal of Hydrometeorology</i> , <b>2002</b> , 3, 267-282	3.7	125
242	Bayesian updating of flood inundation likelihoods conditioned on flood extent data. <i>Hydrological Processes</i> , <b>2004</b> , 18, 3347-3370	3.3	123
241	A first large-scale flood inundation forecasting model. <i>Water Resources Research</i> , <b>2013</b> , 49, 6248-6257	5.4	121
240	Assimilation of virtual wide swath altimetry to improve Arctic river modeling. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 373-381	13.2	120
239	Validation of a 30 m resolution flood hazard model of the conterminous United States. <i>Water Resources Research</i> , <b>2017</b> , 53, 7968-7986	5.4	119
238	Amazon flood wave hydraulics. <i>Journal of Hydrology</i> , <b>2009</b> , 374, 92-105	6	117
237	A data assimilation approach to discharge estimation from space. <i>Hydrological Processes</i> , <b>2009</b> , 23, 3641-3649	3.9	116

236	Identifiability of distributed floodplain roughness values in flood extent estimation. <i>Journal of Hydrology</i> , <b>2005</b> , 314, 139-157	6	115
235	A technique for the calibration of hydraulic models using uncertain satellite observations of flood extent. <i>Journal of Hydrology</i> , <b>2009</b> , 367, 276-282	6	114
234	Improving computational efficiency in global river models by implementing the local inertial flow equation and a vector-based river network map. <i>Water Resources Research</i> , <b>2013</b> , 49, 7221-7235	5.4	113
233	Two-dimensional hydraulic flood modelling using a finite-element mesh decomposed according to vegetation and topographic features derived from airborne scanning laser altimetry. <i>Hydrological Processes</i> , <b>2003</b> , 17, 1979-2000	3.3	113
232	Large-scale coupled hydrologic and hydraulic modelling of the Ob river in Siberia. <i>Journal of Hydrology</i> , <b>2009</b> , 379, 136-150	6	109
231	Seasonal water storage on the Amazon floodplain measured from satellites. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 2448-2456	13.2	104
230	Use of terrestrial laser scanning data to drive decimetric resolution urban inundation models. <i>Advances in Water Resources</i> , <b>2012</b> , 41, 1-17	4.7	103
229	The accuracy of sequential aerial photography and SAR data for observing urban flood dynamics, a case study of the UK summer 2007 floods. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 2536-2546	13.2	103
228	Optimal Cross-Sectional Spacing in Preissmann Scheme 1D Hydrodynamic Models. <i>Journal of Hydraulic Engineering</i> , <b>2009</b> , 135, 96-105	1.8	102
227	Improving the stability of a simple formulation of the shallow water equations for 2-D flood modeling. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	99
226	The importance of spatial resolution in hydraulic models for floodplain environments. <i>Journal of Hydrology</i> , <b>1999</b> , 216, 124-136	6	99
225	The Utility of Spaceborne Radar to Render Flood Inundation Maps Based on Multialgorithm Ensembles. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2009</b> , 47, 2801-2807	8.1	96
224	The credibility challenge for global fluvial flood risk analysis. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 094014	6.2	96
223	Comparing the performance of a 2-D finite element and a 2-D finite volume model of floodplain inundation using airborne SAR imagery. <i>Hydrological Processes</i> , <b>2007</b> , 21, 2745-2759	3.3	95
222	Effects of mesh resolution and topographic representation in 2D finite volume models of shallow water fluvial flow. <i>Journal of Hydrology</i> , <b>2006</b> , 329, 306-314	6	94
221	Utility of different data types for calibrating flood inundation models within a GLUE framework. <i>Hydrology and Earth System Sciences</i> , <b>2005</b> , 9, 412-430	5.5	94
220	Adjustment of a spaceborne DEM for use in floodplain hydrodynamic modeling. <i>Journal of Hydrology</i> , <b>2012</b> , 436-437, 81-91	6	93
219	Probabilistic flood risk mapping including spatial dependence. <i>Hydrological Processes</i> , <b>2013</b> , 27, 1349-1363	5	92

218	A comparison of three parallelisation methods for 2D flood inundation models. <i>Environmental Modelling and Software</i> , <b>2010</b> , 25, 398-411	5.2	92
217	Regional flood frequency analysis at the global scale. <i>Water Resources Research</i> , <b>2015</b> , 51, 539-553	5.4	91
216	Modelling floodplain flows using a two-dimensional finite element model. <i>Earth Surface Processes and Landforms</i> , <b>1992</b> , 17, 575-588	3.7	89
215	Evaluating a new LISFLOOD-FP formulation with data from the summer 2007 floods in Tewkesbury, UK. <i>Journal of Flood Risk Management</i> , <b>2011</b> , 4, 88-95	3.1	88
214	SRTM vegetation removal and hydrodynamic modeling accuracy. <i>Water Resources Research</i> , <b>2013</b> , 49, 5276-5289	5.4	87
213	A storm surge inundation model of the northern Bay of Bengal using publicly available data. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2013</b> , 139, 358-369	6.4	87
212	Scheduling satellite-based SAR acquisition for sequential assimilation of water level observations into flood modelling. <i>Journal of Hydrology</i> , <b>2013</b> , 495, 252-266	6	86
211	Calibration of uncertain flood inundation models using remotely sensed water levels. <i>Journal of Hydrology</i> , <b>2009</b> , 368, 224-236	6	83
210	Use of fused airborne scanning laser altimetry and digital map data for urban flood modelling. <i>Hydrological Processes</i> , <b>2007</b> , 21, 1436-1447	3.3	80
209	Hydraulic characterization of the middle reach of the Congo River. <i>Water Resources Research</i> , <b>2013</b> , 49, 5059-5070	5.4	78
208	Near real-time flood wave approximation on large rivers from space: Application to the River Po, Italy. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	77
207	Improving River Flood Extent Delineation From Synthetic Aperture Radar Using Airborne Laser Altimetry. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2007</b> , 45, 3932-3943	8.1	76
206	Satellite-supported flood forecasting in river networks: A real case study. <i>Journal of Hydrology</i> , <b>2015</b> , 523, 706-724	6	73
205	Automatic near real-time selection of flood water levels from high resolution Synthetic Aperture Radar images for assimilation into hydraulic models: A case study. <i>Remote Sensing of Environment</i> , <b>2012</b> , 124, 705-716	13.2	73
204	Applicability of the local inertial approximation of the shallow water equations to flood modeling. <i>Water Resources Research</i> , <b>2013</b> , 49, 4833-4844	5.4	71
203	Flooding dynamics on the lower Amazon floodplain: 1. Hydraulic controls on water elevation, inundation extent, and river-floodplain discharge. <i>Water Resources Research</i> , <b>2014</b> , 50, 619-634	5.4	70
202	Modelling suspended sediment deposition on a fluvial floodplain using a two-dimensional dynamic finite element model. <i>Journal of Hydrology</i> , <b>2000</b> , 229, 202-218	6	70
201	The impact of uncertainty in satellite data on the assessment of flood inundation models. <i>Journal of Hydrology</i> , <b>2012</b> , 414-415, 162-173	6	68

200	Technology: Fight floods on a global scale. <i>Nature</i> , <b>2014</b> , 507, 169	50.4	67
199	A new method for moving boundary hydrodynamic problems in shallow water. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>1999</b> , 455, 3107-3128	2.4	67
198	When does spatial resolution become spurious in probabilistic flood inundation predictions?. <i>Hydrological Processes</i> , <b>2016</b> , 30, 2014-2032	3.3	67
197	New estimates of flood exposure in developing countries using high-resolution population data. <i>Nature Communications</i> , <b>2019</b> , 10, 1814	17.4	65
196	Toward a conceptual model of floodplain water table response. <i>Water Resources Research</i> , <b>2004</b> , 40,	5.4	64
195	Sampling-based flood risk analysis for fluvial dike systems. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2005</b> , 19, 388-402	3.5	64
194	Floodplain channel morphology and networks of the middle Amazon River. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	63
193	Timely Low Resolution SAR Imagery To Support Floodplain Modelling: a Case Study Review. <i>Surveys in Geophysics</i> , <b>2011</b> , 32, 255-269	7.6	62
192	Calibration of channel depth and friction parameters in the LISFLOOD-FP hydraulic model using medium-resolution SAR data and identifiability techniques. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 4983-4997	5.5	60
191	Efficient incorporation of channel cross-section geometry uncertainty into regional and global scale flood inundation models. <i>Journal of Hydrology</i> , <b>2015</b> , 529, 169-183	6	57
190	Near real time satellite imagery to support and verify timely flood modelling. <i>Hydrological Processes</i> , <b>2009</b> , 23, 799-803	3.3	57
189	Quantified Analysis of the Probability of Flooding in the Thames Estuary under Imaginable Worst-case Sea Level Rise Scenarios. <i>International Journal of Water Resources Development</i> , <b>2005</b> , 21, 577-591	3	57
188	Quantifying the importance of spatial resolution and other factors through global sensitivity analysis of a flood inundation model. <i>Water Resources Research</i> , <b>2016</b> , 52, 9146-9163	5.4	57
187	Regional flood dynamics in a bifurcating mega delta simulated in a global river model. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 3127-3135	4.9	55
186	Visualization approaches for communicating real-time flood forecasting level and inundation information. <i>Journal of Flood Risk Management</i> , <b>2010</b> , 3, 140-150	3.1	55
185	Application of a 3D numerical model to a river with vegetated floodplains. <i>Journal of Hydroinformatics</i> , <b>2003</b> , 5, 99-112	2.6	55
184	Numerical simulation of floodplain hydrology. <i>Water Resources Research</i> , <b>2000</b> , 36, 2517-2529	5.4	55
183	Evaluating scale and roughness effects in urban flood modelling using terrestrial LIDAR data. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 4015-4030	5.5	52

182	Perspectives on Digital Elevation Model (DEM) Simulation for Flood Modeling in the Absence of a High-Accuracy Open Access Global DEM. <i>Frontiers in Earth Science</i> , <b>2018</b> , 6,	3.5	51
181	Problems with binary pattern measures for flood model evaluation. <i>Hydrological Processes</i> , <b>2014</b> , 28, 4928-4937	3.3	50
180	Quantifying the Uncertainty in Future Coastal Flood Risk Estimates for the U.K. <i>Journal of Coastal Research</i> , <b>2011</b> , 276, 870-881	0.6	50
179	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 5629-5637	5.5	50
178	Accuracy assessment of the TanDEM-X 90 Digital Elevation Model for selected floodplain sites. <i>Remote Sensing of Environment</i> , <b>2019</b> , 232, 111319	13.2	49
177	Flooding dynamics on the lower Amazon floodplain: 2. Seasonal and interannual hydrological variability. <i>Water Resources Research</i> , <b>2014</b> , 50, 635-649	5.4	48
176	Surface water connectivity dynamics of a large scale extreme flood. <i>Journal of Hydrology</i> , <b>2013</b> , 505, 138-149	6	48
175	Flood Forecasting and Warning at the River Basin and at the European Scale. <i>Natural Hazards</i> , <b>2005</b> , 36, 25-42	3	48
174	The Need for a High-Accuracy, Open-Access Global DEM. <i>Frontiers in Earth Science</i> , <b>2018</b> , 6,	3.5	48
173	INITIAL COMPARISON OF TWO TWO-DIMENSIONAL FINITE ELEMENT CODES FOR RIVER FLOOD SIMULATION.. <i>Proceedings of the Institution of Civil Engineers: Water, Maritime and Energy</i> , <b>1995</b> , 112, 238-248		46
172	New insights into US flood vulnerability revealed from flood insurance big data. <i>Nature Communications</i> , <b>2020</b> , 11, 1444	17.4	45
171	Geodetic corrections to Amazon River water level gauges using ICESat altimetry. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	45
170	<b>2005</b> ,		45
169	Attenuating reaches and the regional flood response of an urbanizing drainage basin. <i>Advances in Water Resources</i> , <b>2003</b> , 26, 673-684	4.7	43
168	Development and testing of a subgrid-scale model for moving-boundary hydrodynamic problems in shallow water. <i>Hydrological Processes</i> , <b>2000</b> , 14, 2073-2088	3.3	42
167	A two-dimensional finite-element model for river flow inundation. <i>Proceedings of the Royal Society A</i> , <b>1993</b> , 440, 481-491		42
166	Quantifying local rainfall dynamics and uncertain boundary conditions into a nested regional-local flood modeling system. <i>Water Resources Research</i> , <b>2017</b> , 53, 2770-2785	5.4	41
165	Geometric and structural river channel complexity and the prediction of urban inundation. <i>Hydrological Processes</i> , <b>2011</b> , 25, 3173-3186	3.3	41



164	INTERNAL AND EXTERNAL VALIDATION OF A TWO-DIMENSIONAL FINITE ELEMENT CODE FOR RIVER FLOOD SIMULATIONS.. <i>Proceedings of the Institution of Civil Engineers: Water, Maritime and Energy</i> , <b>1998</b> , 130, 127-141		41
163	Improving the TanDEM-X Digital Elevation Model for flood modelling using flood extents from Synthetic Aperture Radar images. <i>Remote Sensing of Environment</i> , <b>2016</b> , 173, 15-28	13.2	40
162	Investigating two-dimensional, finite element predictions of floodplain inundation using fractal generated topography <b>1998</b> , 12, 1257-1277		40
161	ICESat-derived inland water surface spot heights. <i>Water Resources Research</i> , <b>2016</b> , 52, 3276-3284	5.4	40
160	Observing Global Surface Water Flood Dynamics. <i>Surveys in Geophysics</i> , <b>2014</b> , 35, 839-852	7.6	39
159	Coupled 1D/Quasi-2D Flood Inundation Model with Unstructured Grids. <i>Journal of Hydraulic Engineering</i> , <b>2010</b> , 136, 493-506	1.8	39
158	Modelling floods in hydrologically complex lowland river reaches. <i>Journal of Hydrology</i> , <b>1999</b> , 223, 85-106		39
157	Combined Modeling of US Fluvial, Pluvial, and Coastal Flood Hazard Under Current and Future Climates. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR028673	5.4	39
156	Evolutionary leap in large-scale flood risk assessment needed. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2018</b> , 5, e1266	5.7	38
155	Probabilistic evaluation of flood hazard in urban areas using Monte Carlo simulation. <i>Hydrological Processes</i> , <b>2012</b> , 26, 3962-3972	3.3	38
154	The impact of uncertain precipitation data on insurance loss estimates using a flood catastrophe model. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 2305-2324	5.5	38
153	AirSWOT measurements of river water surface elevation and slope: Tanana River, AK. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 181-189	4.9	37
152	The Spatial Dependence of Flood Hazard and Risk in the United States. <i>Water Resources Research</i> , <b>2019</b> , 55, 1890-1911	5.4	37
151	Comparing 2D capabilities of HEC-RAS and LISFLOOD-FP on complex topography. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 1769-1782	3.5	36
150	Rethinking flood hazard at the global scale. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 10,249-10,256	4.9	36
149	Strange Floods: The Upper Tail of Flood Peaks in the United States. <i>Water Resources Research</i> , <b>2018</b> , 54, 6510-6542	5.4	35
148	A rule based quality control method for hourly rainfall data and a 1 km resolution gridded hourly rainfall dataset for Great Britain: CEH-GEAR1hr. <i>Journal of Hydrology</i> , <b>2018</b> , 564, 930-943	6	34
147	Tradeoff between cost and accuracy in large-scale surface water dynamic modeling. <i>Water Resources Research</i> , <b>2017</b> , 53, 4942-4955	5.4	32

146	Increased Flood Exposure Due to Climate Change and Population Growth in the United States. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001778	7.9	31
145	A flood inundation forecast of Hurricane Harvey using a continental-scale 2D hydrodynamic model. <i>Journal of Hydrology X</i> , <b>2019</b> , 4, 100039	4.6	31
144	Case Study of the Use of Remotely Sensed Data for Modeling Flood Inundation on the River Severn, U.K.. <i>Journal of Hydraulic Engineering</i> , <b>2008</b> , 134, 533-540	1.8	31
143	The TELEMAC modelling system Special issue. <i>Hydrological Processes</i> , <b>2000</b> , 14, 2207-2208	3.3	31
142	Perspectives on Open Access High Resolution Digital Elevation Models to Produce Global Flood Hazard Layers. <i>Frontiers in Earth Science</i> , <b>2016</b> , 3,	3.5	31
141	Optimisation of the two-dimensional hydraulic model LISFOOD-FP for CPU architecture. <i>Environmental Modelling and Software</i> , <b>2018</b> , 107, 148-157	5.2	31
140	Modelling the hydraulics of the Carlisle 2005 flood event. <i>Water Management</i> , <b>2010</b> , 163, 273-281	1	30
139	Calibration of two-dimensional floodplain modeling in the central Atchafalaya Basin Floodway System using SAR interferometry. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	29
138	Comparing ensemble projections of flooding against flood estimation by continuous simulation. <i>Journal of Hydrology</i> , <b>2014</b> , 511, 205-219	6	28
137	Downscaling coarse grid hydrodynamic model simulations over large domains. <i>Journal of Hydrology</i> , <b>2014</b> , 508, 289-298	6	28
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135	Validation of River Flows in HadGEM1 and HadCM3 with the TRIP River Flow Model. <i>Journal of Hydrometeorology</i> , <b>2011</b> , 12, 1157-1180	3.7	28
134	Investigating the Behaviour of Two-Dimensional Finite Element Models of Compound Channel Flow <b>1997</b> , 22, 3-17		28
133	A preliminary investigation into the impact of initial conditions on flood inundation predictions using a time/space distributed sensitivity analysis. <i>Catena</i> , <b>1996</b> , 26, 115-134	5.8	28
132	A benefit-cost analysis of floodplain land acquisition for US flood damage reduction. <i>Nature Sustainability</i> , <b>2020</b> , 3, 56-62	22.1	28
131	Implications of Simulating Global Digital Elevation Models for Flood Inundation Studies. <i>Water Resources Research</i> , <b>2018</b> , 54, 7910-7928	5.4	28
130	Understanding the variability of an extreme storm tide along a coastline. <i>Estuarine, Coastal and Shelf Science</i> , <b>2013</b> , 123, 19-25	2.9	27
129	Improved simulation of flood flows using storage cell models. <i>Water Management</i> , <b>2006</b> , 159, 9-18	1	26

128	Causes, impacts and patterns of disastrous river floods. <i>Nature Reviews Earth &amp; Environment</i> , <b>2021</b> , 2, 592-609	30.2	26
127	GLOFRIM v1.0 A globally applicable computational framework for integrated hydrologicalHydrodynamic modelling. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 3913-3929	6.3	25
126	Critical analysis of thermal inertia approaches for surface soil water content retrieval. <i>Hydrological Sciences Journal</i> , <b>2013</b> , 58, 1144-1161	3.5	25
125	Comparing TanDEM-X Data With Frequently Used DEMs for Flood Inundation Modeling. <i>Water Resources Research</i> , <b>2018</b> , 54, 10,205	5.4	25
124	The effects of spatial resolution and dimensionality on modeling regional-scale hydraulics in a multichannel river. <i>Water Resources Research</i> , <b>2017</b> , 53, 1683-1701	5.4	24
123	Developing observational methods to drive future hydrological science: Can we make a start as a community?. <i>Hydrological Processes</i> , <b>2020</b> , 34, 868-873	3.3	24
122	Epistemic uncertainties and natural hazard risk assessment [Part 1: A review of different natural hazard areas. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 2741-2768	3.9	24
121	An automated routing methodology to enable direct rainfall in high resolution shallow water models. <i>Hydrological Processes</i> , <b>2013</b> , 27, 467-476	3.3	23
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119	Impact of the timing of a SAR image acquisition on the calibration of a flood inundation model. <i>Advances in Water Resources</i> , <b>2017</b> , 100, 126-138	4.7	22
118	Evaluation of a coastal flood inundation model using hard and soft data. <i>Environmental Modelling and Software</i> , <b>2011</b> , 30, 35-35	5.2	22
117	Epistemic uncertainties and natural hazard risk assessment [Part 2: What should constitute good practice?. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 2769-2783	3.9	22
116	Enhanced flood risk with 1.5 °C global warming in the GangesBrahmaputraMeghna basin. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 074031	6.2	21
115	Effects of variability in probable maximum precipitation patterns on flood losses. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 2759-2773	5.5	21
114	Bay of Bengal cyclone extreme water level estimate uncertainty. <i>Natural Hazards</i> , <b>2014</b> , 72, 983-996	3	21
113	Tracking water level changes of the Amazon Basin with space-borne remote sensing and integration with large scale hydrodynamic modelling: A review. <i>Physics and Chemistry of the Earth</i> , <b>2011</b> , 36, 223-231	3	21
112	Sensitivity of a hydraulic model to channel erosion uncertainty during extreme flooding. <i>Hydrological Processes</i> , <b>2015</b> , 29, 261-279	3.3	20
111	Uncertainty in Flood Inundation Modelling <b>2014</b> , 232-269		20

110	Assessment of soil moisture fields from imperfect climate models with uncertain satellite observations. <i>Hydrology and Earth System Sciences</i> , <b>2009</b> , 13, 1545-1553	5.5	20
109	A New Automated Method for Improved Flood Defense Representation in Large-Scale Hydraulic Models. <i>Water Resources Research</i> , <b>2019</b> , 55, 11007-11034	5.4	19
108	Investigating the application of climate models in flood projection across the UK. <i>Hydrological Processes</i> , <b>2014</b> , 28, 2810-2823	3.3	19
107	A preliminary investigation of the integration of modelled floodplain hydraulics with estimates of overbank floodplain sedimentation derived from Pb-210 and Cs-137 measurements. <i>Earth Surface Processes and Landforms</i> , <b>1999</b> , 24, 211-231	3.7	19
106	The influence of vertical water balance on modelling Pantanal (Brazil) spatio-temporal inundation dynamics. <i>Hydrological Processes</i> , <b>2014</b> , 28, 3539-3553	3.3	18
105	Investigating RiverBurge Interaction in Idealised Estuaries. <i>Journal of Coastal Research</i> , <b>2014</b> , 294, 248-256	3.6	18
104	Modelling the spatial variability in floodplain soil contamination during flood events to improve chemical mass balance estimates <b>1998</b> , 12, 1233-1255		18
103	Modelling suspended-sediment propagation and related heavy metal contamination in floodplains: a parameter sensitivity analysis. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 3539-3551	5.5	17
102	Hydraulic modeling of the 2011 New Madrid Floodway activation: a case study on floodway activation controls. <i>Natural Hazards</i> , <b>2015</b> , 77, 1863-1887	3	16
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100	A Framework for Model Verification and Validation of CFD Schemes in Natural Open Channel Flows <b>2005</b> , 169-192		16
99	Temporal variations in river water surface elevation and slope captured by AirSWOT. <i>Remote Sensing of Environment</i> , <b>2019</b> , 224, 304-316	13.2	16
98	ItzI(version 17.1): an open-source, distributed GIS model for dynamic flood simulation. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 1835-1847	6.3	15
97	The Use of Radar Imagery in Riverine Flood Inundation Studies <b>2012</b> , 115-140		15
96	Evaluating data constraints on two dimensional finite element models of floodplain flow. <i>Catena</i> , <b>1994</b> , 22, 1-15	5.8	15
95	Modelling of Open Channel Flow through Vegetation <b>2005</b> , 395-428		14
94	A probabilistic framework for floodplain mapping using hydrological modeling and unsteady hydraulic modeling. <i>Hydrological Sciences Journal</i> , <b>2018</b> , 63, 1759-1775	3.5	14
93	Rainfall uncertainty for extreme events in NWP downscaling model. <i>Hydrological Processes</i> , <b>2011</b> , 25, 1397-1406	3.3	13

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91	The contribution to future flood risk in the Severn Estuary from extreme sea level rise due to ice sheet mass loss. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 5887-5898	3.3	12
90	Evaluating scale and roughness effects in urban flood modelling using terrestrial LIDAR data		12
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85	Epistemic uncertainties and natural hazard risk assessment [Part 1: A review of the issues]		11
84	The Impact of Dams on Design Floods in the Conterminous US. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR025380	1.1	9
83	Parameterisation, Validation and Uncertainty Analysis of CFD Models of Fluvial and Flood Hydraulics in the Natural Environment <b>2005</b> , 193-213		10
82	Global Flood Hazard Mapping, Modeling, and Forecasting. <i>Geophysical Monograph Series</i> , <b>2018</b> , 239-244	1.1	9
81	Two dimensional finite element modelling of floodplain flow. <i>Houille Blanche</i> , <b>1999</b> , 85, 82-88	0.3	9
80	Testing the impact of direct and indirect flood warnings on population behaviour using an agent-based model. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 2281-2305	3.9	9
79	Progress Toward Hyperresolution Models of Global Flood Hazard <b>2018</b> , 211-232		9
78	Flood Mapping Using Synthetic Aperture Radar Sensors From Local to Global Scales. <i>Geophysical Monograph Series</i> , <b>2018</b> , 55-77	1.1	8
77	Data Utilization in Flood Inundation Modelling <b>2010</b> , 209-233		8
76	Computational Fluid Dynamics Modelling for Environmental Hydraulics <b>2005</b> , 1-15		8
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68	An entropy method for floodplain monitoring network design <b>2012</b> ,		6
67	Is Vostok lake in steady state?. <i>Annals of Glaciology</i> , <b>2004</b> , 39, 490-494	2.5	6
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65	Bare-Earth DEM Generation in Urban Areas for Flood Inundation Simulation Using Global Digital Elevation Models. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR028516	5.4	6
64	LISFLOOD-FP 8.0: the new discontinuous Galerkin shallow-water solver for multi-core CPUs and GPUs. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 3577-3602	6.3	6
63	(Multi)wavelets increase both accuracy and efficiency of standard Godunov-type hydrodynamic models. <i>Advances in Water Resources</i> , <b>2019</b> , 129, 31-55	4.7	5
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61	The Need for Mapping, Modeling, and Predicting Flood Hazard and Risk at the Global Scale. <i>Geophysical Monograph Series</i> , <b>2018</b> , 1-15	1.1	5
60	Global Flood Risk Modeling and Projections of Climate Change Impacts. <i>Geophysical Monograph Series</i> , <b>2018</b> , 185-203	1.1	5
59	The Impact of Scale on Probabilistic Flood Inundation Maps Using a 2D Hydraulic Model with Uncertain Boundary Conditions <b>2014</b> ,		5
58	Numerical Modelling of Floodplain Flow <b>2005</b> , 271-304		5
57	Modelling Wetting and Drying Processes in Hydraulic Models <b>2005</b> , 121-146		5

56	Digital Elevation Models for topographic characterisation and flood flow modelling along low-gradient, terminal dryland rivers: A comparison of spaceborne datasets for the RB Colorado, Bolivia. <i>Journal of Hydrology</i> , <b>2020</b> , 591, 125617	6	5
55	Knowledge gaps in our perceptual model of Great Britain's hydrology. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14288	3.3	5
54	Method Uncertainty Is Essential for Reliable Confidence Statements of Precipitation Projections. <i>Journal of Climate</i> , <b>2021</b> , 34, 1227-1240	4.4	5
53	Global Flood Forecasting for Averting Disasters Worldwide. <i>Geophysical Monograph Series</i> , <b>2018</b> , 205-228.	1	4
52	Data Assimilation and River Hydrodynamic Modeling Over Large Scales. <i>Geophysical Monograph Series</i> , <b>2018</b> , 229-237	1.1	4
51	Global Flood Monitoring Using Satellite Precipitation and Hydrological Modeling. <i>Geophysical Monograph Series</i> , <b>2018</b> , 87-113	1.1	4
50	Rapid and Stable Flood Inundation Modelling Using the Local Inertial Equation. <i>Suimon Mizu Shigen Gakkaishi</i> , <b>2015</b> , 28, 124-130	0.2	4
49	Numerical simulation of three-dimensional velocity fields in pressurized and non-pressurized Nye channels. <i>Annals of Glaciology</i> , <b>2003</b> , 37, 281-285	2.5	4
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46	Rainfall Information for Global Flood Modeling. <i>Geophysical Monograph Series</i> , <b>2018</b> , 17-42	1.1	3
45	Modeling and Mapping of Global Flood Hazard Layers. <i>Geophysical Monograph Series</i> , <b>2018</b> , 131-155	1.1	3
44	APPLICATION OF THE 1D-QUASI 2D MODEL TINFLOOD FOR FLOODPLAIN INUNDATION PREDICTION OF THE RIVER THAMES. <i>ISH Journal of Hydraulic Engineering</i> , <b>2011</b> , 17, 98-110	1.5	3
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41	Assessing flooding impact to riverine bridges: an integrated analysis		3
40	Flood Inundation Prediction. <i>Annual Review of Fluid Mechanics</i> , <b>2022</b> , 54,	22	3
39	Establishing uncertainty ranges of hydrologic indices across climate and physiographic regions of the Congo River Basin. <i>Journal of Hydrology: Regional Studies</i> , <b>2020</b> , 30, 100710	3.6	3

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37	Simulating historical flood events at the continental scale: observational validation of a large-scale hydrodynamic model. <i>Natural Hazards and Earth System Sciences</i> , <b>2021</b> , 21, 559-575	3.9	3
36	A near real-time algorithm for flood detection in urban and rural areas using high resolution Synthetic Aperture Radar images <b>2011</b> ,		2
35	Design flood estimation for global river networks based on machine learning models. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 5981-5999	5.5	2
34	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection		2
33	Epistemic uncertainties and natural hazard risk assessment [Part 2: Different natural hazard areas		2
32	Epistemic uncertainties and natural hazard risk assessment. 2. What should constitute good practice?		2
31	Observing Global Surface Water Flood Dynamics. <i>Space Sciences Series of ISSI</i> , <b>2013</b> , 839-852	0.1	2
30	US fluvial, pluvial and coastal flood hazard under current and future climates		2
29	Assessing the hydrological and geomorphic behaviour of a landscape evolution model within a limits-of-acceptability uncertainty analysis framework. <i>Earth Surface Processes and Landforms</i> , <b>2021</b> , 46, 1981-2003	3.7	2
28	Towards a framework of catchment classification for hydrologic predictions and water resources management in the ungauged basin of the Congo River: An a priori approach		2
27	Multi return periods flood hazards and risks assessment in the Congo River Basin		2
26	Epistemic uncertainties and natural hazard risk assessment. 1. A review of different natural hazard areas <b>2017</b> ,		1
25	RISK ANALYSIS AND OPTIMUM ADAPTATION FOR COASTAL FLOODING UNDER CLIMATE CHANGE. <i>Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering)</i> , <b>2016</b> , 72, I_1519-I_1524	0.1	1
24	Flood Inundation Modelling Using LiDAR and SAR Data <b>2005</b> , 79-106		1
23	An agent-based model for flood risk warning <b>2019</b> ,		1
22	Model cascade from meteorological drivers to river flood hazard: flood-cascade v1.0. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 4865-4890	6.3	1
21	Hydraulic Model Calibration Using CryoSat-2 Observations in the Zambezi Catchment. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR029261	5.4	1



20	Integrating remote sensing observations of flood hydrology and hydraulic modelling		1
19	Modelling the spatial variability in floodplain soil contamination during flood events to improve chemical mass balance estimates <b>1998</b> , 12, 1233		1
18	Floods and Storms Practical Exercises <b>2015</b> , 213-229		0
17	From Precipitation to Damage. <i>Geophysical Monograph Series</i> , <b>2018</b> , 169-183	1.1	0
16	Flood Hazard Mapping for the Humanitarian Sector. <i>Geophysical Monograph Series</i> , <b>2018</b> , 115-130	1.1	0
15	Discussion: Modelling the hydraulics of the Carlisle 2005 flood event. <i>Water Management</i> , <b>2011</b> , 164, 103-103	1	0
14	Local-inertial shallow water model on unstructured triangular grids. <i>Advances in Water Resources</i> , <b>2021</b> , 152, 103930	4.7	0
13	Site Selection, Design, and Implementation of a Sediment Sampling Program on the Kasai River, a Major Tributary of the Congo River. <i>Geophysical Monograph Series</i> , <b>2022</b> , 427-446	1.1	0
12	Towards a Framework of Catchment Classification for Hydrologic Predictions and Water Resources Management in the Ungauged Basin of the Congo River. <i>Geophysical Monograph Series</i> , <b>2022</b> , 469-498	1.1	0
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10	Assessing flooding impact to riverine bridges: an integrated analysis. <i>Natural Hazards and Earth System Sciences</i> , <b>2022</b> , 22, 1559-1576	3.9	0
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8	Urban flood modelling 69-77		
7	International Journal of River Basin Management best paper prize 2010. <i>International Journal of River Basin Management</i> , <b>2011</b> , 9, 1-1	1.7	
6	Towards Risk-Based Prediction in Real-World Applications of Complex Hydraulic Models <b>2005</b> , 461-486		
5	Estimation of Bathymetry for Modeling Multi-thread Channel Hydraulics. <i>Geophysical Monograph Series</i> , <b>2022</b> , 275-293	1.1	
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3	Estimation de la bathymétrie pour la modélisation de l'hydraulique des canaux multifilaires : application au cours moyen du fleuve Congo. <i>Geophysical Monograph Series</i> , <b>2022</b> , 283-302	1.1	

- 2 Sélection du site, conception et mise en œuvre d'un programme dechantillonnage des sédiments sur le fleuve Kasai, un affluent majeur du fleuve Congo. *Geophysical Monograph Series*, **2022**, 441-462 1.1
- 1 Vers un cadre de classification des bassins versants pour les prédictions hydrologiques et la gestion des ressources en eau dans le bassin non jaugé du fleuve Congo : une approche a priori. *Geophysical Monograph Series*, **2022**, 485-515 1.1