

A physically based description of floodplain inundation model

Water Resources Research

47,

DOI: [10.1029/2010wr009726](https://doi.org/10.1029/2010wr009726)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Characterization of terrestrial water dynamics in the Congo Basin using GRACE and satellite radar altimetry. <i>Remote Sensing of Environment</i> , 2011, 115, 3530-3538.	11.0	128
2	Toward global-scale data assimilation using SWOT: Requirements for global hydrodynamics models. , 2011, , .		3
3	The Hydrological Modeling and Analysis Platform (HyMAP): Evaluation in the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2012, 13, 1641-1665.	1.9	111
4	Rainfallâ€“runoffâ€“inundation analysis of the 2010 Pakistan flood in the Kabul River basin. <i>Hydrological Sciences Journal</i> , 2012, 57, 298-312.	2.6	227
5	RAINFALL-RUNOFF-INUNDATION ANALYSIS OF PAKISTAN FLOOD 2010 FOR THE ENTIRE INDUS RIVER BASIN. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2012, 68, I_493-I_498.	0.1	0
6	On the sources of hydrological prediction uncertainty in the Amazon. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3127-3137.	4.9	53
8	The role of groundwater in the Amazon water cycle: 1. Influence on seasonal streamflow, flooding and wetlands. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	113
9	The role of groundwater in the Amazon water cycle: 2. Influence on seasonal soil moisture and evapotranspiration. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	71
10	Analysis of the water level dynamics simulated by a global river model: A case study in the Amazon River. <i>Water Resources Research</i> , 2012, 48, .	4.2	94
11	A subgrid channel model for simulating river hydraulics and floodplain inundation over large and data sparse areas. <i>Water Resources Research</i> , 2012, 48, .	4.2	339
12	Deriving global flood hazard maps of fluvial floods through a physical model cascade. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4143-4156.	4.9	175
14	Discharge simulation in the sub-basins of the Amazon using ORCHIDEE forced by new datasets. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 911-935.	4.9	87
15	Integrating remote sensing data with flood inundation models: how far have we got?. <i>Hydrological Processes</i> , 2012, 26, 2515-2521.	2.6	149
16	Adjustment of a spaceborne DEM for use in floodplain hydrodynamic modeling. <i>Journal of Hydrology</i> , 2012, 436-437, 81-91.	5.4	107
17	Validation of a full hydrodynamic model for largeâ€“scale hydrologic modelling in the Amazon. <i>Hydrological Processes</i> , 2013, 27, 333-346.	2.6	84
18	Global river hydrography and network routing: baseline data and new approaches to study the world's large river systems. <i>Hydrological Processes</i> , 2013, 27, 2171-2186.	2.6	871
19	A Physically Based Runoff Routing Model for Land Surface and Earth System Models. <i>Journal of Hydrometeorology</i> , 2013, 14, 808-828.	1.9	187
20	The role of groundwater in the Amazon water cycle: 3. Influence on terrestrial water storage computations and comparison with GRACE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3233-3244.	3.3	83

#	ARTICLE	IF	CITATIONS
21	A first large-scale flood inundation forecasting model. <i>Water Resources Research</i> , 2013, 49, 6248-6257.	4.2	150
22	Surface freshwater storage and variability in the Amazon basin from multi-satellite observations, 1993-2007. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,951.	3.3	47
23	A review of continental scale hydrological models and their suitability for drought forecasting in (sub-Saharan) Africa. <i>Physics and Chemistry of the Earth</i> , 2013, 66, 16-26.	2.9	67
24	Storage-based approaches to build floodplain inundation modelling capability in river system models for water resources planning and accounting. <i>Journal of Hydrology</i> , 2013, 504, 12-28.	5.4	30
25	Mapping large-scale river flow hydraulics in the Amazon Basin. <i>Water Resources Research</i> , 2013, 49, 2437-2445.	4.2	19
26	Large-scale hydrologic and hydrodynamic modeling of the Amazon River basin. <i>Water Resources Research</i> , 2013, 49, 1226-1243.	4.2	302
27	Global flood risk under climate change. <i>Nature Climate Change</i> , 2013, 3, 816-821.	18.8	1,892
28	Future changes in precipitation and impacts on extreme streamflow over Amazonian sub-basins. <i>Environmental Research Letters</i> , 2013, 8, 014035.	5.2	64
29	Estimation of glacier mass changes using GRACE satellite and numerical models. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2013, 69, 1_53-1_59.	0.1	0
30	Detailed data is welcome, but with a pinch of salt: Accuracy, precision, and uncertainty in flood inundation modeling. <i>Water Resources Research</i> , 2013, 49, 6079-6085.	4.2	134
31	Automatic parameterization of a flow routing scheme driven by radar altimetry data: Evaluation in the Amazon basin. <i>Water Resources Research</i> , 2013, 49, 614-629.	4.2	46
32	Hydraulic characterization of the middle reach of the Congo River. <i>Water Resources Research</i> , 2013, 49, 5059-5070.	4.2	86
33	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> , 2013, 49, 7221-7235.	4.2	155
34	Assimilating in situ and radar altimetry data into a large-scale hydrologic-hydrodynamic model for streamflow forecast in the Amazon. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2929-2946.	4.9	77
35	Nutrient dynamics, transfer and retention along the aquatic continuum from land to ocean: towards integration of ecological and biogeochemical models. <i>Biogeosciences</i> , 2013, 10, 1-22.	3.3	177
36	A framework for global river flood risk assessments. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1871-1892.	4.9	327
37	Disinformative data in large-scale hydrological modelling. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2845-2857.	4.9	83
38	GloFAS - global ensemble streamflow forecasting and flood early warning. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1161-1175.	4.9	388

#	ARTICLE	IF	CITATIONS
39	Estimating water discharge from large radar altimetry datasets. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 923-933.	4.9	56
40	A quasi-real-time hydrological simulation of the Chao Phraya River using meteorological data from the Thai Meteorological Department Automatic Weather Stations. <i>Hydrological Research Letters</i> , 2014, 8, 9-14.	0.5	23
41	Quantifying river form variations in the Mississippi Basin using remotely sensed imagery. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4883-4895.	4.9	18
42	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 2586-2614.	1.9	66
43	Potential hydrologic changes in the Amazon by the end of the 21st century and the groundwater buffer. <i>Environmental Research Letters</i> , 2014, 9, 084004.	5.2	41
44	Global assessment of agreement among streamflow projections using CMIP5 model outputs. <i>Environmental Research Letters</i> , 2014, 9, 064017.	5.2	104
45	How important and different are tropical rivers? An overview. <i>Geomorphology</i> , 2014, 227, 5-17.	2.6	96
46	Real-time global flood estimation using satellite-based precipitation and a coupled land surface and routing model. <i>Water Resources Research</i> , 2014, 50, 2693-2717.	4.2	271
47	Mapping spatio-temporal flood inundation dynamics at large river basin scale using time-series flow data and MODIS imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 26, 350-362.	2.8	126
48	Regional flood inundation nowcast using hybrid SOM and dynamic neural networks. <i>Journal of Hydrology</i> , 2014, 519, 476-489.	5.4	85
49	Megaflood analysis through channel networks of the Athabasca Valles, Mars based on multi-resolution stereo DTMs and 2D hydrodynamic modeling. <i>Planetary and Space Science</i> , 2014, 99, 55-69.	1.7	6
50	Global suspended sediment and water discharge dynamics between 1960 and 2010: Continental trends and intra-basin sensitivity. <i>Global and Planetary Change</i> , 2014, 115, 44-58.	3.5	135
51	Regional flood dynamics in a bifurcating mega delta simulated in a global river model. <i>Geophysical Research Letters</i> , 2014, 41, 3127-3135.	4.0	78
53	DEVELOPMENT OF A GLOBAL FLOOD AFFECTED POPULATION REAL-TIME CALCULATION SYSTEM WITH A LAND SURFACE-FLOOD INUNDATION MODEL. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic)</i> Tj ETQq1 1 0.784314 rgBT /Overlo	0.784314	0
54	Assessing the impacts of reservoir operation to floodplain inundation by combining hydrological, reservoir management, and hydrodynamic models. <i>Water Resources Research</i> , 2014, 50, 7245-7266.	4.2	106
55	Hydrologic routing using nonlinear cascaded reservoirs. <i>Water Resources Research</i> , 2014, 50, 7000-7019.	4.2	13
56	Development of the Global Width Database for Large Rivers. <i>Water Resources Research</i> , 2014, 50, 3467-3480.	4.2	190
57	Human-impacted waters: New perspectives from global high-resolution monitoring. <i>Water Resources Research</i> , 2015, 51, 7064-7079.	4.2	55

#	ARTICLE	IF	CITATIONS
58	A high-resolution global flood hazard model. <i>Water Resources Research</i> , 2015, 51, 7358-7381.	4.2	353
59	Modeling complex flow dynamics of fluvial floods exacerbated by sea level rise in the Gangesâ€“Brahmaputraâ€“Meghna Delta. <i>Environmental Research Letters</i> , 2015, 10, 124011.	5.2	40
60	Forecasting the response of Earth's surface to future climatic and land use changes: A review of methods and research needs. <i>Earth's Future</i> , 2015, 3, 220-251.	6.3	98
61	Improving the representation of hydrologic processes in Earth System Models. <i>Water Resources Research</i> , 2015, 51, 5929-5956.	4.2	366
62	Rapid and Stable Flood Inundation Modelling Using the Local Inertial Equation. <i>Suimon Mizu Shigen Gakkaishi</i> , 2015, 28, 124-130.	0.1	6
63	GLACIER MELT RESPONSE AND ANNUAL HYDROLOGICAL IMPACT THROUGHOUT TWENTY-FIRST CENTURY FOR MAJOR RIVER BASINS ORIGINATING IN HIGH MOUNTAIN ASIA. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2015, 71, L_445-l_450.	0.1	0
64	A hydrologic routing model suitable for climateâ€“scale simulations of arctic rivers: application to the Mackenzie River Basin. <i>Hydrological Processes</i> , 2015, 29, 2751-2768.	2.6	14
65	Sensitivity of a Floodplain Hydrodynamic Model to Satellite-Based DEM Scale and Accuracy: Case Studyâ€“The Atchafalaya Basin. <i>Remote Sensing</i> , 2015, 7, 7938-7958.	4.0	16
66	Flood Hazard Mapping Combining Hydrodynamic Modeling and Multi Annual Remote Sensing data. <i>Remote Sensing</i> , 2015, 7, 14200-14226.	4.0	47
67	On the Use of Global Flood Forecasts and Satellite-Derived Inundation Maps for Flood Monitoring in Data-Sparse Regions. <i>Remote Sensing</i> , 2015, 7, 15702-15728.	4.0	77
68	Enhanced fixed-size parallel speedup with the Muskingum method using a trans-boundary approach and a large subbasins approximation. <i>Water Resources Research</i> , 2015, 51, 7547-7571.	4.2	19
69	Correction of Interferometric and Vegetation Biases in the SRTMGL1 Spaceborne DEM with Hydrological Conditioning towards Improved Hydrodynamics Modeling in the Amazon Basin. <i>Remote Sensing</i> , 2015, 7, 16108-16130.	4.0	21
70	Development of a Large-Scale Routing Model with Scale Independent by Considering the Damping Effect of Sub-Basins. <i>Water Resources Management</i> , 2015, 29, 5237-5253.	3.9	10
71	Regional flood frequency analysis at the global scale. <i>Water Resources Research</i> , 2015, 51, 539-553.	4.2	129
72	Changing global patterns of urban exposure to flood and drought hazards. <i>Global Environmental Change</i> , 2015, 31, 217-225.	7.8	346
73	Evaluating Global Streamflow Simulations by a Physically Based Routing Model Coupled with the Community Land Model. <i>Journal of Hydrometeorology</i> , 2015, 16, 948-971.	1.9	81
74	Development and evaluation of a new regional coupled atmosphereâ€“ocean model in the North Sea and Baltic Sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 24284.	1.7	45
75	Efficient incorporation of channel cross-section geometry uncertainty into regional and global scale flood inundation models. <i>Journal of Hydrology</i> , 2015, 529, 169-183.	5.4	76

#	ARTICLE	IF	CITATIONS
76	Fast terrain modelling for hydrogeological risk mapping and emergency management: the contribution of high-resolution satellite SAR imagery. <i>Geomatics, Natural Hazards and Risk</i> , 2015, 6, 554-582.	4.3	11
77	Satellite-derived surface and sub-surface water storage in the Gangesâ€“Brahmaputra River Basin. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 15-35.	2.4	56
78	Implementation of a Hydraulic Routing Model for Dendritic Networks with Offline Coupling to a Distributed Hydrological Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	7
79	Global hydrology 2015: State, trends, and directions. <i>Water Resources Research</i> , 2015, 51, 4923-4947.	4.2	267
80	Measuring and Mapping Flood Processes. , 2015, , 35-64.		6
81	Modeling 25Âyears of spatio-temporal surface water and inundation dynamics on large river basin scale using time series of Earth observation data. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2227-2250.	4.9	34
82	mizuRoute version 1: a river network routing tool for a continental domain water resources applications. <i>Geoscientific Model Development</i> , 2016, 9, 2223-2238.	3.6	42
83	HYPERstream: a multi-scale framework for streamflow routing in large-scale hydrological model. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2047-2061.	4.9	17
84	High-Accuracy Elevation Data at Large Scales from Airborne Single-Pass SAR Interferometry. <i>Frontiers in Earth Science</i> , 2016, 3, .	1.8	14
85	Flood evolution assessment and monitoring using hydrological modelling techniques: analysis of the inundation areas at a regional scale. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 39, 012043.	0.3	1
86	The credibility challenge for global fluvial flood risk analysis. <i>Environmental Research Letters</i> , 2016, 11, 094014.	5.2	139
87	Role of Earth Observation Data in Disaster Response and Recovery: From Science to Capacity Building. <i>Springer Remote Sensing/photogrammetry</i> , 2016, , 119-146.	0.4	9
88	Integrating Runoff Generation and Flow Routing in Susquehanna River Basin to Characterize Key Hydrologic Processes Contributing to Maximum Annual Flood Events. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, 04016026.	1.9	13
89	The SWOT Mission and Its Capabilities for Land Hydrology. <i>Space Sciences Series of ISSI</i> , 2016, , 117-147.	0.0	51
90	Temporal Variance-Based Sensitivity Analysis of the River-Routing Component of the Large-Scale Hydrological Model ISBAâ€“TRIP: Application on the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2016, 17, 3007-3027.	1.9	11
92	Probabilistic Flood Mapping Using Synthetic Aperture Radar Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6958-6969.	6.3	104
93	On river-floodplain interaction and hydrograph skewness. <i>Water Resources Research</i> , 2016, 52, 7615-7630.	4.2	25
94	Rethinking flood hazard at the global scale. <i>Geophysical Research Letters</i> , 2016, 43, 10,249.	4.0	41

#	ARTICLE	IF	CITATIONS
95	Building a Multimodel Flood Prediction System with the TIGGE Archive. Journal of Hydrometeorology, 2016, 17, 2923-2940.	1.9	23
96	Implementation of satellite based fractional water cover indices in the pan-Arctic region using AMSR-E and MODIS. Remote Sensing of Environment, 2016, 184, 469-481.	11.0	23
97	A large-scale methane model by incorporating the surface water transport. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1657-1674.	3.0	9
98	Aquatic Ecosystems. Ecological Studies, 2016, , 119-148.	1.2	25
99	Global-scale river flood vulnerability in the last 50 years. Scientific Reports, 2016, 6, 36021.	3.3	226
100	THE SPATIAL RESOLUTION IMPROVEMENT OF GLOBAL WATER BODY MAP USING MULTI-TEMPORAL LANDSAT DATA. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2016, 72, I_421-I_426.	0.1	1
101	A decade of RAPID—Reflections on the development of an open source geoscience code. Earth and Space Science, 2016, 3, 226-244.	2.6	31
102	AN EVENT ATTRIBUTION OF THE 2012 AMAZON FLOOD. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2016, 72, I_1-I_6.	0.1	0
103	Report on 2016 Annual Conference of the Global Flood Partnership. Suimon Mizu Shigen Gakkaishi, 2016, 29, 380-385.	0.1	0
104	IMPACT ASSESSMENT OF HIGH RESOLUTION RIVER INUNDATION PROCESSES IN A CLIMATE MODEL. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2016, 72, I_115-I_120.	0.1	0
105	Development and evaluation of a framework for global flood hazard mapping. Advances in Water Resources, 2016, 94, 87-102.	3.8	242
106	The spatial exposure of the Chinese infrastructure system to flooding and drought hazards. Natural Hazards, 2016, 80, 1083-1118.	3.4	23
107	Continuous, large-scale simulation model for flood risk assessments: proof-of-concept. Journal of Flood Risk Management, 2016, 9, 3-21.	3.3	82
108	Projections of climate change effects on discharge and inundation in the Amazon basin. Climatic Change, 2016, 136, 555-570.	3.6	147
109	The SWOT Mission and Its Capabilities for Land Hydrology. Surveys in Geophysics, 2016, 37, 307-337.	4.6	333
110	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	21
111	An emergency response-type rainfall-runoff-inundation simulation for 2011 Thailand floods. Journal of Flood Risk Management, 2017, 10, 65-78.	3.3	48
112	Modeling multidecadal surface water inundation dynamics and key drivers on large river basin scale using multiple time series of satellite observation and river flow data. Water Resources Research, 2017, 53, 1251-1269.	4.2	41

#	ARTICLE	IF	CITATIONS
113	Development and application of a large scale river system model for National Water Accounting in Australia. <i>Journal of Hydrology</i> , 2017, 547, 124-142.	5.4	14
114	The effects of spatial resolution and dimensionality on modeling regional-scale hydraulics in a multichannel river. <i>Water Resources Research</i> , 2017, 53, 1683-1701.	4.2	37
115	Flood inundation modelling: A review of methods, recent advances and uncertainty analysis. <i>Environmental Modelling and Software</i> , 2017, 90, 201-216.	4.5	736
116	An integrated two-stage support vector machine approach to forecast inundation maps during typhoons. <i>Journal of Hydrology</i> , 2017, 547, 236-252.	5.4	48
117	Detailed spatiotemporal impacts of El Niño on phytoplankton biomass in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2709-2723.	2.6	8
118	Trade-off between cost and accuracy in large-scale surface water dynamic modeling. <i>Water Resources Research</i> , 2017, 53, 4942-4955.	4.2	44
119	MGB-IPH model for hydrological and hydraulic simulation of large floodplain river systems coupled with open source GIS. <i>Environmental Modelling and Software</i> , 2017, 94, 1-20.	4.5	112
120	Impact assessment of upstream flooding on extreme flood frequency analysis by incorporating a flood-inundation model for flood risk assessment. <i>Journal of Hydrology</i> , 2017, 554, 370-382.	5.4	50
121	Can Atmospheric Reanalysis Data Sets Be Used to Reproduce Flooding Over Large Scales?. <i>Geophysical Research Letters</i> , 2017, 44, 10,369.	4.0	16
122	Compound simulation of fluvial floods and storm surges in a global coupled river-coast flood model: Model development and its application to 2007 cyclone strike in Bangladesh. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1847-1862.	3.8	102
123	Global Floods and Water Availability Driven by Atmospheric Rivers. <i>Geophysical Research Letters</i> , 2017, 44, 10,387.	4.0	102
124	Upper Blue Nile basin water budget from a multi-model perspective. <i>Journal of Hydrology</i> , 2017, 555, 535-546.	5.4	39
125	The critical role of the routing scheme in simulating peak river discharge in global hydrological models. <i>Environmental Research Letters</i> , 2017, 12, 075003.	5.2	105
126	A global framework for future costs and benefits of river-flood protection in urban areas. <i>Nature Climate Change</i> , 2017, 7, 642-646.	18.8	231
127	Complex picture for likelihood of ENSO-driven flood hazard. <i>Nature Communications</i> , 2017, 8, 14796.	12.8	91
128	Satellite- and Reanalysis-Based Mass Balance Estimates of Global Continental Discharge (1993-2015). <i>Journal of Climate</i> , 2017, 30, 8481-8495.	3.2	17
129	Grid size effects analysis and hydrological similarity of surface runoff in flatland basins. <i>Hydrological Sciences Journal</i> , 2017, 62, 1736-1754.	2.6	8
130	Continental-Scale River Flow Modeling of the Mississippi River Basin Using High-Resolution NHDPlus Dataset. <i>Journal of the American Water Resources Association</i> , 2017, 53, 258-279.	2.4	44

#	ARTICLE	IF	CITATIONS
131	Refining a Distributed Linear Reservoir Routing Method to Improve Performance of the CREST Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	1.9	44
132	Projected climate change impacts on the operation of power engineering facilities in Russia. <i>Russian Meteorology and Hydrology</i> , 2017, 42, 775-782.	1.3	6
133	Modeling surface water dynamics in the Amazon Basin using MOSART-Inundation v1.0: impacts of geomorphological parameters and river flow representation. <i>Geoscientific Model Development</i> , 2017, 10, 1233-1259.	3.6	48
134	Estimating Daily Global Evapotranspiration Using Penman's Monteith Equation and Remotely Sensed Land Surface Temperature. <i>Remote Sensing</i> , 2017, 9, 1138.	4.0	36
135	Fifteen Years (1993-2007) of Surface Freshwater Storage Variability in the Ganges-Brahmaputra River Basin Using Multi-Satellite Observations. <i>Water (Switzerland)</i> , 2017, 9, 245.	2.7	14
136	Evaluation of the Common Land Model (CoLM) from the Perspective of Water and Energy Budget Simulation: Towards Inclusion in CMIP6. <i>Atmosphere</i> , 2017, 8, 141.	2.3	18
137	Interdisciplinary Perspective of Surface Water Flow Numerical Analysis. <i>Suimon Mizu Shigen Gakkaishi</i> , 2017, 30, 307-334.	0.1	3
138	Technical note: A hydrological routing scheme for the Ecosystem Demography model (ED2+R) tested in the Tapaj's River basin in the Brazilian Amazon. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4629-4648.	4.9	12
139	The challenge of forecasting impacts of flash floods: test of a simplified hydraulic approach and validation based on insurance claim data. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5911-5928.	4.9	29
140	GLOFRIM v1.0 - A globally applicable computational framework for integrated hydrological-hydrodynamic modelling. <i>Geoscientific Model Development</i> , 2017, 10, 3913-3929.	3.6	31
141	Assessing the impact of hydrodynamics on large-scale flood wave propagation - a case study for the Amazon Basin. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 117-132.	4.9	26
142	Impacts of spatial resolution and representation of flow connectivity on large-scale simulation of floods. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5143-5163.	4.9	32
143	APPLICATION OF DATA ASSIMILATION FOR A GLOBAL RIVER MODEL: A VIRTUAL EXPERIMENT AT THE AMAZON BASIN. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2017, 73, 1_175-1_180.	0.1	2
144	Modelling hydrologic and hydrodynamic processes in basins with large semi-arid wetlands. <i>Journal of Hydrology</i> , 2018, 561, 943-959.	5.4	58
145	A global network for operational flood risk reduction. <i>Environmental Science and Policy</i> , 2018, 84, 149-158.	4.9	89
146	Rising tides, rising gates: The complex ecogeomorphic response of coastal wetlands to sea-level rise and human interventions. <i>Advances in Water Resources</i> , 2018, 114, 135-148.	3.8	43
147	Quantifying the effect of autonomous adaptation to global river flood projections: application to future flood risk assessments. <i>Environmental Research Letters</i> , 2018, 13, 014006.	5.2	27
148	Hydrometeorology as an Inversion Problem: Can River Discharge Observations Improve the Atmosphere by Ensemble Data Assimilation?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 848-860.	3.3	13

#	ARTICLE	IF	CITATIONS
149	Adaptation required to preserve future high-end river flood risk at present levels. <i>Science Advances</i> , 2018, 4, eaao1914.	10.3	97
150	A dataset of continental river discharge based on JRA-55 for use in a global ocean circulation model. <i>Journal of Oceanography</i> , 2018, 74, 421-429.	1.7	35
151	Global Estimates of River Flow Wave Travel Times and Implications for Low-Latency Satellite Data. <i>Geophysical Research Letters</i> , 2018, 45, 7551-7560.	4.0	39
152	Future changes in peak river flows across northern Eurasia as inferred from an ensemble of regional climate projections under the IPCC RCP8.5 scenario. <i>Climate Dynamics</i> , 2018, 50, 215-230.	3.8	49
153	Future Changes in Flood Hazards across Canada under a Changing Climate. <i>Water (Switzerland)</i> , 2018, 10, 1441.	2.7	30
154	Global streamflow and flood response to stratospheric aerosol geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16033-16050.	4.9	13
155	ORCHIDEE-ROUTING: revising the river routing scheme using a high-resolution hydrological database. <i>Geoscientific Model Development</i> , 2018, 11, 4965-4985.	3.6	16
156	Going local: Evaluating and regionalizing a global hydrological model's simulation of river flows in a medium-sized East African basin. <i>Journal of Hydrology: Regional Studies</i> , 2018, 19, 349-364.	2.4	13
157	Flood Prediction Using Machine Learning Models: Literature Review. <i>Water (Switzerland)</i> , 2018, 10, 1536.	2.7	692
158	Potential Disruption of Flood Dynamics in the Lower Mekong River Basin Due to Upstream Flow Regulation. <i>Scientific Reports</i> , 2018, 8, 17767.	3.3	71
159	Plant Physiological Responses to Rising CO ₂ Modify Simulated Daily Runoff Intensity With Implications for Global-scale Flood Risk Assessment. <i>Geophysical Research Letters</i> , 2018, 45, 12,457.	4.0	23
160	Toward continental hydrologic-hydrodynamic modeling in South America. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4815-4842.	4.9	107
161	Variations in parameters of extreme value distributions of water level along the eastern Baltic Sea coast. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 215, 59-68.	2.1	9
162	The effect of climate type on timescales of drought propagation in an ensemble of global hydrological models. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4649-4665.	4.9	70
163	A first collective validation of global fluvial flood models for major floods in Nigeria and Mozambique. <i>Environmental Research Letters</i> , 2018, 13, 104007.	5.2	66
164	Large-scale rainfall-runoff-inundation modeling for upper Citarum River watershed, Indonesia. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	7
165	Evaluation of Freshwater Flow From Rivers to the Sea in CMIP5 Simulations: Insights From the Congo River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,278.	3.3	9
166	Global economic response to river floods. <i>Nature Climate Change</i> , 2018, 8, 594-598.	18.8	141

#	ARTICLE	IF	CITATIONS
167	Optimisation of the two-dimensional hydraulic model LISFOOD-FP for CPU architecture. <i>Environmental Modelling and Software</i> , 2018, 107, 148-157.	4.5	43
168	Increasing Methane Emissions From Natural Land Ecosystems due to Sea-Level Rise. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1756-1768.	3.0	9
169	Large-scale hydrological model river storage and discharge correction using a satellite altimetry-based discharge product. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2135-2162.	4.9	37
170	CYGNSS data map flood inundation during the 2017 Atlantic hurricane season. <i>Scientific Reports</i> , 2018, 8, 9336.	3.3	112
171	Dependence between high sea-level and high river discharge increases flood hazard in global deltas and estuaries. <i>Environmental Research Letters</i> , 2018, 13, 084012.	5.2	152
172	Estimation of Water Level Changes of Large-Scale Amazon Wetlands Using ALOS2 ScanSAR Differential Interferometry. <i>Remote Sensing</i> , 2018, 10, 966.	4.0	23
173	Assessing global surface water inundation dynamics using combined satellite information from SMAP, AMSR2 and Landsat. <i>Remote Sensing of Environment</i> , 2018, 213, 1-17.	11.0	51
174	Locating flood embankments using SAR time series: A proof of concept. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 70, 72-83.	2.8	12
175	Evolution of river-routing schemes in macro-scale models and their potential for watershed management. <i>Hydrological Sciences Journal</i> , 2018, 63, 1062-1077.	2.6	8
176	Increased human and economic losses from river flooding with anthropogenic warming. <i>Nature Climate Change</i> , 2018, 8, 781-786.	18.8	380
177	Long-Term Changes in Global Socioeconomic Benefits of Flood Defenses and Residual Risk Based on CMIP5 Climate Models. <i>Earth's Future</i> , 2018, 6, 938-954.	6.3	22
178	A first integrated modelling of a river-lagoon large-scale hydrological system for forecasting purposes. <i>Journal of Hydrology</i> , 2018, 565, 177-196.	5.4	24
179	Multi-Model Projections of River Flood Risk in Europe under Global Warming. <i>Climate</i> , 2018, 6, 6.	2.8	94
185	Assimilation of Satellite Altimetry Data for Effective River Bathymetry. <i>Water Resources Research</i> , 2019, 55, 7441-7463.	4.2	39
186	Flood Risk Assessment of Global Watersheds Based on Multiple Machine Learning Models. <i>Water (Switzerland)</i> , 2019, 11, 1654.	2.7	49
187	River Discharge Estimation based on Satellite Water Extent and Topography: An Application over the Amazon. <i>Journal of Hydrometeorology</i> , 2019, 20, 1851-1866.	1.9	9
188	Recent Changes in the ISBA-CTRIP Land Surface System for Use in the CNRM-CM6 Climate Model and in Global Offline Hydrological Applications. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1207-1252.	3.8	120
189	Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. <i>Water Resources Research</i> , 2019, 55, 6499-6516.	4.2	175

#	ARTICLE	IF	CITATIONS
190	The multiscale routing model mRM v1.0: simple river routing at resolutions from 1 to 50 km. <i>Geoscientific Model Development</i> , 2019, 12, 2501-2521.	3.6	38
191	Multi-decadal hydrologic change and variability in the Amazon River basin: understanding terrestrial water storage variations and drought characteristics. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2841-2862.	4.9	48
192	Assessing the performance of global hydrological models for capturing peak river flows in the Amazon basin. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3057-3080.	4.9	79
193	Evaluation and machine learning improvement of global hydrological model-based flood simulations. <i>Environmental Research Letters</i> , 2019, 14, 114027.	5.2	88
194	How Well Do Operational Numerical Weather Prediction Configurations Represent Hydrology?. <i>Journal of Hydrometeorology</i> , 2019, 20, 1533-1552.	1.9	22
195	A Novel Approach for the Integral Management of Water Extremes in Plain Areas. <i>Hydrology</i> , 2019, 6, 70.	3.0	4
196	A New Automated Method for Improved Flood Defense Representation in Large-Scale Hydraulic Models. <i>Water Resources Research</i> , 2019, 55, 11007-11034.	4.2	42
197	Flood Inundation Generation Mechanisms and Their Changes in 1953–2004 in Global Major River Basins. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11672-11692.	3.3	18
198	The effect of plant physiological responses to rising CO ₂ on global streamflow. <i>Nature Climate Change</i> , 2019, 9, 873-879.	18.8	32
199	In Quest of Calibration Density and Consistency in Hydrologic Modeling: Distributed Parameter Calibration against Streamflow Characteristics. <i>Water Resources Research</i> , 2019, 55, 7784-7803.	4.2	44
200	Assessing flood risk in Baiyangdian Lake area in a changing climate using an integrated hydrological-hydrodynamic modelling. <i>Hydrological Sciences Journal</i> , 2019, 64, 2006-2014.	2.6	14
201	River channel conveyance capacity adjusts to modes of climate variability. <i>Scientific Reports</i> , 2019, 9, 12619.	3.3	37
202	The role of a seasonal lake groups in the complex Poyang Lake-floodplain system (China): Insights into hydrological behaviors. <i>Journal of Hydrology</i> , 2019, 578, 124055.	5.4	31
203	Modeling the role of reservoirs versus floodplains on large-scale river hydrodynamics. <i>Natural Hazards</i> , 2019, 99, 1075-1104.	3.4	29
204	Dependence of economic impacts of climate change on anthropogenically directed pathways. <i>Nature Climate Change</i> , 2019, 9, 737-741.	18.8	49
205	Evaluating the impact of model complexity on flood wave propagation and inundation extent with a hydrologic–hydrodynamic model coupling framework. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 1723-1735.	3.6	32
206	Development of a Global River Water Temperature Model Considering Fluvial Dynamics and Seasonal Freeze–Thaw Cycle. <i>Water Resources Research</i> , 2019, 55, 1366-1383.	4.2	17
207	A coupled surface-subsurface hydrologic model to assess groundwater flood risk spatially and temporally. <i>Environmental Modelling and Software</i> , 2019, 114, 129-139.	4.5	31

#	ARTICLE	IF	CITATIONS
208	Flooding Related Consequences of Climate Change on Canadian Cities and Flow Regulation Infrastructure. <i>Water (Switzerland)</i> , 2019, 11, 63.	2.7	14
209	Surface Heat Budget over the North Sea in Climate Change Simulations. <i>Atmosphere</i> , 2019, 10, 272.	2.3	28
210	Challenges, Opportunities, and Pitfalls for Global Coupled Hydrologic-Hydraulic Modeling of Floods. <i>Water Resources Research</i> , 2019, 55, 5277-5300.	4.2	52
211	Inundation Extent Mapping by Synthetic Aperture Radar: A Review. <i>Remote Sensing</i> , 2019, 11, 879.	4.0	153
212	Analytical Propagation of Runoff Uncertainty Into Discharge Uncertainty Through a Large River Network. <i>Geophysical Research Letters</i> , 2019, 46, 8102-8113.	4.0	13
213	Seasonal Flooding Causes Intensification of the River Breeze in the Central Amazon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5178-5197.	3.3	10
214	Rapid Mapping of Small-Scale River-Floodplain Environments Using UAV SfM Supports Classical Theory. <i>Remote Sensing</i> , 2019, 11, 982.	4.0	30
215	A Physically Based Empirical Localization Method for Assimilating Synthetic SWOT Observations of a Continental-Scale River: A Case Study in the Congo Basin. <i>Water (Switzerland)</i> , 2019, 11, 829.	2.7	16
216	Local floods induce large-scale abrupt failures of road networks. <i>Nature Communications</i> , 2019, 10, 2114.	12.8	69
217	New estimates of flood exposure in developing countries using high-resolution population data. <i>Nature Communications</i> , 2019, 10, 1814.	12.8	128
218	Exploring the Potential of Satellite Solar-Induced Fluorescence to Constrain Global Transpiration Estimates. <i>Remote Sensing</i> , 2019, 11, 413.	4.0	34
219	An automatic domain updating method for fast 2-dimensional flood-inundation modelling. <i>Environmental Modelling and Software</i> , 2019, 116, 110-118.	4.5	12
220	Advancing global flood hazard simulations by improving comparability, benchmarking, and integration of global flood models. <i>Environmental Research Letters</i> , 2019, 14, 034001.	5.2	29
221	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019, 55, 1737-1772.	4.2	281
222	The Spatial Dependence of Flood Hazard and Risk in the United States. <i>Water Resources Research</i> , 2019, 55, 1890-1911.	4.2	72
223	Can regional to continental river hydrodynamic models be locally relevant? A cross-scale comparison. <i>Journal of Hydrology X</i> , 2019, 3, 100027.	1.6	56
224	WAYS v1: a hydrological model for root zone water storage simulation on a global scale. <i>Geoscientific Model Development</i> , 2019, 12, 5267-5289.	3.6	13
225	Mapping Forested Floodplain Topography Using InSAR and Radar Altimetry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 5189-5198.	4.9	7

#	ARTICLE	IF	CITATIONS
226	Integrating Water Observation from Space Product and Time-Series Flow Data for Modeling Spatio-Temporal Flood Inundation Dynamics. <i>Remote Sensing</i> , 2019, 11, 2535.	4.0	1
227	High-Resolution Modeling of Reservoir Release and Storage Dynamics at the Continental Scale. <i>Water Resources Research</i> , 2019, 55, 787-810.	4.2	71
228	Near-real-time non-obstructed flood inundation mapping using synthetic aperture radar. <i>Remote Sensing of Environment</i> , 2019, 221, 302-315.	11.0	103
229	Streamflow, stomata, and soil pits: Sources of inference for complex models with fast, robust uncertainty quantification. <i>Advances in Water Resources</i> , 2019, 125, 13-31.	3.8	19
230	Skill of ensemble flood inundation forecasts at short- to medium-range timescales. <i>Journal of Hydrology</i> , 2019, 568, 207-220.	5.4	23
231	A toolbox to quickly prepare flood inundation models for LISFLOOD-FP simulations. <i>Environmental Modelling and Software</i> , 2020, 123, 104561.	4.5	29
232	Flooding Dynamics Within an Amazonian Floodplain: Water Circulation Patterns and Inundation Duration. <i>Water Resources Research</i> , 2020, 56, e2019WR026081.	4.2	19
233	A global streamflow reanalysis for 1980–2018. <i>Journal of Hydrology X</i> , 2020, 6, 100049.	1.6	61
234	Hydrologic changes, dam construction, and the shift in dietary protein in the Lower Mekong River Basin. <i>Journal of Hydrology</i> , 2020, 581, 124454.	5.4	14
235	A global-scale analysis of water storage dynamics of inland wetlands: Quantifying the impacts of human water use and man-made reservoirs as well as the unavoidable and avoidable impacts of climate change. <i>Ecohydrology</i> , 2020, 13, e2175.	2.4	10
236	Integrating Lateral Inflows Into a SWOT Mission River Discharge Algorithm. <i>Water Resources Research</i> , 2020, 56, e2019WR026589.	4.2	10
237	Assimilation of future SWOT-based river elevations, surface extent observations and discharge estimations into uncertain global hydrological models. <i>Journal of Hydrology</i> , 2020, 590, 125473.	5.4	28
238	Toward Global Stochastic River Flood Modeling. <i>Water Resources Research</i> , 2020, 56, e2020WR027692.	4.2	15
239	Projecting Exposure to Extreme Climate Impact Events Across Six Event Categories and Three Spatial Scales. <i>Earth's Future</i> , 2020, 8, e2020EF001616.	6.3	69
240	A deep convolutional neural network model for rapid prediction of fluvial flood inundation. <i>Journal of Hydrology</i> , 2020, 590, 125481.	5.4	126
241	Incorporating hydrology into climate suitability models changes projections of malaria transmission in Africa. <i>Nature Communications</i> , 2020, 11, 4353.	12.8	17
242	Automated Processing for Flood Area Detection Using ALOS-2 and Hydrodynamic Simulation Data. <i>Remote Sensing</i> , 2020, 12, 2709.	4.0	12
243	Hydrological Tracking Model for Amazon Surface Waters. <i>Water Resources Research</i> , 2020, 56, e2019WR024721.	4.2	12

#	ARTICLE	IF	CITATIONS
244	Global River Discharge and Floods in the Warmer Climate of the Last Interglacial. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089375.	4.0	18
245	Development and Verification of a Three-dimensional Variably Saturated Flow Model for Assessment of Future Global Water Resources. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002093.	3.8	4
246	Predictive Modeling of Envelope Flood Extents Using Geomorphic and Climatic Hydrologic Catchment Characteristics. <i>Water Resources Research</i> , 2020, 56, e2019WR026453.	4.2	16
247	Breaking Limits of Remote Sensing by Deep Learning From Simulated Data for Flood and Debris-Flow Mapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	6.3	17
248	A Quantitative Estimation of the Effects of Measures to Counter Climate Change on Well-Being: Focus on Non-Use of Air Conditioners as a Mitigation Measure in Japan. <i>Sustainability</i> , 2020, 12, 8694.	3.2	0
249	Real-time Flood Forecasting Based on a High-performance Hydrodynamic Model and Numerical Weather Predictions. <i>Water Resources Research</i> , 2020, 56, e2019WR025583.	4.2	103
250	Observing Rivers With Varying Spatial Scales. <i>Water Resources Research</i> , 2020, 56, e2019WR026476.	4.2	12
251	Small-scale anthropogenic changes impact floodplain hydraulics: Simulating the effects of fish canals on the Logone floodplain. <i>Journal of Hydrology</i> , 2020, 588, 125035.	5.4	12
252	Floodplain Inundation and Salinization From a Recently Restored First-order Tidal Stream. <i>Water Resources Research</i> , 2020, 56, e2019WR026850.	4.2	15
253	Identification of uncertainty sources in quasi-global discharge and inundation simulations using satellite-based precipitation products. <i>Journal of Hydrology</i> , 2020, 589, 125180.	5.4	9
254	Subwatershed-based lake and river routing products for hydrologic and land surface models applied over Canada. <i>Canadian Water Resources Journal</i> , 2020, 45, 237-251.	1.2	6
255	An Integrated Approach for Assessing the Impact of Large-scale Future Floods on a Highway Transport System. <i>Risk Analysis</i> , 2020, 40, 1780-1794.	2.7	14
256	Measuring compound flood potential from river discharge and storm surge extremes at the global scale. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 489-504.	3.6	127
257	Evaluation of Routed-Runoff from Land Surface Models and Reanalyses Using Observed Streamflow in Chinese River Basins. <i>Journal of Meteorological Research</i> , 2020, 34, 73-87.	2.4	10
258	Underlying Fundamentals of Kalman Filtering for River Network Modeling. <i>Journal of Hydrometeorology</i> , 2020, 21, 453-474.	1.9	10
259	A Global Drought and Flood Catalogue from 1950 to 2016. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E508-E535.	3.3	98
260	Assessing connectivity between the river channel and floodplains during high flows using hydrodynamic modeling and particle tracking analysis. <i>Journal of Hydrology</i> , 2020, 583, 124609.	5.4	14
261	Interferometric SAR for Wetland Hydrology: An Overview of Methods, Challenges, and Trends. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2020, 8, 120-135.	9.6	11

#	ARTICLE	IF	CITATIONS
262	The effect of surge on riverine flood hazard and impact in deltas globally. <i>Environmental Research Letters</i> , 2020, 15, 104007.	5.2	58
263	Global Estimates of Reachâ€Level Bankfull River Width Leveraging Big Data Geospatial Analysis. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086405.	4.0	37
264	Estimation of Direct and Indirect Economic Losses Caused by a Flood With Longâ€Lasting Inundation: Application to the 2011 Thailand Flood. <i>Water Resources Research</i> , 2020, 56, e2019WR026092.	4.2	37
265	High Resolution Modeling of Riverâ€Floodplainâ€Reservoir Inundation Dynamics in the Mekong River Basin. <i>Water Resources Research</i> , 2020, 56, e2019WR026449.	4.2	52
266	The Role of Realistic Channel Geometry Representation in Hydrological Model Predictions. <i>Journal of the American Water Resources Association</i> , 2021, 57, 222-240.	2.4	5
267	Explore training self-organizing map methods for clustering high-dimensional flood inundation maps. <i>Journal of Hydrology</i> , 2021, 595, 125655.	5.4	14
268	Improving flood simulation capability of the WRF-Hydro-RAPID model using a multi-source precipitation merging method. <i>Journal of Hydrology</i> , 2021, 592, 125814.	5.4	30
269	Understanding dynamics of population flood exposure in Canada with multiple high-resolution population datasets. <i>Science of the Total Environment</i> , 2021, 759, 143559.	8.0	29
270	The US COVID-19 pandemic in the flood season. <i>Science of the Total Environment</i> , 2021, 755, 142634.	8.0	13
271	Fidelity of reanalysis datasets in floodplain mapping: Investigating performance at inundation level over large regions. <i>Journal of Hydrology</i> , 2021, 597, 125757.	5.4	8
272	Combining Optical Remote Sensing, McFLI Discharge Estimation, Global Hydrologic Modeling, and Data Assimilation to Improve Daily Discharge Estimates Across an Entire Large Watershed. <i>Water Resources Research</i> , 2021, 57, e2020WR027794.	4.2	16
273	A Framework for Estimating Globalâ€Scale River Discharge by Assimilating Satellite Altimetry. <i>Water Resources Research</i> , 2021, 57, e2020WR027876.	4.2	9
274	PRODUCTION AND FUNDAMENTAL VALIDATION OF GLOBAL SURFACE WATER MAP USING MULTIPLE MICROWAVE RADIOMETERS. <i>Journal of Japan Society of Civil Engineers</i> , 2021, 9, 205-211.	0.2	0
275	River Flood Modeling and Remote Sensing Across Scales: Lessons from Brazil. , 2021, , 61-103.		4
276	On the discretization of river networks for large scale hydrologic-hydrodynamic models. <i>Revista Brasileira De Recursos Hidricos</i> , 0, 26, .	0.5	4
277	Detectability of variation in river flood from satellite images. <i>Hydrological Research Letters</i> , 2021, 15, 37-43.	0.5	0
278	â†²â†²â†²â†²â†²â†²â†²â†²â†²â†². <i>Suimon Mizu Shigen Gakkaishi</i> , 2021, 34, 9-11.	0.1	0
279	Parameter regionalization of the FLEX-Global hydrological model. <i>Science China Earth Sciences</i> , 2021, 64, 571-588.	5.2	1

#	ARTICLE	IF	CITATIONS
280	Global exposure to flooding from the new CMIP6 climate model projections. <i>Scientific Reports</i> , 2021, 11, 3740.	3.3	73
281	Quantifying the inundation impacts of earthquake-induced surface elevation change by hydrological and hydraulic modeling. <i>Scientific Reports</i> , 2021, 11, 4269.	3.3	5
282	Simulating historical flood events at the continental scale: observational validation of a large-scale hydrodynamic model. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 559-575.	3.6	21
283	Sediment Flows in South America Supported by Daily Hydrologic Hydrodynamic Modeling. <i>Water Resources Research</i> , 2021, 57, e2020WR027884.	4.2	21
284	Global warming and population change both heighten future risk of human displacement due to river floods. <i>Environmental Research Letters</i> , 2021, 16, 044026.	5.2	48
285	Amazon floodplain hydrology and implications for aquatic conservation. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 1029-1040.	2.0	26
286	Observation-Constrained Projection of Global Flood Magnitudes With Anthropogenic Warming. <i>Water Resources Research</i> , 2021, 57, e2020WR028830.	4.2	19
287	The uncertainty of flood frequency analyses in hydrodynamic model simulations. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1071-1085.	3.6	22
288	High-resolution satellite-derived river network map reveals small Arctic river hydrography. <i>Environmental Research Letters</i> , 2021, 16, 054015.	5.2	5
289	Climate-informed hydrologic modeling and policy typology to guide managed aquifer recharge. <i>Science Advances</i> , 2021, 7, .	10.3	24
290	Climate signals in river flood damages emerge under sound regional disaggregation. <i>Nature Communications</i> , 2021, 12, 2128.	12.8	26
291	An Integrative Conceptualization of Floodplain Storage. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000724.	23.0	40
292	A Global Flood Risk Modeling Framework Built With Climate Models and Machine Learning. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002221.	3.8	9
293	Potential of a SAR Small-Satellite Constellation for Rapid Monitoring of Flood Extent. <i>Remote Sensing</i> , 2021, 13, 1959.	4.0	4
294	A dual-layer MPI continuous large-scale hydrological model including Human Systems. <i>Environmental Modelling and Software</i> , 2021, 139, 105003.	4.5	24
295	Coherent Satellite Monitoring of the Water Cycle Over the Amazon. Part 2: Total Water Storage Change and River Discharge Estimation. <i>Water Resources Research</i> , 2021, 57, e2020WR028648.	4.2	3
296	Toward Improved Comparisons Between Land Surface Water Area Estimates From a Global River Model and Satellite Observations. <i>Water Resources Research</i> , 2021, 57, e2020WR029256.	4.2	9
297	Regional scale hydrodynamic modeling of the river-floodplain-reservoir continuum. <i>Journal of Hydrology</i> , 2021, 596, 126114.	5.4	20

#	ARTICLE	IF	CITATIONS
298	Riverine Carbon Cycling Over the Past Century in the Mid-Atlantic Region of the United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005968.	3.0	16
299	Uncertainty in the extreme flood magnitude estimates of large-scale flood hazard models. <i>Environmental Research Letters</i> , 2021, 16, 064013.	5.2	8
300	Modelling surface water dynamics in an Amazonian sub-basin: impacts of hydraulic geometry refinement. <i>Hydrological Sciences Journal</i> , 0, , 1-11.	2.6	1
301	Applicability of a nationwide flood forecasting system for Typhoon Hagibis 2019. <i>Scientific Reports</i> , 2021, 11, 10213.	3.3	12
302	Global mortality risk assessment from river flooding under climate change. <i>Environmental Research Letters</i> , 2021, 16, 064036.	5.2	19
303	Estimating River Channel Bathymetry in Large Scale Flood Inundation Models. <i>Water Resources Research</i> , 2021, 57, e2020WR028301.	4.2	26
304	Anthropogenic climate change has changed frequency of past flood during 2010-2013. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .	3.0	21
305	ECLand: The ECMWF Land Surface Modelling System. <i>Atmosphere</i> , 2021, 12, 723.	2.3	23
306	On the contribution of remote sensing-based calibration to model hydrological and hydraulic processes in tropical regions. <i>Journal of Hydrology</i> , 2021, 597, 126184.	5.4	18
307	Spatio-temporal dynamics of hydrologic changes in the Himalayan river basins of Nepal using high-resolution hydrological-hydrodynamic modeling. <i>Journal of Hydrology</i> , 2021, 598, 126209.	5.4	9
308	Generating Ensemble Streamflow Forecasts: A Review of Methods and Approaches Over the Past 40 Years. <i>Water Resources Research</i> , 2021, 57, e2020WR028392.	4.2	59
309	Global Reach-Level 3-Hourly River Flood Reanalysis (1980–2019). <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2086-E2105.	3.3	25
311	Modeling Daily Floods in the Lancang-Mekong River Basin Using an Improved Hydrological-Hydrodynamic Model. <i>Water Resources Research</i> , 2021, 57, e2021WR029734.	4.2	17
313	Long-term impacts of tropical cyclones and fluvial floods on economic growth – Empirical evidence on transmission channels at different levels of development. <i>World Development</i> , 2021, 144, 105475.	4.9	19
314	Using the Global Hydrodynamic Model and GRACE Follow-On Data to Access the 2020 Catastrophic Flood in Yangtze River Basin. <i>Remote Sensing</i> , 2021, 13, 3023.	4.0	6
315	Evaluation of river flood extent simulated with multiple global hydrological models and climate forcings. <i>Environmental Research Letters</i> , 2021, 16, 094010.	5.2	12
317	Development of a coupled simulation framework representing the lake and river continuum of mass and energy (TCHOIR v1.0). <i>Geoscientific Model Development</i> , 2021, 14, 5669-5693.	3.6	5
318	A hydrography upscaling method for scale-invariant parametrization of distributed hydrological models. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5287-5313.	4.9	19

#	ARTICLE	IF	CITATIONS
319	Direct Integration of Numerous Dams and Reservoirs Outflow in Continental Scale Hydrologic Modeling. <i>Water Resources Research</i> , 2021, 57, e2020WR029544.	4.2	15
320	Global flood exposure from different sized rivers. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2829-2847.	3.6	12
321	Global riverine flood risk – how do hydrogeomorphic floodplain maps compare to flood hazard maps?. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2921-2948.	3.6	8
322	Residual flood damage under intensive adaptation. <i>Nature Climate Change</i> , 2021, 11, 823-826.	18.8	37
323	Postprocessing continental-scale, medium-range ensemble streamflow forecasts in South America using Ensemble Model Output Statistics and Ensemble Copula Coupling. <i>Journal of Hydrology</i> , 2021, 600, 126520.	5.4	12
324	Changes in floodplain regimes over Canada due to climate change impacts: Observations from CMIP6 models. <i>Science of the Total Environment</i> , 2021, 792, 148323.	8.0	15
325	Two-Dimensional Flood Inundation Modeling in the Godavari River Basin, India – Insights on Model Output Uncertainty. <i>Water (Switzerland)</i> , 2021, 13, 191.	2.7	14
326	Global integrated modeling framework of riverine dissolved inorganic nitrogen with seasonal variation. <i>Hydrological Research Letters</i> , 2021, 15, 50-57.	0.5	3
327	Role of dams in reducing global flood exposure under climate change. <i>Nature Communications</i> , 2021, 12, 417.	12.8	129
328	Daily denitrification rates in floodplains under contrasting pedo-climatic and anthropogenic contexts: modelling at the watershed scale. <i>Biogeochemistry</i> , 2020, 149, 317-336.	3.5	12
329	Comparing earth observation and inundation models to map flood hazards. <i>Environmental Research Letters</i> , 2020, 15, 124032.	5.2	21
330	Flood-induced population displacements in the world. <i>Environmental Research Letters</i> , 2020, 15, 124029.	5.2	25
331	Development of a global sediment dynamics model. <i>Progress in Earth and Planetary Science</i> , 2020, 7, .	3.0	8
332	Development of Integrated Land Simulator. <i>Progress in Earth and Planetary Science</i> , 2020, 7, .	3.0	8
333	Accurate Prediction of Streamflow Using Long Short-Term Memory Network: A Case Study in the Brazos River Basin in Texas. <i>International Journal of Environmental Science and Development</i> , 2019, 10, 294-300.	0.6	22
334	Application of the Probability Evaluation for the Seasonal Reservoir Operation on Flood Mitigation and Water Supply in the Chao Phraya River Watershed, Thailand. <i>Journal of Disaster Research</i> , 2013, 8, 432-446.	0.7	10
335	ESTIMATING GLOBAL RIVER BATHYMETRY BY ASSIMILATING SYNTHETIC SWOT MEASUREMENTS. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2018, 74, I_307-I_312.	0.1	3
336	THE AUTOMATIC EXTRACTION OF PHYSICAL FLOOD PROTECTION PARAMETERS FOR GLOBAL RIVER MODELS. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2019, 75, I_1099-I_1104.	0.1	2

#	ARTICLE	IF	CITATIONS
337	Conversion of surface water coverage to water volume using satellite data. Hydrological Research Letters, 2014, 8, 15-19.	0.5	1
339	Hydromorphological attributes for all Australian river reaches derived from Landsat dynamic inundation remote sensing. Earth System Science Data, 2019, 11, 1003-1015.	9.9	19
340	GloFAS-ERA5 operational global river discharge reanalysis 1979â€‘present. Earth System Science Data, 2020, 12, 2043-2060.	9.9	124
341	A global water resources ensemble of hydrological models: the earth2Observe Tier-1 dataset. Earth System Science Data, 2017, 9, 389-413.	9.9	169
348	Comparison of estimates of global flood models for flood hazard and exposed gross domestic product: a China case study. Natural Hazards and Earth System Sciences, 2020, 20, 3245-3260.	3.6	22
349	Automatic Flood Extent and Depth Estimation Using Alos-2 and Flood Simulation Data. , 2021, , .		0
350	Surface Water Storage in Rivers and Wetlands Derived from Satellite Observations: A Review of Current Advances and Future Opportunities for Hydrological Sciences. Remote Sensing, 2021, 13, 4162.	4.0	26
351	Amazon Hydrology From Space: Scientific Advances and Future Challenges. Reviews of Geophysics, 2021, 59, e2020RG000728.	23.0	53
352	Simulation of Global Water Cycle in Land Using a Crop Calendar Specified by Phenological Analysis of NDVI. Suimon Mizu Shigen Gakkaishi, 2012, 25, 373-388.	0.1	2
356	STUDY OF THE ROLE OF INUNDATION ON RIVER WATER TEMPERATURE WITH A NUMERICAL MODEL. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2017, 73, I_1213-I_1218.	0.1	1
357	VALIDATION OF RIVER DISCHARGE FROM A TERRESTRIAL MODEL WITH 1KM RESOLUTION OVER JAPAN. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2017, 73, I_71-I_79.	0.1	1
358	PRODUCTION OF GLOBAL SURFACE WATER MAP BY MULTIPLE MICROWAVE RADIOMETERS AND ITS FUNDAMENTAL VALIDATION. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2018, 74, I_67-I_72.	0.1	1
359	DETERMINANTS OF WATER TEMPERATURE IN THE RIVERS OVER LOW-LATITUDE REGIONS. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2018, 74, I_583-I_588.	0.1	0
360	MODELLING OF FUTURE FLOOD RISK ACROSS CANADA DUE TO CLIMATE CHANGE. WIT Transactions on Engineering Sciences, 2018, , .	0.0	3
361	Frontiers in Hydrology and Water Resources Research. Suimon Mizu Shigen Gakkaishi, 2018, 31, 509-540.	0.1	1
363	ESTIMATION OF FUTURE FLOOD RISK THROUGHOUT JAPAN USING d4PDF RUNOFF DATA AND SOME ISSUES IN THE METHOD. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2019, 75, I_1069-I_1074.	0.1	3
364	INVESTIGATING FLOOD DETECTABILITY USING SATELLITE-DERIVED DAILY GLOBAL SURFACE WATER CHANGE AND A HIGH RESOLUTION FLOODPLAIN MASK. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2019, 75, I_163-I_168.	0.1	1
365	IMPLEMENTING RESERVOIR OPERATION IN A PROBABILISTIC FLOOD FORECAST SYSTEM AND ITS APPLICATION TO 2015 KINU RIVER FLOOD. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2019, 75, I_151-I_156.	0.1	2

#	ARTICLE	IF	CITATIONS
367	A Study of Automatic Flood-Area Detecion Using ALOS-2 and Ancillary Data. , 2020, , .		1
368	Spring and summer potential flood risk in Northeast China. Journal of Hydrology: Regional Studies, 2021, 38, 100951.	2.4	6
370	HydroBlocks v0.2: enabling a field-scale two-way coupling between the land surface and river networks in Earth system models. Geoscientific Model Development, 2021, 14, 6813-6832.	3.6	11
374	Assessing future vulnerability and risk of humanitarian crises using climate change and population projections within the INFORM framework. Global Environmental Change, 2021, 71, 102393.	7.8	7
376	Long-term mean river discharge estimation with multi-source grid-based global datasets. Stochastic Environmental Research and Risk Assessment, 0, , 1.	4.0	0
378	Design flood estimation for global river networks based on machine learning models. Hydrology and Earth System Sciences, 2021, 25, 5981-5999.	4.9	10
380	HIGH-RESOLUTION SURFACE WATER MAP OVER JAPAN AND ESTIMATION OF INUNDATION AREA CAUSED BY TYPHOON HAGIBIS. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2020, 76, I_613-I_618.	0.1	3
381	Flood Mapping and Classification Jointly Using MuWI and Machine Learning Techniques. , 2021, , .		2
382	Quantification of impacts between 1.5 and 4°C of global warming on flooding risks in six countries. Climatic Change, 2022, 170, 1.	3.6	18
383	On the Precipitation-Induced Uncertainties in Process-Based Hydrological Modeling in the Mekong River Basin. Water Resources Research, 2022, 58, .	4.2	22
384	On the role of floodplain storage and hydrodynamic interactions in flood risk estimation. Hydrological Sciences Journal, 2022, 67, 508-534.	2.6	2
385	Unraveling Long-Term Flood Risk Dynamics Across the Murray-Darling Basin Using a Large-Scale Hydraulic Model and Satellite Data. Frontiers in Water, 2022, 3, .	2.3	3
386	Large-scale sediment modeling with inertial flow routing: Assessment of Madeira river basin. Environmental Modelling and Software, 2022, 149, 105332.	4.5	6
387	Daily synoptic conditions associated with occurrences of compound events in estuaries along North Atlantic coastlines. International Journal of Climatology, 2022, 42, 5694-5713.	3.5	12
388	TOWARD THE GLOBAL-SCALE ESTIMATION OF WATER RESOURCES WITH A COUPLED MODEL FRAMEWORK OF HYDRO- AND THERMODYNAMICS IN RIVERS AND LAKES. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2021, 77, I_241-I_246.	0.1	0
389	IMPROVEMENT OF SOIL MOISTURE SCHEME WITH HORIZONTAL AND VERTICAL SOIL PARAMETER DISTRIBUTION IN A LAND SURFACE MODEL. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic) Tj ETQq1 0.0.784314 rgBT /Ov		
390	EVALUATION OF THE REPRODUCIBILITY OF RIVER DISCHARGE WITH DIFFERENT PRECIPITATION DATA IN JAPAN. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2021, 77, I_289-I_294.	0.1	0
393	Economic growth dominates rising potential flood risk in the Yangtze River and benefits of raising dikes from 1991 to 2015. Environmental Research Letters, 2022, 17, 034046.	5.2	10

#	ARTICLE	IF	CITATIONS
394	Global-Scale Assessment of Economic Losses Caused by Flood-Related Business Interruption. <i>Water (Switzerland)</i> , 2022, 14, 967.	2.7	6
395	Development of a Reservoir Flood Control Scheme for Global Flood Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	7
396	Cooling Effects Revealed by Modeling of Wetlands and Land-Atmosphere Interactions. <i>Water Resources Research</i> , 2022, 58, .	4.2	7
397	Investigating Flood Impact on Crop Production under a Comprehensive and Spatially Explicit Risk Evaluation Framework. <i>Agriculture (Switzerland)</i> , 2022, 12, 484.	3.1	15
398	Correction of River Bathymetry Parameters Using the Stage-Discharge Rating Curve. <i>Water Resources Research</i> , 2022, 58, .	4.2	3
399	The Role of Global Data Sets for Riverine Flood Risk Management at National Scales. <i>Water Resources Research</i> , 2022, 58, .	4.2	10
400	Reliability Assessment of Computational River Models. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2022, 148, .	1.0	0
401	Merging Landsat and airborne LiDAR observations for continuous monitoring of floodplain water extent, depth and volume. <i>Journal of Hydrology</i> , 2022, 609, 127684.	5.4	6
402	Hydrologic balance and inundation dynamics of Southeast Asia's largest inland lake altered by hydropower dams in the Mekong River basin. <i>Science of the Total Environment</i> , 2022, 831, 154833.	8.0	16
403	Calibrating 1D hydrodynamic river models in the absence of cross-section geometry using satellite observations of water surface elevation and river width. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6359-6379.	4.9	8
404	A novel high-resolution gridded precipitation dataset for Peruvian and Ecuadorian watersheds - development and hydrological evaluation. <i>Journal of Hydrometeorology</i> , 2021, , .	1.9	6
405	Alteration of River Flow and Flood Dynamics by Existing and Planned Hydropower Dams in the Amazon River Basin. <i>Water Resources Research</i> , 2022, 58, .	4.2	20
408	Physics-Guided Long Short-Term Memory Network for Streamflow and Flood Simulations in the Lancang-Mekong River Basin. <i>Water (Switzerland)</i> , 2022, 14, 1429.	2.7	10
409	Comparative Evaluation of Global Flood Hazard Maps and Recommendations for Corporate Practice. <i>Suimon Mizu Shigen Gakkaishi</i> , 2022, 35, 175-191.	0.1	2
410	River network and hydro-geomorphological parameters at 12° resolution for global hydrological and climate studies. <i>Earth System Science Data</i> , 2022, 14, 2239-2258.	9.9	7
411	Hydrological Impact of the New ECMWF Multi-Layer Snow Scheme. <i>Atmosphere</i> , 2022, 13, 727.	2.3	4
412	Verification of the Usability of Global River Inundation Model Output for Hazard Maps in Japan. <i>Suimon Mizu Shigen Gakkaishi</i> , 2022, 35, 267-278.	0.1	2
413	Challenges Regionalizing Methane Emissions Using Aquatic Environments in the Amazon Basin as Examples. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	4

#	ARTICLE	IF	CITATIONS
414	Short History and Future Prospects of Global Hydrology. Trends in the Sciences, 2022, 27, 1_12-1_16.	0.0	0
415	Assessing the capacity of large-scale hydrologic-hydrodynamic models for mapping flood hazard in southern Brazil. Revista Brasileira De Recursos Hidricos, 0, 27, .	0.5	4
416	Runoff of Russian Rivers under Current and Projected Climate Change: a Review 2. Climate Change Impact on the Water Regime of Russian Rivers in the XXI Century. Water Resources, 2022, 49, 351-365.	0.9	11
417	Where rivers jump course. Science, 2022, 376, 987-990.	12.6	22
418	How much inundation occurs in the Amazon River basin?. Remote Sensing of Environment, 2022, 278, 113099.	11.0	18
419	Connecting Weather and Hazard: A Partnership of Physical Scientists in Connected Disciplines. , 2022, , 149-200.		1
420	Impact of Riverine Fresh Water on Indian Summer Monsoon: Coupling a Runoff Routing Model to a Global Seasonal Forecast Model. Frontiers in Climate, 0, 4, .	2.8	2
421	Can re-infiltration process be ignored for flood inundation mapping and prediction during extreme storms? A case study in Texas Gulf Coast region. Environmental Modelling and Software, 2022, 155, 105450.	4.5	2
422	Inundation prediction in tropical wetlands from JULES-CaMa-Flood global land surface simulations. Hydrology and Earth System Sciences, 2022, 26, 3151-3175.	4.9	3
423	Hydrological and Meteorological Variability in the Volga River Basin under Global Warming by 1.5 and 2 Degrees. Climate, 2022, 10, 107.	2.8	8
424	The impact of multi-sensor land data assimilation on river discharge estimation. Remote Sensing of Environment, 2022, 279, 113138.	11.0	7
426	Estimating the lateral transfer of organic carbon through the European river network using a land surface model. Earth System Dynamics, 2022, 13, 1119-1144.	7.1	3
427	Estimation of the Madeira floodplain dynamics from 2008 to 2018. Frontiers in Water, 0, 4, .	2.3	1
428	CREST-VEC: a framework towards more accurate and realistic flood simulation across scales. Geoscientific Model Development, 2022, 15, 6181-6196.	3.6	5
429	Impact of cry wolf effects on social preparedness and the efficiency of flood early warning systems. Hydrology and Earth System Sciences, 2022, 26, 4265-4278.	4.9	2
431	Development of Land-River Two-Way Hydrologic Coupling for Floodplain Inundation in the Energy Exascale Earth System Model. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	8
432	Multivariable Integrated Evaluation of Hydrodynamic Modeling: A Comparison of Performance Considering Different Baseline Topography Data. Water Resources Research, 2022, 58, .	4.2	4
433	Complementing ERA5 and E-OBS with high-resolution river discharge over Europe. Oceanologia, 2023, 65, 230-248.	2.2	4

#	ARTICLE	IF	CITATIONS
434	A regional hydrological model for arid and semi-arid river basins with consideration of irrigation. Environmental Modelling and Software, 2022, 157, 105531.	4.5	3
435	Integrated Hydraulic-Hydrological Assimilation Chain: Towards Multisource Data Fusion from River Network to Headwaters. Springer Water, 2022, , 195-211.	0.3	0
436	AWI-CM3 coupled climate model: description and evaluation experiments for a prototype post-CMIP6 model. Geoscientific Model Development, 2022, 15, 6399-6427.	3.6	4
437	Development and validation of a three-dimensional variably saturated flow model for global future water resource assessment – Targeting saturated groundwater flow in plains – Journal of Advances in Modeling Earth Systems, 0, , .	3.8	0
438	Water balance model (WBM) v.1.0.0: a scalable gridded global hydrologic model with water-tracking functionality. Geoscientific Model Development, 2022, 15, 7287-7323.	3.6	10
439	A first continuous and distributed satellite-based mapping of river discharge over the Amazon. Journal of Hydrology, 2022, 614, 128481.	5.4	1
440	Where Do Humans Build Levees? A Case Study on the Contiguous United States. , 2022, , .		0
442	Predictability of daily streamflow for the great rivers of South America based on a simple metric. Hydrological Sciences Journal, 2023, 68, 34-48.	2.6	0
443	Floodplain Surface-Water Circulation Dynamics: Congaree River, South Carolina, USA. Water Resources Research, 2023, 59, .	4.2	2
444	Estimation of flood-exposed population in data-scarce regions combining satellite imagery and high resolution hydrological-hydraulic modelling: A case study in the Licungo basin (Mozambique). Journal of Hydrology: Regional Studies, 2022, 44, 101247.	2.4	6
445	Water Resources in Africa: The Role of Earth Observation Data and Hydrodynamic Modeling to Derive River Discharge. Surveys in Geophysics, 2023, 44, 97-122.	4.6	9
446	Ying Fan and groundwater's global impact. Journal of Hydrology, 2023, 617, 128923.	5.4	0
447	Effects of cryospheric hydrological processes on future flood inundation and the subsequent socioeconomic exposures in Central Asia. Environmental Research Letters, 2022, 17, 124020.	5.2	2
448	CMIP6... SCIENTIA SINICA Terrae, 2022, , .	0.3	0
449	Enhancement of river flooding due to global warming. Scientific Reports, 2022, 12, .	3.3	25
450	Use of Hydrological Models in Global Stochastic Flood Modeling. Water Resources Research, 2022, 58, .	4.2	0
451	Global Evaluation of Runoff Simulation From Climate, Hydrological and Land Surface Models. Water Resources Research, 2023, 59, .	4.2	11
452	Evaluation of wetland CH ₄ in the Joint UK Land Environment Simulator (JULES) land surface model using satellite observations. Biogeosciences, 2022, 19, 5779-5805.	3.3	0

#	ARTICLE	IF	CITATIONS
453	Channel Water Storage Anomaly: A New Remotely Sensed Quantity for Global River Analysis. <i>Geophysical Research Letters</i> , 2023, 50, .	4.0	1
454	Increased hydropower but with an elevated risk of reservoir operations in India under the warming climate. <i>IScience</i> , 2023, 26, 105986.	4.1	5
455	FUTURE PROJECTION OF WATER RESOURCES OVER JAPAN USING 150-YEAR CONTINUOUS RUN. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2022, 78, I_67-I_72.	0.1	0
456	River Bathymetry acquisition techniques and its utility for river hydrodynamic modeling. , 2023, , 339-351.		0
457	A Framework for Estimating Global River Discharge From the Surface Water and Ocean Topography Satellite Mission. <i>Water Resources Research</i> , 2023, 59, .	4.2	8
458	Impact of Paddy Field Reservoirs on Flood Management in a Large River Basin of Japan. <i>Sustainability</i> , 2023, 15, 6604.	3.2	0
459	Topological Relationship-Based Flow Direction Modeling: Mesh-Independent River Networks Representation. <i>Journal of Advances in Modeling Earth Systems</i> , 2023, 15, .	3.8	4
460	Assimilation of transformed water surface elevation to improve river discharge estimation in a continental-scale river. <i>Hydrology and Earth System Sciences</i> , 2023, 27, 647-671.	4.9	2
461	Climate and Human Impacts on Hydrological Processes and Flood Risk in Southern Louisiana. <i>Water Resources Research</i> , 2023, 59, .	4.2	2
462	Impacts of climate warming on global floods and their implication to current flood defense standards. <i>Journal of Hydrology</i> , 2023, 618, 129236.	5.4	11
463	Increased floodplain inundation in the Amazon since 1980. <i>Environmental Research Letters</i> , 2023, 18, 034024.	5.2	5
464	Possibility of global gridded streamflow dataset correction: applications of large-scale watersheds with different climates. <i>Theoretical and Applied Climatology</i> , 2023, 152, 627-647.	2.8	1
465	Rapid Prediction Model for Urban Floods Based on a Light Gradient Boosting Machine Approach and Hydrological-Hydraulic Model. <i>International Journal of Disaster Risk Science</i> , 2023, 14, 79-97.	2.9	12
466	Physics-Informed Neural Networks of the Saint-Venant Equations for Downscaling a Large-Scale River Model. <i>Water Resources Research</i> , 2023, 59, .	4.2	11
467	Flood Inundation Modelling in Data-Sparse Flatlands: Challenges and Prospects. <i>Springer Geography</i> , 2023, , 19-35.	0.4	0
468	Projection of China's future runoff based on the CMIP6 mid-high warming scenarios. <i>Science China Earth Sciences</i> , 2023, 66, 528-546.	5.2	4
469	Sensitivity Analysis of Modelled Flood Inundation Extents over Hawkesbury-Nepean Catchment. <i>Geosciences (Switzerland)</i> , 2023, 13, 67.	2.2	0
470	A globally applicable framework for compound flood hazard modeling. <i>Natural Hazards and Earth System Sciences</i> , 2023, 23, 823-846.	3.6	16

#	ARTICLE	IF	CITATIONS
471	Global Asymmetries in the Influence of ENSO on Flood Risk Based on 1,600 Years of Hybrid Simulations. Geophysical Research Letters, 2023, 50, .	4.0	1
472	A global topography- and hydrography-based floodability index for the downscaling, analysis, and data-fusion of surface water. Journal of Hydrology, 2023, 620, 129406.	5.4	0
473	Multiscale Observation Product (MOP) for Temporal Flood Inundation Mapping of the 2015 Dallas Texas Flood. Remote Sensing, 2023, 15, 1615.	4.0	0
474	Uncertainty of internal climate variability in probabilistic flood simulations using d4PDF. Hydrological Research Letters, 2023, 17, 15-20.	0.5	0
475	Flood impacts on global crop production: advances and limitations. Environmental Research Letters, 2023, 18, 054007.	5.2	5
476	Methodology for constructing a flood-hazard map for a future climate. Hydrology and Earth System Sciences, 2023, 27, 1627-1644.	4.9	5
477	July 2020 heavy rainfall in Japan: effect of real-time river discharge on ocean circulation based on a coupled river-ocean model. Ocean Dynamics, 2023, 73, 249-265.	2.2	1
478	An assessment of the present hydroclimatic regime of the Madeira River basin using climate and hydrological models. Hydrological Sciences Journal, 0, , 1-20.	2.6	0
479	Evaluation of potential flood hazard through spatial zoning in Achaá€“Arica, northern Chile, integrating GIS, multi-criteria analysis and two-dimensional numerical simulation. Natural Hazards, 0, , .	3.4	0
480	Prediction of floods using improved PCA with one-dimensional convolutional neural network. International Journal of Intelligent Networks, 2023, 4, 122-129.	7.8	1
481	An improved subgrid channel model with upwind-form artificial diffusion for river hydrodynamics and floodplain inundation simulation. Geoscientific Model Development, 2023, 16, 3291-3311.	3.6	2
482	Modeling compound flood risk and risk reduction using a globally applicable framework: a pilot in the Sofala province of Mozambique. Natural Hazards and Earth System Sciences, 2023, 23, 2251-2272.	3.6	2
483	Strategic siting and design of dams minimizes impacts on seasonal floodplain inundation. Environmental Research Letters, 2023, 18, 084011.	5.2	1
484	Optimal Postprocessing Strategies With LSTM for Global Streamflow Prediction in Ungauged Basins. Water Resources Research, 2023, 59, .	4.2	5
485	Spatially consistent physical characteristics of <scp>UK</scp> rivers: 1â€“km data. Geoscience Data Journal, 0, , .	4.4	0
486	Mapping global non-floodplain wetlands. Earth System Science Data, 2023, 15, 2927-2955.	9.9	2
487	Evaluating evolutionary algorithms for simulating catchment response to river discharge. Journal of Water and Climate Change, 2023, 14, 2736-2754.	2.9	0
488	Quantitative evaluation of flood damage methodologies under a portfolio of adaptation scenarios. Natural Hazards, 2023, 118, 1855-1879.	3.4	1

#	ARTICLE	IF	CITATIONS
490	Seasonal streamflow forecasting in South America's largest rivers. <i>Journal of Hydrology: Regional Studies</i> , 2023, 49, 101487.	2.4	2
491	Extreme weather impacts do not improve conflict predictions in Africa. <i>Humanities and Social Sciences Communications</i> , 2023, 10, .	2.9	1
492	Inland Surface Waters Quantity Monitored from Remote Sensing. <i>Surveys in Geophysics</i> , 2023, 44, 1519-1552.	4.6	4
493	Stressed economies respond more strongly to climate extremes. <i>Environmental Research Letters</i> , 2023, 18, 094034.	5.2	0
494	Design principles for engineering wetlands to improve resilience of coupled built and natural water infrastructure. <i>Environmental Research Letters</i> , 0, , .	5.2	0
495	Understanding non-stationarity of hydroclimatic extremes and resilience in Peninsular catchments, India. <i>Scientific Reports</i> , 2023, 13, .	3.3	1
496	A Hybrid Model Combining the Cama-Flood Model and Deep Learning Methods for Streamflow Prediction. <i>Water Resources Management</i> , 2023, 37, 4841-4859.	3.9	2
497	A decadal review of the CREST model family: Developments, applications, and outlook. <i>Journal of Hydrology X</i> , 2023, 20, 100159.	1.6	0
498	Expressive fluxes over Amazon floodplain revealed by 2D hydrodynamic modelling. <i>Journal of Hydrology</i> , 2023, 625, 130122.	5.4	1
499	Quantifying the relative contributions of climate change and ENSO to flood occurrence in Bangladesh. <i>Environmental Research Letters</i> , 2023, 18, 104027.	5.2	0
500	To what extent does river routing matter in hydrological modeling?. <i>Hydrology and Earth System Sciences</i> , 2023, 27, 3505-3524.	4.9	0
502	Introducing a new floodplain scheme in ORCHIDEE (version 7885): validation and evaluation over the Pantanal wetlands. <i>Geoscientific Model Development</i> , 2023, 16, 5755-5782.	3.6	0
503	Groundwater dominates terrestrial hydrological processes in the Amazon at the basin and subbasin scales. <i>Journal of Hydrology</i> , 2024, 628, 130312.	5.4	0
504	Substantial increase in future fluvial flood risk projected in China's major urban agglomerations. <i>Communications Earth & Environment</i> , 2023, 4, .	6.8	6
505	A Global Map for Selecting Stationary and Nonstationary Methods to Estimate Extreme Floods. <i>Water (Switzerland)</i> , 2023, 15, 3835.	2.7	0
506	A novel conceptual flood inundation model for large scale data-scarce regions. <i>Environmental Modelling and Software</i> , 2024, 171, 105863.	4.5	1
507	Geomorphic flood hazard mapping: from floodplain delineation to flood hazard characterization. <i>Hydrological Sciences Journal</i> , 2023, 68, 2388-2403.	2.6	0
508	Climate Change Impact on the Annual and Maximum Runoff of Russian Rivers: Diagnosis and Projections. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2023, 59, S153-S169.	0.9	0

#	ARTICLE	IF	CITATIONS
509	TOWARD A GLOBAL-SCALE ESTIMATION OF WATER RESOURCES WITH A COUPLED MODEL FRAMEWORK OF HYDRO- AND THERMODYNAMICS IN RIVERS AND LAKES. Journal of Japan Society of Civil Engineers, 2023, 11, n/a.	0.2	0
510	OpenStreetMap for Multi-Faceted Climate Risk Assessments. Environmental Research Communications, 0, , .	2.3	0
511	Learning Global Evapotranspiration Dataset Corrections from a Water Cycle Closure Supervision. Remote Sensing, 2024, 16, 170.	4.0	0
512	AltiMaP: altimetry mapping procedure for hydrography data. Earth System Science Data, 2024, 16, 75-88.	9.9	0
513	Backwater length estimates in modern and ancient fluvio-deltaic settings: Review and proposal of standardized workflows. Earth-Science Reviews, 2024, 250, 104692.	9.1	0
514	Improvement and Evaluation of CLM5 Application in the Songhua River Basin Based on CaMa-Flood. Water (Switzerland), 2024, 16, 442.	2.7	0
515	Enhancing Streamflow Prediction Physically Consistently Using Process-Based Modeling and Domain Knowledge: A Review. Sustainability, 2024, 16, 1376.	3.2	0
516	Long-Term Experimental Evaluation of a High-Resolution Atmospheric General Circulation Model From a Hydrological Perspective. Journal of Geophysical Research D: Atmospheres, 2024, 129, .	3.3	0
517	A Simple Model of Flood Peak Attenuation. Water Resources Research, 2024, 60, .	4.2	0
518	Technical Note: Resolution enhancement of flood inundation grids. Hydrology and Earth System Sciences, 2024, 28, 575-588.	4.9	0
519	Using global datasets to estimate flood exposure at the city scale: an evaluation in Addis Ababa. Frontiers in Environmental Science, 0, 12, .	3.3	0
520	Disentangling the hydrological and hydraulic controls on streamflow variability in Energy Exascale Earth System Model (E3SM) V2 – a case study in the Pantanal region. Geoscientific Model Development, 2024, 17, 1197-1215.	3.6	0
521	Improving river routing algorithms to efficiently implement canal water diversion schemes in global hydrological models. Hydrological Research Letters, 2024, 18, 7-13.	0.5	0
522	Hydrodynamic Modeling of Stratification and Mixing in a Shallow, Tropical Floodplain Lake. Water Resources Research, 2024, 60, .	4.2	0
523	Scaling from global to regional river flow with global hydrological models: Choice matters. Journal of Hydrology, 2024, 633, 130960.	5.4	0
524	Flood risk assessment for Indian sub-continental river basins. Hydrology and Earth System Sciences, 2024, 28, 1107-1126.	4.9	0
525	A fast physically-guided emulator of MATSIRO land surface model. Journal of Hydrology, 2024, 634, 131093.	5.4	0
526	Global multi-hazard risk assessment in a changing climate. Scientific Reports, 2024, 14, .	3.3	0

#	ARTICLE	IF	CITATIONS
527	Climate change will reduce North American inland wetland areas and disrupt their seasonal regimes. Nature Communications, 2024, 15, .	12.8	0