

Juraj Parajka

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

8,377
citations

57719

44
h-index

51562

86
g-index

173
all docs

173
docs citations

173
times ranked

7334
citing authors

#	ARTICLE	IF	CITATIONS
1	Changing climate both increases and decreases European river floods. <i>Nature</i> , 2019, 573, 108-111.	13.7	639
2	Changing climate shifts timing of European floods. <i>Science</i> , 2017, 357, 588-590.	6.0	584
3	Understanding flood regime changes in Europe: a state-of-the-art assessment. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2735-2772.	1.9	423
4	Time stability of catchment model parameters: Implications for climate impact analyses. <i>Water Resources Research</i> , 2011, 47, .	1.7	334
5	A comparison of regionalisation methods for catchment model parameters. <i>Hydrology and Earth System Sciences</i> , 2005, 9, 157-171.	1.9	309
6	Land use change impacts on floods at the catchment scale: Challenges and opportunities for future research. <i>Water Resources Research</i> , 2017, 53, 5209-5219.	1.7	269
7	Bacterial diversity along a 2600 km river continuum. <i>Environmental Microbiology</i> , 2015, 17, 4994-5007.	1.8	265
8	Spatio-temporal combination of MODIS images – potential for snow cover mapping. <i>Water Resources Research</i> , 2008, 44, .	1.7	254
9	The value of MODIS snow cover data in validating and calibrating conceptual hydrologic models. <i>Journal of Hydrology</i> , 2008, 358, 240-258.	2.3	213
10	Spatio-temporal variability of event runoff coefficients. <i>Journal of Hydrology</i> , 2006, 331, 591-604.	2.3	212
11	Validation of MODIS snow cover images over Austria. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 679-689.	1.9	199
12	Comparative assessment of predictions in ungauged basins – Part 1: Runoff-hydrograph studies. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1783-1795.	1.9	186
13	The June 2013 flood in the Upper Danube Basin, and comparisons with the 2002, 1954 and 1899 floods. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 5197-5212.	1.9	182
14	Seasonal characteristics of flood regimes across the Alpine–Carpathian range. <i>Journal of Hydrology</i> , 2010, 394, 78-89.	2.3	181
15	Uncertainty and multiple objective calibration in regional water balance modelling: case study in 320 Austrian catchments. <i>Hydrological Processes</i> , 2007, 21, 435-446.	1.1	157
16	Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology. <i>Water Resources Research</i> , 2012, 48, .	1.7	156
17	Current European flood-rich period exceptional compared with past 500 years. <i>Nature</i> , 2020, 583, 560-566.	13.7	154
18	Assimilating scatterometer soil moisture data into conceptual hydrologic models at the regional scale. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 353-368.	1.9	142

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19	A regional snow-line method for estimating snow cover from MODIS during cloud cover. Journal of Hydrology, 2010, 381, 203-212.	2.3	137
20	More green and less blue water in the Alps during warmer summers. Nature Climate Change, 2020, 10, 155-161.	8.1	134
21	Scale effects in conceptual hydrological modeling. Water Resources Research, 2009, 45, .	1.7	124
22	Increasing river floods: fiction or reality?. Wiley Interdisciplinary Reviews: Water, 2015, 2, 329-344.	2.8	123
23	Regional calibration of catchment models: Potential for ungauged catchments. Water Resources Research, 2007, 43, .	1.7	118
24	Multivariate Interpolation of Precipitation Using Regularized Spline with Tension. Transactions in GIS, 2002, 6, 135-150.	1.0	107
25	Hydrology under change: an evaluation protocol to investigate how hydrological models deal with changing catchments. Hydrological Sciences Journal, 2015, 60, 1184-1199.	1.2	105
26	Comparative assessment of predictions in ungauged basins " Part 2: Flood and low flow studies. Hydrology and Earth System Sciences, 2013, 17, 2637-2652.	1.9	95
27	Comparative assessment of predictions in ungauged basins " Part 3: Runoff signatures in Austria. Hydrology and Earth System Sciences, 2013, 17, 2263-2279.	1.9	93
28	The influence of non-stationarity in extreme hydrological events on flood frequency estimation. Journal of Hydrology and Hydromechanics, 2016, 64, 426-437.	0.7	88
29	Constraining Conceptual Hydrological Models With Multiple Information Sources. Water Resources Research, 2018, 54, 8332-8362.	1.7	85
30	Potential of time-lapse photography of snow for hydrological purposes at the small catchment scale. Hydrological Processes, 2012, 26, 3327-3337.	1.1	84
31	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	1.9	83
32	The Hydrological Open Air Laboratory (HOAL) in Petzenkirchen: a hypothesis-driven observatory. Hydrology and Earth System Sciences, 2016, 20, 227-255.	1.9	77
33	MODIS snow cover mapping accuracy in a small mountain catchment " comparison between open and forest sites. Hydrology and Earth System Sciences, 2012, 16, 2365-2377.	1.9	75
34	Attribution of regional flood changes based on scaling fingerprints. Water Resources Research, 2016, 52, 5322-5340.	1.7	75
35	Matching ERS scatterometer based soil moisture patterns with simulations of a conceptual dual layer hydrologic model over Austria. Hydrology and Earth System Sciences, 2009, 13, 259-271.	1.9	69
36	Comparative analysis of the seasonality of hydrological characteristics in Slovakia and Austria / Analyse comparative de la saisonnalit� de caract�ristiques hydrologiques en Slovaquie et en Autriche. Hydrological Sciences Journal, 2009, 54, 456-473.	1.2	68

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37	Detection of trends in magnitude and frequency of flood peaks across Europe. Hydrological Sciences Journal, 2018, 63, 493-512.	1.2	68
38	Dependence between flood peaks and volumes: a case study on climate and hydrological controls. Hydrological Sciences Journal, 2015, 60, 968-984.	1.2	67
39	Estimating degree-day factors from MODIS for snowmelt runoff modeling. Hydrology and Earth System Sciences, 2014, 18, 4773-4789.	1.9	63
40	Virtual laboratories: new opportunities for collaborative water science. Hydrology and Earth System Sciences, 2015, 19, 2101-2117.	1.9	63
41	Hydrological drought types in cold climates: quantitative analysis of causing factors and qualitative survey of impacts. Hydrology and Earth System Sciences, 2015, 19, 1993-2016.	1.9	62
42	Comparison of mapping approaches of design annual maximum daily precipitation. Atmospheric Research, 2009, 92, 289-307.	1.8	56
43	Estimation of regional snowline elevation (RSLE) from MODIS images for seasonally snow covered mountain basins. Journal of Hydrology, 2014, 519, 1769-1778.	2.3	50
44	A novel integrated modelling framework to assess the impacts of climate and socio-economic drivers on land use and water quality. Science of the Total Environment, 2017, 579, 1137-1151.	3.9	46
45	Why does a conceptual hydrological model fail to correctly predict discharge changes in response to climate change?. Hydrology and Earth System Sciences, 2020, 24, 3493-3511.	1.9	46
46	rtop: An R package for interpolation of data with a variable spatial support, with an example from river networks. Computers and Geosciences, 2014, 67, 180-190.	2.0	43
47	Long term variability of the Danube River flow and its relation to precipitation and air temperature. Journal of Hydrology, 2014, 519, 871-880.	2.3	41
48	Evaluating the snow component of a flood forecasting model. Hydrology Research, 2012, 43, 762-779.	1.1	37
49	Process-based interpretation of conceptual hydrological model performance using a multinational catchment set. Water Resources Research, 2017, 53, 7247-7268.	1.7	36
50	Prediction of flow duration curves in ungauged basins. , 2013, , 135-162.		35
51	Mapping snow cover from daily Collection 6 MODIS products over Austria. Journal of Hydrology, 2020, 590, 125548.	2.3	35
52	Uncertainty contributions to low-flow projections in Austria. Hydrology and Earth System Sciences, 2016, 20, 2085-2101.	1.9	34
53	Flashiness of mountain streams in Slovakia and Austria. Journal of Hydrology, 2011, 405, 392-401.	2.3	33
54	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. Proceedings of the International Association of Hydrological Sciences, 0, 370, 89-95.	1.0	32

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55	The Added Value of Different Data Types for Calibrating and Testing a Hydrologic Model in a Small Catchment. <i>Water Resources Research</i> , 2020, 56, e2019WR026153.	1.7	30
56	Modelled impacts of policies and climate change on land use and water quality in Austria. <i>Land Use Policy</i> , 2018, 76, 500-514.	2.5	28
57	The role of station density for predicting daily runoff by top-kriging interpolation in Austria. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 228-234.	0.7	27
58	A regional comparative analysis of empirical and theoretical flood peak-volume relationships. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 367-381.	0.7	26
59	The effect of the snow weighting on the temporal stability of hydrologic model efficiency and parameters. <i>Journal of Hydrology</i> , 2020, 583, 124639.	2.3	25
60	The value of ASCAT soil moisture and MODIS snow cover data for calibrating a conceptual hydrologic model. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1389-1410.	1.9	25
61	Modelling the interplay of future changes and wastewater management measures on the microbiological river water quality considering safe drinking water production. <i>Science of the Total Environment</i> , 2021, 768, 144278.	3.9	22
62	Separation of Scales in Transpiration Effects on Low Flows: A Spatial Analysis in the Hydrological Open Air Laboratory. <i>Water Resources Research</i> , 2018, 54, 6168-6188.	1.7	21
63	Factors controlling alterations in the performance of a runoff model in changing climate conditions. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 381-392.	0.7	21
64	A three-pillar approach to assessing climate impacts on low flows. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3967-3985.	1.9	20
65	Importance of the informative content in the study area when regionalising rainfall-runoff model parameters: the role of nested catchments and gauging station density. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5149-5171.	1.9	20
66	Evaluation of snow cover and depth simulated by a land surface model using detailed regional snow observations from Austria. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
67	Validation of drought indices using environmental indicators: streamflow and carbon flux data. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 218-226.	1.9	19
68	A large sample analysis of European rivers on seasonal river flow correlation and its physical drivers. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 73-91.	1.9	18
69	Floods in Austria. , 2019, , 169-177.		18
70	Variability of snow line elevation, snow cover area and depletion in the main Slovak basins in winters 2001â€“2014. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 12-22.	0.7	17
71	Technical note: Hydrology modelling R packages â€“ a unified analysis of models and practicalities from a user perspective. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3937-3973.	1.9	17
72	Potential of time-lapse photography for identifying saturation area dynamics on agricultural hillslopes. <i>Hydrological Processes</i> , 2017, 31, 3610-3627.	1.1	16

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73	A framework estimating cumulative impact of damming on downstream water availability. <i>Journal of Hydrology</i> , 2019, 575, 612-627.	2.3	16
74	Variability of seasonal floods in the Upper Danube River basin. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 357-366.	0.7	16
75	MODIS-Based Snow Cover Products, Validation, and Hydrologic Applications. , 2012, , 185-212.		15
76	Modis Snowline Elevation Changes During Snowmelt Runoff Events in Europe. <i>Journal of Hydrology and Hydromechanics</i> , 2019, 67, 101-109.	0.7	14
77	The Impact of the Variability of Precipitation and Temperatures on the Efficiency of a Conceptual Rainfall-Runoff Model. <i>Slovak Journal of Civil Engineering</i> , 2016, 24, 1-7.	0.2	13
78	The KÅ¼htai data set: 25 years of lysimetric, snow pillow, and meteorological measurements. <i>Water Resources Research</i> , 2017, 53, 5158-5165.	1.7	11
79	Climate change impact and uncertainty analysis on hydrological extremes in a French Mediterranean catchment. <i>Hydrological Sciences Journal</i> , 2021, 66, 888-903.	1.2	10
80	Controls on event runoff coefficients and recession coefficients for different runoff generation mechanisms identified by three regression methods. <i>Journal of Hydrology and Hydromechanics</i> , 2020, 68, 155-169.	0.7	10
81	Characteristics and process controls of statistical flood moments in Europe – a data-based analysis. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5535-5560.	1.9	10
82	Spatial and temporal variability of event runoff characteristics in a small agricultural catchment. <i>Hydrological Sciences Journal</i> , 2020, 65, 2185-2195.	1.2	9
83	Assessment of past flood changes across Europe based on flood-generating processes. <i>Hydrological Sciences Journal</i> , 2020, 65, 1830-1847.	1.2	9
84	Conceptual model building inspired by field-mapped runoff generation mechanisms. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 303-315.	0.7	9
85	Validation of the operational MSG-SEVIRI snow cover product over Austria. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 763-774.	1.9	7
86	Emerging outcomes from a cross-disciplinary doctoral programme on water resource systems. <i>Water Policy</i> , 2017, 19, 463-478.	0.7	7
87	A geostatistical data-assimilation technique for enhancing macro-scale rainfall–runoff simulations. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4633-4648.	1.9	7
88	Impact of Climate and Geology on Event Runoff Characteristics at the Regional Scale. <i>Water (Switzerland)</i> , 2020, 12, 3457.	1.2	7
89	Mimicry of a Conceptual Hydrological Model (HBV): What's in a Name?. <i>Water Resources Research</i> , 2021, 57, e2020WR029143.	1.7	7
90	Seasonality of runoff and precipitation regimes along transects in Peru and Austria. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 347-358.	0.7	7

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91	Uncertainty in the Number of Calibration Repetitions of a Hydrologic Model in Varying Climatic Conditions. <i>Water (Switzerland)</i> , 2020, 12, 2362.	1.2	6
92	Mapping of Gumbel Extreme Value Distribution Parameters for Estimation of Design Precipitation Totals at Ungauged Sites. , 2009, , 129-136.		6
93	Invigorating Hydrological Research Through Journal Publications. <i>Water Resources Research</i> , 2020, 56, .	1.7	5
94	Hydrology of the Carpathian Basin: interactions of climatic drivers and hydrological processes on local and regional scales – HydroCarpath Research. <i>Journal of Hydrology and Hydromechanics</i> , 2020, 68, 128-133.	0.7	5
95	Similarity of empirical copulas of flood peak-volume relationships: a regional case study of North-West Austria. <i>Contributions To Geophysics and Geodesy</i> , 2016, 46, 155-178.	0.2	4
96	Invigorating hydrological research through journal publications. <i>Hydrological Sciences Journal</i> , 2018, 63, 1113-1117.	1.2	4
97	High-Frequency Stable-Isotope Measurements of Evapotranspiration Partitioning in a Maize Field. <i>Water (Switzerland)</i> , 2020, 12, 3048.	1.2	4
98	Stepwise prediction of runoff using proxy data in a small agricultural catchment. <i>Journal of Hydrology and Hydromechanics</i> , 2021, 69, 65-75.	0.7	4
99	Thematic Issue on Floods in the Danube basin – processes, patterns, predictions. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 301-303.	0.7	4
100	Fluctuations of Winter Floods in Small Austrian and Ukrainian Catchments. <i>Hydrology</i> , 2022, 9, 38.	1.3	4
101	Comparison of winter design floods between Austrian and Ukrainian Danube River tributaries. <i>Acta Hydrologica Slovaca</i> , 2021, 22, 256-263.	0.1	4
102	Joint editorial: Invigorating hydrological research through journal publications. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5735-5739.	1.9	3
103	Thematic Issue on Snow Resources and Hydrological Cycle. <i>Journal of Hydrology and Hydromechanics</i> , 2019, 67, 1-3.	0.7	3
104	Partitioning evapotranspiration using stable isotopes and Lagrangian dispersion analysis in a small agricultural catchment. <i>Journal of Hydrology and Hydromechanics</i> , 2020, 68, 134-143.	0.7	3
105	Process-based selection of copula types for flood peak-volume relationships in Northwest Austria: a case study. <i>Contributions To Geophysics and Geodesy</i> , 2016, 46, 245-268.	0.2	2
106	The value of satellite soil moisture and snow cover data for the transfer of hydrological model parameters to ungauged sites. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1779-1799.	1.9	2
107	Detecting Similarity in Flood Seasonality of Slovak and Austrian Catchments. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 022027.	0.3	1
108	Human signatures derived from nighttime lights along the Eastern Alpine river network in Austria and Italy. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 373, 131-136.	1.0	1

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109	Joint Editorial Invigorating Hydrological Research through Journal Publications. Journal of Hydrology and Hydromechanics, 2018, 66, 257-260.	0.7	1
110	Incorporating Advanced Scatterometer Surface and Root Zone Soil Moisture Products into the Calibration of a Conceptual Semi-Distributed Hydrological Model. Water (Switzerland), 2021, 13, 3366.	1.2	1
111	Invigorating Hydrological Research through Journal Publications. Journal of Hydrometeorology, 2018, 19, 1713-1719.	0.7	0
112	Joint Editorial: Invigorating Hydrological Research through Journal Publications. Vadose Zone Journal, 2018, 17, 180001ed.	1.3	0
113	Invigorating hydrological research through journal publications. Ecohydrology, 2018, 11, e2016.	1.1	0
114	ENHANCING SIMULATION OF LOW AND HIGH FLOWS USING A TWO-REGIME SWITCHING RAINFALL-RUNOFF MODEL., 2017,,.		0
115	ASSESSMENT OF THE UNCERTAINTIES OF THE VALUES OF A HYDROLOGIC MODEL PARAMETERS TAKING INTO ACCOUNT TWO CALIBRATION APPROACHES., 2017,,.		0
116	Joint editorial: Invigorating hydrological research through journal publications. Proceedings of the International Association of Hydrological Sciences, 0, 380, 3-8.	1.0	0