

Peter Burek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

2,238
citations

22
h-index

47
g-index

67
ext. papers

3,023
ext. citations

7.7
avg, IF

4.93
L-index

#	Paper	IF	Citations
44	GloFAS Global ensemble streamflow forecasting and flood early warning. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 1161-1175	5.5	269
43	Global warming increases the frequency of river floods in Europe. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 2247-2260	5.5	262
42	Modeling global water use for the 21st century: the Water Futures and Solutions (WfAS) initiative and its approaches. <i>Geoscientific Model Development</i> , 2016 , 9, 175-222	6.3	231
41	Hyper-resolution global hydrological modelling: what is next?. <i>Hydrological Processes</i> , 2015 , 29, 310-320	3.3	215
40	Managing the effects of multiple stressors on aquatic ecosystems under water scarcity. The GLOBAQUA project. <i>Science of the Total Environment</i> , 2015 , 503-504, 3-9	10.2	128
39	Global assessment of water challenges under uncertainty in water scarcity projections. <i>Nature Sustainability</i> , 2018 , 1, 486-494	22.1	126
38	Global exposure and vulnerability to multi-sector development and climate change hotspots. <i>Environmental Research Letters</i> , 2018 , 13, 055012	6.2	100
37	South-to-North Water Diversion stabilizing Beijing's groundwater levels. <i>Nature Communications</i> , 2020 , 11, 3665	17.4	90
36	Global terrestrial water storage and drought severity under climate change. <i>Nature Climate Change</i> , 2021 , 11, 226-233	21.4	85
35	Assimilation of MODIS Snow Cover Area Data in a Distributed Hydrological Model Using the Particle Filter. <i>Remote Sensing</i> , 2013 , 5, 5825-5850	5	74
34	The impact of lake and reservoir parameterization on global streamflow simulation. <i>Journal of Hydrology</i> , 2017 , 548, 552-568	6	54
33	Modelling the socio-economic impact of river floods in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1401-1411	3.9	46
32	Technologies to Support Community Flood Disaster Risk Reduction. <i>International Journal of Disaster Risk Science</i> , 2016 , 7, 198-204	4.6	43
31	Excess nutrient loads to Lake Taihu: Opportunities for nutrient reduction. <i>Science of the Total Environment</i> , 2019 , 664, 865-873	10.2	42
30	Filling the gaps: Calibrating a rainfall-runoff model using satellite-derived surface water extent. <i>Remote Sensing of Environment</i> , 2015 , 171, 118-131	13.2	42
29	Integrating remotely sensed surface water extent into continental scale hydrology. <i>Journal of Hydrology</i> , 2016 , 543, 659-670	6	41
28	A dynamic runoff co-efficient to improve flash flood early warning in Europe: evaluation on the 2013 central European floods in Germany. <i>Meteorological Applications</i> , 2015 , 22, 410-418	2.1	41

27	Multi-model and multi-scenario assessments of Asian water futures: The Water Futures and Solutions (WFaS) initiative. <i>Earth's Future</i> , 2017 , 5, 823-852	7.9	35
26	A Continental-Scale Hydroeconomic Model for Integrating Water-Energy-Land Nexus Solutions. <i>Water Resources Research</i> , 2018 , 54, 7511-7533	5.4	34
25	Development of the Community Water Model (CWatM v1.04) a high-resolution hydrological model for global and regional assessment of integrated water resources management. <i>Geoscientific Model Development</i> , 2020 , 13, 3267-3298	6.3	28
24	Co-designing Indus Water-Energy-Land Futures. <i>One Earth</i> , 2019 , 1, 185-194	8.1	24
23	Solar and wind energy enhances drought resilience and groundwater sustainability. <i>Nature Communications</i> , 2019 , 10, 4893	17.4	24
22	Bridging global, basin and local-scale water quality modeling towards enhancing water quality management worldwide. <i>Current Opinion in Environmental Sustainability</i> , 2019 , 36, 39-48	7.2	22
21	The NEXus Solutions Tool (NEST) v1.0: an open platform for optimizing multi-scale energy-water-land system transformations. <i>Geoscientific Model Development</i> , 2020 , 13, 1095-1121	6.3	19
20	Uncertainty of simulated groundwater recharge at different global warming levels: a global-scale multi-model ensemble study. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 787-810	5.5	18
19	Assessing the quality of a real-time Snow Cover Area product for hydrological applications. <i>Remote Sensing of Environment</i> , 2012 , 127, 271-287	13.2	15
18	Assessing the role of uncertain precipitation estimates on the robustness of hydrological model parameters under highly variable climate conditions. <i>Journal of Hydrology: Regional Studies</i> , 2016 , 8, 112-129	3.6	15
17	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. <i>Water (Switzerland)</i> , 2019 , 11, 2223	3	14
16	Using the Budyko Framework for Calibrating a Global Hydrological Model. <i>Water Resources Research</i> , 2020 , 56, e2019WR026280	5.4	14
15	A nexus modeling framework for assessing water scarcity solutions. <i>Current Opinion in Environmental Sustainability</i> , 2019 , 40, 72-80	7.2	14
14	Global warming increases the frequency of river floods in Europe		13
13	Increasing nitrogen export to sea: A scenario analysis for the Indus River. <i>Science of the Total Environment</i> , 2019 , 694, 133629	10.2	12
12	Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication. <i>Geoscientific Model Development</i> , 2021 , 14, 3843-3878	6.3	12
11	Towards a Pan-European Integrated Groundwater and Surface Water Model: Development and Applications. <i>Environmental Processes</i> , 2017 , 4, 81-93	2.8	8
10	Multi-Criteria Framework to Assess Large Scale Water Resources Policy Measures. <i>Water (Switzerland)</i> , 2016 , 8, 370	3	5

9	A quantitative evaluation of the issue of drought definition: a source of disagreement in future drought assessments. <i>Environmental Research Letters</i> , 2021 , 16, 104001	6.2	5
8	Development of the Community Water Model (CWatM v1.04) A high-resolution hydrological model for global and regional assessment of integrated water resources management 2019 ,		3
7	The Nexus Solutions Tool (NEST): An open platform for optimizing multi-scale energy-water-land system transformations 2019 ,		3
6	East African Community Water Vision. Regional Scenarios for Human - Natural Water System Transformations. <i>SSRN Electronic Journal</i> ,	1	2
5	Understanding each other's models: a standard representation of global water models to support improvement, intercomparison, and communication		2
4	Modelling the socio-economic impact of river floods in Europe 2016 ,		1
3	Co-development of East African regional water scenarios for 2050. <i>One Earth</i> , 2021 , 4, 434-447	8.1	0
2	Modelling rotavirus concentrations in rivers: Assessing Uganda's present and future microbial water quality. <i>Water Research</i> , 2021 , 204, 117615	12.5	0
1	Capturing Stakeholders' Challenges of the Food-Water-Energy Nexus: A Participatory Approach for Pune and the Bhima Basin, India. <i>Sustainability</i> , 2022 , 14, 5323	3.6	0