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List of Publications by Year in descending order

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79 papers	2,643 citations	218677 26 h-index	214800 47 g-index
120 all docs	120 docs citations	120 times ranked	3070 citing authors

#	Article	IF	Citations
1	Fluvial flood risk management in a changing world. Natural Hazards and Earth System Sciences, 2010, 10, 509-527.	3.6	334
2	Evaluation of eight high spatial resolution gridded precipitation products in Adige Basin (Italy) at multiple temporal and spatial scales. Science of the Total Environment, 2016, 573, 1536-1553.	8.0	270
3	Evaluation of precipitation input for SWAT modeling in Alpine catchment: A case study in the Adige river basin (Italy). Science of the Total Environment, 2016, 573, 66-82.	8.0	212
4	Fuzzy rule-based models for infiltration. Water Resources Research, 1993, 29, 373-382.	4.2	119
5	Analyzing the future climate change of Upper Blue Nile River basin using statistical downscaling techniques. Hydrology and Earth System Sciences, 2018, 22, 2391-2408.	4.9	82
6	Evaluating the performance of random forest for large-scale flood discharge simulation. Journal of Hydrology, 2020, 590, 125531.	5.4	78
7	Flood Events in the Rhine Basin: Genesis, Influences and Mitigation. , 2001, 23, 271-290.		76
8	Climate change, water resources and sustainable development in the arid and semi-arid lands of Central Asia in the past 30 years. Journal of Arid Land, 2019, 11, 1-14.	2.3	76
9	Analysis of combined and isolated effects of land-use and land-cover changes and climate change on the upper Blue Nile River basin's streamflow. Hydrology and Earth System Sciences, 2018, 22, 6187-6207.	4.9	66
10	A multi-objective approach to improve SWAT model calibration in alpine catchments. Journal of Hydrology, 2018, 559, 347-360.	5.4	63
11	Multiâ€scale modelling of landâ€use change and river training effects on floods in the Rhine basin. River Research and Applications, 2007, 23, 1102-1125.	1.7	61
12	Sustainable management of river oases along the Tarim River (SuMaRiO) in Northwest China under conditions of climate change. Earth System Dynamics, 2015, 6, 83-107.	7.1	60
13	Periodicity of sediment load and runoff in the Yangtze River basin and possible impacts of climatic changes and human activities / PÃ©riodicitÃ© de la charge sÃ©dimentaire et de l'Ã©coulement dans le bassin du Fleuve Yangtze et impacts possibles des changements climatiques et des activitÃ©s humaines. Hydrological Sciences Journal, 2008, 53, 457-465.	2.6	50
14	Laboratory Calibration and Performance Evaluation of Low-Cost Capacitive and Very Low-Cost Resistive Soil Moisture Sensors. Sensors, 2020, 20, 363.	3.8	46
15	Framework for Offline Flood Inundation Forecasts for Two-Dimensional Hydrodynamic Models. Geosciences (Switzerland), 2018, 8, 346.	2.2	42
16	Effects of Land Use and Climate Change on Groundwater and Ecosystems at the Middle Reaches of the Tarim River Using the MIKE SHE Integrated Hydrological Model. Water (Switzerland), 2015, 7, 3040-3056.	2.7	40
17	Exploring the relation between flood risk management and flood resilience. Water Security, 2020, 9, 100059.	2.5	38
18	Flood inundation forecasts using validation data generated with the assistance of computer vision. Journal of Hydroinformatics, 2019, 21, 240-256.	2.4	36

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19	River network evolution and fluvial process responses to human activity in a hyper-arid environment â€“ Case of the Tarim River in Northwest China. Catena, 2016, 147, 96-109.	5.0	35
20	Agricultural water allocation strategies along the oasis of Tarim River in Northwest China. Agricultural Water Management, 2017, 187, 24-36.	5.6	33
21	Assessment of Discharge through a Dike Breach and Simulation of Flood Wave Propagation. Natural Hazards, 2006, 38, 63-78.	3.4	32
22	Large-Scale Hydrological Modeling and Decision-Making for Agricultural Water Consumption and Allocation in the Main Stem Tarim River, China. Water (Switzerland), 2015, 7, 2821-2839.	2.7	32
23	Possible climate change/variability and human impacts, vulnerability of drought-prone regions, water resources and capacity building for Africa. Hydrological Sciences Journal, 0, , 1-18.	2.6	32
24	Modeling the hydrological impact of land use change in a dolomite-dominated karst system. Journal of Hydrology, 2018, 567, 267-279.	5.4	32
25	Prediction of Maximum Flood Inundation Extents With Resilient Backpropagation Neural Network: Case Study of Kulmbach. Frontiers in Earth Science, 2020, 8, .	1.8	32
26	A new approach to quantify propagation time from meteorological to hydrological drought. Journal of Hydrology, 2021, 603, 127056.	5.4	32
27	Monitoring Water Quality of Valle de Bravo Reservoir, Mexico, Using Entire Lifespan of MERIS Data and Machine Learning Approaches. Remote Sensing, 2020, 12, 1586.	4.0	30
28	The effectiveness of polder systems on peak discharge capping of floods along the middle reaches of the Elbe River in Germany. Hydrology and Earth System Sciences, 2007, 11, 1391-1401.	4.9	28
29	Variability in snow depth time series in the Adige catchment. Journal of Hydrology: Regional Studies, 2017, 13, 240-254.	2.4	26
30	Improving SWAT model performance in the upper Blue Nile Basin using meteorological data integration and subcatchment discretization. Hydrology and Earth System Sciences, 2017, 21, 4907-4926.	4.9	25
31	Calibration of snow parameters in SWAT: comparison of three approaches in the Upper Adige River basin (Italy). Hydrological Sciences Journal, 2018, 63, 657-678.	2.6	23
32	A meta-analysis of the value of ecosystem services of floodplains for the Danube River Basin. Science of the Total Environment, 2021, 777, 146062.	8.0	22
33	Optimizing Water Allocation under Uncertain System Conditions for Water and Agriculture Future Scenarios in Alfeios River Basin (Greece)â€”Part B: Fuzzy-Boundary Intervals Combined with Multi-Stage Stochastic Programming Model. Water (Switzerland), 2015, 7, 6427-6466.	2.7	21
34	Climate change in Central Asia: Sino-German cooperative research findings. Science Bulletin, 2020, 65, 689-692.	9.0	21
35	Integration of Remote Sensing and Mexican Water Quality Monitoring System Using an Extreme Learning Machine. Sensors, 2021, 21, 4118.	3.8	20
36	Spatiotemporal analysis of heavy rain-induced flood occurrences in Germany using a novel event database approach. Journal of Hydrology, 2021, 595, 125985.	5.4	18

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37	Development and application of high resolution SPEI drought dataset for Central Asia. Scientific Data, 2022, 9, 172.	5.3	17
38	Fully automated snow depth measurements from time-lapse images applying a convolutional neural network. Science of the Total Environment, 2019, 697, 134213.	8.0	16
39	Comparison of two model calibration approaches and their influence on future projections under climate change in the Upper Indus Basin. Climatic Change, 2020, 163, 1227-1246.	3.6	16
40	A Multi-Criteria Model Selection Protocol for Practical Applications to Nutrient Transport at the Catchment Scale. Water (Switzerland), 2015, 7, 2851-2880.	2.7	15
41	Can We Calibrate a Daily Time-Step Hydrological Model Using Monthly Time-Step Discharge Data?. Water (Switzerland), 2019, 11, 1750.	2.7	15
42	Spatial and temporal variability in hydrochemistry of a small-scale dolomite karst environment. Environmental Earth Sciences, 2019, 78, 1.	2.7	15
43	Evaluation of homogenization methods for seasonal snow depth data in the Austrian Alps, 1930â€“2010. International Journal of Climatology, 2019, 39, 4514-4530.	3.5	15
44	Forecasting upper and lower uncertainty bands of river flood discharges with high predictive skill. Journal of Hydrology, 2019, 576, 749-763.	5.4	14
45	A GIS-based model for simulating the hydrological effects of land use changes on karst systems â€“ The integration of the LuKARS model into FREEWAT. Environmental Modelling and Software, 2020, 127, 104682.	4.5	14
46	Possibilities and Limitations of Interdisciplinary, User-oriented Research: Experiences from the German Research Network Natural Disasters. Natural Hazards, 2006, 38, 3-20.	3.4	13
47	An eco-hydrological approach to predicting regional vegetation and groundwater response to ecological water conveyance in dryland riparian ecosystems. Quaternary International, 2015, 380-381, 224-236.	1.5	13
48	Building hazard maps with differentiated risk perception for flood impact assessment. Natural Hazards and Earth System Sciences, 2020, 20, 2647-2663.	3.6	13
49	Optimizing Water Allocation under Uncertain System Conditions in Alfeios River Basin (Greece), Part A: Two-Stage Stochastic Programming Model with Deterministic Boundary Intervals. Water (Switzerland), 2015, 7, 5305-5344.	2.7	12
50	Integrated Valuation of Nature-Based Solutions Using TESSA: Three Floodplain Restoration Studies in the Danube Catchment. Sustainability, 2021, 13, 1482.	3.2	11
51	Model based decision support system for land use changes and socio-economic assessments. Journal of Arid Land, 2018, 10, 169-182.	2.3	10
52	Reducing uncertainties in flood inundation outputs of a two-dimensional hydrodynamic model by constraining roughness. Natural Hazards and Earth System Sciences, 2019, 19, 1445-1457.	3.6	10
53	Providing guidance on efficient flash flood documentation: an application based approach. Journal of Hydrology, 2020, 581, 124466.	5.4	10
54	Multistep Flood Inundation Forecasts with Resilient Backpropagation Neural Networks: Kulmbach Case Study. Water (Switzerland), 2020, 12, 3568.	2.7	10

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55	Declining glaciers endanger sustainable development of the oases along the Aksu-Tarim River (Central) Tj ETQq1 1 0.784314 rgBT /Over	5.9	9
56	Sediment dynamics of an allogenic river channel in a very arid environment. Hydrological Processes, 2017, 31, 2050-2061.	2.6	8
57	Evaluation of CMIP5 Climate Models Using Historical Surface Air Temperatures in Central Asia. Atmosphere, 2021, 12, 308.	2.3	8
58	Intercomparison of Sentinel-2 and modelled snow cover maps in a high-elevation Alpine catchment. Journal of Hydrology X, 2022, 15, 100123.	1.6	8
59	Regional-scale prediction of pluvial and flash flood susceptible areas using tree-based classifiers. Journal of Hydrology, 2022, 612, 128088.	5.4	8
60	Statistical analysis and modelling of surface runoff from arable fields in central Europe. Hydrology and Earth System Sciences, 2013, 17, 4121-4132.	4.9	7
61	Implementation of Simple Strategies to Improve Wellfield Management in Arid Regions: The Case Study of Wadi Al Arab Wellfield, Jordan. Sustainability, 2019, 11, 5903.	3.2	7
62	The study of artificial intelligence for predicting land use changes in an arid ecosystem. Journal of Chinese Geography, 2022, 32, 717-734.	3.9	7
63	Flood risk management along German rivers â€“ A review of multi-criteria analysis methods and decision-support systems. Environmental Science and Policy, 2022, 135, 191-206.	4.9	7
64	Risk-based flood protection planning under climate change and modeling uncertainty: a pre-alpine case study. Natural Hazards and Earth System Sciences, 2018, 18, 1327-1347.	3.6	5
65	Automated Location Detection of Retention and Detention Basins for Water Management. Water (Switzerland), 2020, 12, 1491.	2.7	5
66	Occurrence and Characteristics of Flash Floods in Bavaria (Germany). Climate Change Management, 2020, , 293-310.	0.8	5
67	Validation of a sample model to determine regional evapotraspiration and groundwater recharge rates. Physics and Chemistry of the Earth, 1999, 24, 325-330.	0.3	4
68	Saturated hydraulic conductivity from field measurements compared to pedotransfer functions in a heterogeneous arable landscape. Journal of Earth Science (Wuhan, China), 2010, 21, 923-930.	3.2	4
69	Uncertainties of soil parameterisation in process-based simulation of distributed flood control measures. Advances in Geosciences, 0, 27, 121-129.	12.0	4
70	Monitoring the Spring Flood in Lena Delta with Hydrodynamic Modeling Based on SAR Satellite Products. Remote Sensing, 2021, 13, 4695.	4.0	4
71	Discharge Interval method for uncertain flood forecasts using a flood model chain: city of Kulmbach. Journal of Hydroinformatics, 2019, 21, 925-944.	2.4	3
72	SUSTAINABLE MANAGEMENT OF RIVER OASES ALONG THE TARIM RIVER (P.R. CHINA) AND THE ECOSYSTEM SERVICES APPROACH. Geography, Environment, Sustainability, 2013, 6, 77-90.	1.3	3

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73	Experimental Investigation of Lateral Subsurface Flow Depending on Land Use and Soil Cultivation. Water (Switzerland), 2019, 11, 766.	2.7	2
74	Hybrid-Parallel Simulations and Visualisations of Real Flood and Tsunami Events Using Unstructured Meshes on High-Performance Cluster Systems. Springer Water, 2020, , 867-888.	0.3	2
75	Suspended sediment dynamics of an allogenic dryland river channel. , 2016, , 490-495.		1
76	Sustainable land and water management of River Oases along the Tarim River. Proceedings of the International Association of Hydrological Sciences, 0, 373, 25-29.	1.0	1
77	Multikriterielle Wirksamkeitsanalysen zum dezentralen Hochwasserschutz. , 2018, , 202-209.		0
78	Dynamic Flood Inundation Forecast for the City of Kulmbach Using Offline Two-Dimensional Hydrodynamic Models. , 0, , .		0
79	Flood Forecasting with Uncertainty Using a Fully Automated Flood Model Chain: a Case Study for the City of Kulmbach. , 0, , .		0