

Martijn J Booij

List of Publications by Citations

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99
papers

2,770
citations

29
h-index

50
g-index

114
ext. papers

3,275
ext. citations

4.1
avg, IF

5.78
L-index

#	Paper	IF	Citations
99	The impact of climate change on the water resources of Hindukush-Karakorum-Himalaya region under different glacier coverage scenarios. <i>Journal of Hydrology</i> , 2008 , 355, 148-163	6	328
98	Impact of climate change on river flooding assessed with different spatial model resolutions. <i>Journal of Hydrology</i> , 2005 , 303, 176-198	6	245
97	Identification and classification of uncertainties in the application of environmental models. <i>Environmental Modelling and Software</i> , 2010 , 25, 1518-1527	5.2	112
96	Limits to the world's green water resources for food, feed, fiber, timber, and bioenergy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4893-4898	11.5	109
95	The water footprint of Indonesian provinces related to the consumption of crop products. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 119-128	5.5	104
94	Simulation and forecasting of streamflows using machine learning models coupled with base flow separation. <i>Journal of Hydrology</i> , 2018 , 564, 266-282	6	103
93	Review and classification of indicators of green water availability and scarcity. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 4581-4608	5.5	87
92	Use of regional climate model simulations as input for hydrological models for the Hindukush-Karakorum-Himalaya region. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 1075-1089	5.5	87
91	Multi-variable calibration of a semi-distributed hydrological model using streamflow data and satellite-based evapotranspiration. <i>Journal of Hydrology</i> , 2013 , 505, 276-290	6	73
90	The influence of conceptual model structure on model performance: a comparative study for 237 French catchments. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 4227-4239	5.5	66
89	Attribution of changes in the water balance of a tropical catchment to land use change using the SWAT model. <i>Hydrological Processes</i> , 2017 , 31, 2029-2040	3.3	60
88	Effect of different uncertainty sources on the skill of 10 day ensemble low flow forecasts for two hydrological models. <i>Water Resources Research</i> , 2013 , 49, 4035-4053	5.4	59
87	Hydrological response to future land-use change and climate change in a tropical catchment. <i>Hydrological Sciences Journal</i> , 2018 , 63, 1368-1385	3.5	53
86	Spatial soil erosion estimation using an artificial neural network (ANN) and field plot data. <i>Catena</i> , 2018 , 163, 210-218	5.8	49
85	Catchment Variability and Parameter Estimation in Multi-Objective Regionalisation of a Rainfall-Runoff Model. <i>Water Resources Management</i> , 2010 , 24, 3961-3985	3.7	48
84	The skill of seasonal ensemble low-flow forecasts in the Moselle River for three different hydrological models. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 275-291	5.5	45
83	Assessment of Roughness Length Schemes Implemented within the Noah Land Surface Model for High-Altitude Regions. <i>Journal of Hydrometeorology</i> , 2014 , 15, 921-937	3.7	44

82	Decision making under uncertainty in a decision support system for the Red River. <i>Environmental Modelling and Software</i> , 2007 , 22, 128-136	5.2	44
81	Uncertainty in high and low flows due to model structure and parameter errors. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 319-332	3.5	43
80	Uncertainty analysis in statistical modeling of extreme hydrological events. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 567-578	3.5	42
79	Augmentations to the Noah Model Physics for Application to the Yellow River Source Area. Part I: Soil Water Flow. <i>Journal of Hydrometeorology</i> , 2015 , 16, 2659-2676	3.7	41
78	Extreme daily precipitation in Western Europe with climate change at appropriate spatial scales. <i>International Journal of Climatology</i> , 2002 , 22, 69-85	3.5	40
77	The water footprint of wood for lumber, pulp, paper, fuel and firewood. <i>Advances in Water Resources</i> , 2017 , 107, 490-501	4.7	38
76	The influence of parametric uncertainty on the relationships between HBV model parameters and climatic characteristics. <i>Hydrological Sciences Journal</i> , 2015 , 60, 1299-1316	3.5	37
75	Probabilistic flood extent estimates from social media flood observations. <i>Natural Hazards and Earth System Sciences</i> , 2017 , 17, 735-747	3.9	36
74	Seasonality of low flows and dominant processes in the Rhine River. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 489-503	3.5	36
73	Augmentations to the Noah Model Physics for Application to the Yellow River Source Area. Part II: Turbulent Heat Fluxes and Soil Heat Transport. <i>Journal of Hydrometeorology</i> , 2015 , 16, 2677-2694	3.7	34
72	Appropriate Spatial Sampling of Rainfall or Flow Simulation/Echantillonnage Spatial de la Pluie Appropriate pour la Simulation Des Débits. <i>Hydrological Sciences Journal</i> , 2005 , 50,	3.5	34
71	Determination and integration of appropriate spatial scales for river basin modelling. <i>Hydrological Processes</i> , 2003 , 17, 2581-2598	3.3	31
70	Trend analysis of hydro-climatic variables in the north of Iran. <i>Theoretical and Applied Climatology</i> , 2019 , 136, 85-97	3	29
69	Identification and Quantification of Uncertainties in a Hydrodynamic River Model Using Expert Opinions. <i>Water Resources Management</i> , 2011 , 25, 601-622	3.7	27
68	Adapting Multireservoir Operation to Shifting Patterns of Water Supply and Demand. <i>Water Resources Management</i> , 2014 , 28, 625-643	3.7	25
67	Balance between calibration objectives in a conceptual hydrological model. <i>Hydrological Sciences Journal</i> , 2010 , 55, 1017-1032	3.5	24
66	An appropriateness framework for the Dutch Meuse decision support system. <i>Environmental Modelling and Software</i> , 2007 , 22, 1667-1678	5.2	24
65	Impacts of climate change on the seasonality of low flows in 134 catchments in the River Rhine basin using an ensemble of bias-corrected regional climate simulations. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 4241-4257	5.5	23

64	Detection of trends in precipitation extremes in Zhejiang, east China. <i>Theoretical and Applied Climatology</i> , 2012 , 107, 201-210	3	21
63	Identification of appropriate lags and temporal resolutions for low flow indicators in the River Rhine to forecast low flows with different lead times. <i>Hydrological Processes</i> , 2013 , 27, 2742-2758	3-3	21
62	Attribution of changes in stream flow to land use change and climate change in a mesoscale tropical catchment in Java, Indonesia 2017 , 48, 1143-1155		20
61	Under-canopy turbulence and root water uptake of a Tibetan meadow ecosystem modeled by Noah-MP. <i>Water Resources Research</i> , 2015 , 51, 5735-5755	5-4	20
60	Modelling the effects of spatial and temporal resolution of rainfall and basin model on extreme river discharge. <i>Hydrological Sciences Journal</i> , 2002 , 47, 307-320	3-5	19
59	Impacts of Noah model physics on catchment-scale runoff simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 807-832	4-4	19
58	Simulating impacts of climate change on river discharges in the Nile basin. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 696-709	3	18
57	Improved Simulation of Peak Flows under Climate Change: Postprocessing or Composite Objective Calibration?. <i>Journal of Hydrometeorology</i> , 2015 , 16, 2187-2208	3-7	17
56	Quantification of uncertainty in design water levels due to uncertain bed form roughness in the Dutch river Waal. <i>Hydrological Processes</i> , 2013 , 27, 1646-1663	3-3	16
55	Uncertainty of design water levels due to combined bed form and vegetation roughness in the Dutch River Waal. <i>Journal of Flood Risk Management</i> , 2013 , 6, 302-318	3-1	16
54	Potential water supply of a small reservoir and alluvial aquifer system in southern Zimbabwe. <i>Physics and Chemistry of the Earth</i> , 2008 , 33, 633-639	3	16
53	Quantification of parametric uncertainty of ANN models with GLUE method for different streamflow dynamics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 993-1010	3-5	15
52	Impact assessment of multiple uncertainty sources on high flows under climate change 2016 , 47, 61-74		15
51	Uncertainty in Future High Flows in Qiantang River Basin, China. <i>Journal of Hydrometeorology</i> , 2015 , 16, 363-380	3-7	14
50	Application and recalibration of soil water retention pedotransfer functions in a tropical upstream catchment: case study in Bengawan Solo, Indonesia. <i>Journal of Hydrology and Hydromechanics</i> , 2017 , 65, 307-320	2-1	14
49	Climatic Variability and Periodicity for Upstream Sub-Basins of the Yangtze River, China. <i>Water (Switzerland)</i> , 2020 , 12, 842	3	14
48	Hydrodynamic modelling of a tidal delta wetland using an enhanced quasi-2D model. <i>Journal of Hydrology</i> , 2018 , 559, 315-326	6	13
47	Modelling the Influence of Groundwater Abstractions on the Water Level of Lake Naivasha, Kenya Under Data-Scarce Conditions. <i>Water Resources Management</i> , 2015 , 29, 4447-4463	3-7	12

46	Hydrological Assessment of the 1973 Treaty on the Transboundary Helmand River, Using the SWAT Model and a Global Climate Database. <i>Water Resources Management</i> , 2016 , 30, 4681-4694	3.7	11
45	Validation of an ANN Flow Prediction Model Using a Multistation Cluster Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 262-271	1.8	11
44	Impacts of climate change on characteristics of daily-scale rainfall events based on nine selected GCMs under four CMIP5 RCP scenarios in Qu River basin, east China. <i>International Journal of Climatology</i> , 2020 , 40, 887-907	3.5	10
43	Performance of ensemble streamflow forecasts under varied hydrometeorological conditions. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 5273-5291	5.5	9
42	Additional Value of Using Satellite-Based Soil Moisture and Two Sources of Groundwater Data for Hydrological Model Calibration. <i>Water (Switzerland)</i> , 2019 , 11, 2083	3	9
41	Assessment of extreme flows and uncertainty under climate change: disentangling the uncertainty contribution of representative concentration pathways, global climate models and internal climate variability. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 3251-3269	5.5	9
40	Improving GALDIT-based groundwater vulnerability predictive mapping using coupled resampling algorithms and machine learning models. <i>Journal of Hydrology</i> , 2021 , 598, 126370	6	9
39	Impact of land use and water management on hydrological processes under varying climatic conditions. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 613-614	3	8
38	Impact of uncertainties in discharge determination on the parameter estimation and performance of a hydrological model 2013 , 44, 454-466		7
37	Review and classification of indicators of green water availability and scarcity		7
36	Development and hydrometeorological evaluation of a new stochastic daily rainfall model: Coupling Markov chain with rainfall event model. <i>Journal of Hydrology</i> , 2020 , 589, 125337	6	7
35	Improving daily stochastic streamflow prediction: comparison of novel hybrid data-mining algorithms. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1457-1474	3.5	7
34	Sensitivity of Streamflow Characteristics to Different Spatial Land-Use Configurations in Tropical Catchment. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019 , 145, 04019054	2.8	6
33	Attributing Changes in Streamflow to Land Use and Climate Change for 472 Catchments in Australia and the United States. <i>Water (Switzerland)</i> , 2019 , 11, 1059	3	6
32	Impacts of land use changes and climate variability on transboundary Hirmand River using SWAT. <i>Journal of Water and Climate Change</i> , 2020 , 11, 1695-1711	2.3	6
31	Propagation of Discharge Uncertainty in a Flood Damage Model For the Meuse River 2007 , 293-310		6
30	Effects of differential hillslope-scale water retention characteristics on rainfall runoff response at the Landscape Evolution Observatory. <i>Hydrological Processes</i> , 2018 , 32, 2118-2127	3.3	5
29	Separation of the Impact of Landuse/Landcover Change and Climate Change on Runoff in the Upstream Area of the Yangtze River, China. <i>Water Resources Management</i> , 2016 , 30, 4681-4694	3.7	5

28	Changes in monthly streamflow in the Hindukush-Karakoram-Himalaya Region of Pakistan using innovative polygon trend analysis. <i>Stochastic Environmental Research and Risk Assessment</i> , 1	3.5	5
27	Comparison of Self-Organizing Map, Artificial Neural Network, and Co-Active Neuro-Fuzzy Inference System Methods in Simulating Groundwater Quality: Geospatial Artificial Intelligence. <i>Water Resources Management</i> , 1	3.7	5
26	Extreme value statistics for annual minimum and trough-under-threshold precipitation at different spatio-temporal scales. <i>Hydrological Sciences Journal</i> , 2010 , 55, 1289-1301	3.5	4
25	Deterministic-statistical Model Coupling in a DSS for River-Basin Management. <i>Environmental Modeling and Assessment</i> , 2009 , 14, 595-606	2	4
24	Quantifying the robustness of optimal reservoir operation for the Xinanjiang-Fuchunjiang Reservoir Cascade. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 79-86	1.4	3
23	The influence of conceptual model structure on model performance: a comparative study for 237 French catchments		3
22	Uncertainty Analysis in River Modelling. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2015 , 255-277	0.1	3
21	Hydrological Balance of Lake Tana, Upper Blue Nile Basin, Ethiopia 2011 , 69-89		3
20	Water Footprint, Blue Water Scarcity, and Economic Water Productivity of Irrigated Crops in Peshawar Basin, Pakistan. <i>Water (Switzerland)</i> , 2021 , 13, 1249	3	3
19	Quantifying relative contribution of land use change and climate change to streamflow alteration in the Bengawan Solo River, Indonesia. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1059-1068	3.5	3
18	Reply to van Noordwijk and Ellison: Moisture recycling: Key to assess hydrological impacts of land cover changes, but not to quantify water allocation to competing demands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8104	11.5	2
17	A Comparison of Nonlinear Stochastic Self-Exciting Threshold Autoregressive and Chaotic k-Nearest Neighbour Models in Daily Streamflow Forecasting. <i>Water Resources Management</i> , 2016 , 30, 1515-1531	3.7	2
16	Performance of ensemble streamflow forecasts under varied hydrometeorological conditions		2
15	Evaluation of ECMWF mid-range ensemble forecasts of precipitation for the Karun River basin. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 61-70	3	1
14	Attribution of Changes in Streamflow to Climate Change and Land Cover Change in Yangtze River Source Region, China. <i>Water (Switzerland)</i> , 2022 , 14, 259	3	1
13	Evaluation of MODIS-Landsat and AVHRR-Landsat NDVI data fusion using a single pair base reference image: a case study in a tropical upstream catchment on Java, Indonesia. <i>International Journal of Digital Earth</i> , 2022 , 15, 164-197	3.9	1
12	Quantification of uncertainties in a 2D hydraulic model for the Dutch river Rhine using expert opinions 2009 , 195-198		1
11	The skill of seasonal ensemble low flow forecasts for four different hydrological models		1

10	Satellite rainfall bias assessment for crop growth simulation [A case study of maize growth in Kenya. <i>Agricultural Water Management</i> , 2021 , 258, 107204	5.9	1
9	A new framework for a multi-site stochastic daily rainfall model: Coupling a univariate Markov chain model with a multi-site rainfall event model. <i>Journal of Hydrology</i> , 2021 , 598, 126478	6	1
8	Hydrological responses to climate change in Yarlung Zangbo River basin, Southwest China. <i>Journal of Hydrology</i> , 2021 , 597, 125761	6	1
7	A two-step approach to investigate the effect of rating curve uncertainty in the Elbe decision support system. <i>Journal of Zhejiang University: Science A</i> , 2008 , 9, 1229-1238	2.1	0
6	Blue water footprint caps per sub-catchment to mitigate water scarcity in a large river basin: The case of the Yellow River in China. <i>Journal of Hydrology</i> , 2021 , 603, 126992	6	0
5	Historical simulation of maize water footprints with a new global gridded crop model ACEA. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 923-940	5.5	0
4	Effect of data length, spin-up period and spatial model resolution on fully distributed hydrological model calibration in the Moselle basin. <i>Hydrological Sciences Journal</i> , 1-14	3.5	0
3	Use of machine learning and geographical information system to predict nitrate concentration in an unconfined aquifer in Iran. <i>Journal of Cleaner Production</i> , 2022 , 131847	10.3	0
2	Validation of a Model Appropriateness Framework Using the Elbe Decision Support System. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 193-218	0.4	
1	Uncertainty analysis of risk-based flood safety standards in the Netherlands through a scenario-based approach. <i>International Journal of River Basin Management</i> , 1-16	1.7	