Juraj Parajka

List of Publications by Year
in descending order

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116	8,377	57719	51562
papers	citations	44 h-index	86 g-index

173	173	173	7334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluctuations of Winter Floods in Small Austrian and Ukrainian Catchments. Hydrology, 2022, 9, 38.	1.3	4
2	The value of satellite soil moisture and snow cover data for the transfer of hydrological model parameters to ungauged sites. Hydrology and Earth System Sciences, 2022, 26, 1779-1799.	1.9	2
3	Stepwise prediction of runoff using proxy data in a small agricultural catchment. Journal of Hydrology and Hydromechanics, 2021, 69, 65-75.	0.7	4
4	The value of ASCAT soil moisture and MODIS snow cover data for calibrating a conceptual hydrologic model. Hydrology and Earth System Sciences, 2021, 25, 1389-1410.	1.9	25
5	Climate change impact and uncertainty analysis on hydrological extremes in a French Mediterranean catchment. Hydrological Sciences Journal, 2021, 66, 888-903.	1.2	10
6	Mimicry of a Conceptual Hydrological Model (HBV): What's in a Name?. Water Resources Research, 2021, 57, e2020WR029143.	1.7	7
7	Modelling the interplay of future changes and wastewater management measures on the microbiological river water quality considering safe drinking water production. Science of the Total Environment, 2021, 768, 144278.	3.9	22
8	Technical note: Hydrology modelling R packages â€“ a unified analysis of models and practicalities from a user perspective. Hydrology and Earth System Sciences, 2021, 25, 3937-3973.	1.9	17
9	Characteristics and process controls of statistical flood moments in Europe â€“ a data-based analysis. Hydrology and Earth System Sciences, 2021, 25, 5535-5560.	1.9	10
10	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
11	Comparison of winter design floods between Austrian and Ukrainian Danube River tributaries. Acta Hydrologica Slovaca, 2021, 22, 256-263.	0.1	4
12	Mapping snow cover from daily Collection 6 MODIS products over Austria. Journal of Hydrology, 2020, 590, 125548.	2.3	35
13	The Added Value of Different Data Types for Calibrating and Testing a Hydrologic Model in a Small Catchment. Water Resources Research, 2020, 56, e2019WR026153.	1.7	30
14	Current European flood-rich period exceptional compared with past 500Âyears. Nature, 2020, 583, 560-566.	13.7	154
15	High-Frequency Stable-Isotope Measurements of Evapotranspiration Partitioning in a Maize Field. Water (Switzerland), 2020, 12, 3048.	1.2	4
16	Spatial and temporal variability of event runoff characteristics in a small agricultural catchment. Hydrological Sciences Journal, 2020, 65, 2185-2195.	1.2	9
17	Uncertainty in the Number of Calibration Repetitions of a Hydrologic Model in Varying Climatic Conditions. Water (Switzerland), 2020, 12, 2362.	1.2	6
18	Impact of Climate and Geology on Event Runoff Characteristics at the Regional Scale. Water (Switzerland), 2020, 12, 3457.	1.2	7

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19	Invigorating Hydrological Research Through Journal Publications. Water Resources Research, 2020, 56, .	1.7	5
20	Assessment of past flood changes across Europe based on flood-generating processes. Hydrological Sciences Journal, 2020, 65, 1830-1847.	1.2	9
21	More green and less blue water in the Alps during warmer summers. Nature Climate Change, 2020, 10, 155-161.	8.1	134
22	The effect of the snow weighting on the temporal stability of hydrologic model efficiency and parameters. Journal of Hydrology, 2020, 583, 124639.	2.3	25
23	Controls on event runoff coefficients and recession coefficients for different runoff generation mechanisms identified by three regression methods. Journal of Hydrology and Hydromechanics, 2020, 68, 155-169.	0.7	10
24	Hydrology of the Carpathian Basin: interactions of climatic drivers and hydrological processes on local and regional scales â€“ HydroCarpath Research. Journal of Hydrology and Hydromechanics, 2020, 68, 128-133.	0.7	5
25	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
26	Importance of the informative content in the study area when regionalising rainfall-runoff model parameters: the role of nested catchments and gauging station density. Hydrology and Earth System Sciences, 2020, 24, 5149-5171.	1.9	20
27	Partitioning evapotranspiration using stable isotopes and Lagrangian dispersion analysis in a small agricultural catchment. Journal of Hydrology and Hydromechanics, 2020, 68, 134-143.	0.7	3
28	Detecting Similarity in Flood Seasonality of Slovak and Austrian Catchments. IOP Conference Series: Materials Science and Engineering, 2019, 471, 022027.	0.3	1
29	Changing climate both increases and decreases European river floods. Nature, 2019, 573, 108-111.	13.7	639
30	A large sample analysis of European rivers on seasonal river flow correlation and its physical drivers. Hydrology and Earth System Sciences, 2019, 23, 73-91.	1.9	18
31	A framework estimating cumulative impact of damming on downstream water availability. Journal of Hydrology, 2019, 575, 612-627.	2.3	16
32	Validation of drought indices using environmental indicators: streamflow and carbon flux data. Agricultural and Forest Meteorology, 2019, 265, 218-226.	1.9	19
33	Floods in Austria. , 2019, , 169-177.		18
34	Modis Snowline Elevation Changes During Snowmelt Runoff Events in Europe. Journal of Hydrology and Hydromechanics, 2019, 67, 101-109.	0.7	14
35	Thematic Issue on Snow Resources and Hydrological Cycle. Journal of Hydrology and Hydromechanics, 2019, 67, 1-3.	0.7	3
36	Detection of trends in magnitude and frequency of flood peaks across Europe. Hydrological Sciences Journal, 2018, 63, 493-512.	1.2	68

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37	Modelled impacts of policies and climate change on land use and water quality in Austria. Land Use Policy, 2018, 76, 500-514.	2.5	28
38	Joint editorial: Invigorating hydrological research through journal publications. Hydrology and Earth System Sciences, 2018, 22, 5735-5739.	1.9	3
39	Constraining Conceptual Hydrological Models With Multiple Information Sources. Water Resources Research, 2018, 54, 8332-8362.	1.7	85
40	A geostatistical data-assimilation technique for enhancing macro-scale rainfallâ€“runoff simulations. Hydrology and Earth System Sciences, 2018, 22, 4633-4648.	1.9	7
41	Invigorating Hydrological Research through Journal Publications. Journal of Hydrometeorology, 2018, 19, 1713-1719.	0.7	0
42	Separation of Scales in Transpiration Effects on Low Flows: A Spatial Analysis in the Hydrological Open Air Laboratory. Water Resources Research, 2018, 54, 6168-6188.	1.7	21
43	Joint Editorial: Invigorating Hydrological Research through Journal Publications. Vadose Zone Journal, 2018, 17, 180001ed.	1.3	0
44	Invigorating hydrological research through journal publications. Ecohydrology, 2018, 11, e2016.	1.1	0
45	Invigorating hydrological research through journal publications. Hydrological Sciences Journal, 2018, 63, 1113-1117.	1.2	4
46	Conceptual model building inspired by field-mapped runoff generation mechanisms. Journal of Hydrology and Hydromechanics, 2018, 66, 303-315.	0.7	9
47	Factors controlling alterations in the performance of a runoff model in changing climate conditions. Journal of Hydrology and Hydromechanics, 2018, 66, 381-392.	0.7	21
48	Joint Editorial Invigorating Hydrological Research through Journal Publications. Journal of Hydrology and Hydromechanics, 2018, 66, 257-260.	0.7	1
49	The KÃ¼htai data set: 25 years of lysimetric, snow pillow, and meteorological measurements. Water Resources Research, 2017, 53, 5158-5165.	1.7	11
50	Land use change impacts on floods at the catchment scale: Challenges and opportunities for future research. Water Resources Research, 2017, 53, 5209-5219.	1.7	269
51	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
52	Changing climate shifts timing of European floods. Science, 2017, 357, 588-590.	6.0	584
53	Emerging outcomes from a cross-disciplinary doctoral programme on water resource systems. Water Policy, 2017, 19, 463-478.	0.7	7
54	Processâ€based interpretation of conceptual hydrological model performance using a multinational catchment set. Water Resources Research, 2017, 53, 7247-7268.	1.7	36

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55	Potential of timeâ€‰lapse photography for identifying saturation area dynamics on agricultural hillslopes. Hydrological Processes, 2017, 31, 3610-3627.	1.1	16
56	Seasonality of runoff and precipitation regimes along transects in Peru and Austria. Journal of Hydrology and Hydromechanics, 2017, 65, 347-358.	0.7	7
57	ENHANCING SIMULATION OF LOW AND HIGH FLOWS USING A TWO-REGIME SWITCHING RAINFALL-RUNOFF MODEL. , 2017, , .		0
58	ASSESSMENT OF THE UNCERTAINTIES OF THE VALUES OF A HYDROLOGIC MODEL PARAMETERS TAKING INTO ACCOUNT TWO CALIBRATION APPROACHES. , 2017, , .		0
59	The Hydrological Open Air Laboratory (HOAL) in Petzenkirchen: a hypothesis-driven observatory. Hydrology and Earth System Sciences, 2016, 20, 227-255.	1.9	77
60	A three-pillar approach to assessing climate impacts on low flows. Hydrology and Earth System Sciences, 2016, 20, 3967-3985.	1.9	20
61	Uncertainty contributions to low-flow projections in Austria. Hydrology and Earth System Sciences, 2016, 20, 2085-2101.	1.9	34
62	The Impact of the Variability of Precipitation and Temperatures on the Efficiency of a Conceptual Rainfall-Runoff Model. Slovak Journal of Civil Engineering, 2016, 24, 1-7.	0.2	13
63	A regional comparative analysis of empirical and theoretical flood peak-volume relationships. Journal of Hydrology and Hydromechanics, 2016, 64, 367-381.	0.7	26
64	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
65	Similarity of empirical copulas of flood peak-volume relationships: a regional case study of North-West Austria. Contributions To Geophysics and Geodesy, 2016, 46, 155-178.	0.2	4
66	Attribution of regional flood changes based on scaling fingerprints. Water Resources Research, 2016, 52, 5322-5340.	1.7	75
67	Variability of snow line elevation, snow cover area and depletion in the main Slovak basins in winters 2001â€“2014. Journal of Hydrology and Hydromechanics, 2016, 64, 12-22.	0.7	17
68	Variability of seasonal floods in the Upper Danube River basin. Journal of Hydrology and Hydromechanics, 2016, 64, 357-366.	0.7	16
69	Thematic Issue on Floods in the Danube basin â€“ processes, patterns, predictions. Journal of Hydrology and Hydromechanics, 2016, 64, 301-303.	0.7	4
70	Process-based selection of copula types for flood peak-volume relationships in Northwest Austria: a case study. Contributions To Geophysics and Geodesy, 2016, 46, 245-268.	0.2	2
71	Increasing river floods: fiction or reality?. Wiley Interdisciplinary Reviews: Water, 2015, 2, 329-344.	2.8	123
72	Bacterial diversity along a 2600â€‰km river continuum. Environmental Microbiology, 2015, 17, 4994-5007.	1.8	265

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73	Virtual laboratories: new opportunities for collaborative water science. Hydrology and Earth System Sciences, 2015, 19, 2101-2117.	1.9	63
74	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
75	Dependence between flood peaks and volumes: a case study on climate and hydrological controls. Hydrological Sciences Journal, 2015, 60, 968-984.	1.2	67
76	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
77	The role of station density for predicting daily runoff by top-kriging interpolation in Austria. Journal of Hydrology and Hydromechanics, 2015, 63, 228-234.	0.7	27
78	Validation of the operational MSG-SEVIRI snow cover product over Austria. Hydrology and Earth System Sciences, 2014, 18, 763-774.	1.9	7
79	Estimating degree-day factors from MODIS for snowmelt runoff modeling. Hydrology and Earth System Sciences, 2014, 18, 4773-4789.	1.9	63
80	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	1.9	83
81	Understanding flood regime changes in Europe: a state-of-the-art assessment. Hydrology and Earth System Sciences, 2014, 18, 2735-2772.	1.9	423
82	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
83	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
84	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
85	Comparative assessment of predictions in ungauged basins â€“ Part 2: Flood and low flow studies. Hydrology and Earth System Sciences, 2013, 17, 2637-2652.	1.9	95
86	Prediction of flow duration curves in ungauged basins. , 2013, , 135-162.		35
87	The June 2013 flood in the Upper Danube Basin, and comparisons with the 2002, 1954 and 1899 floods. Hydrology and Earth System Sciences, 2013, 17, 5197-5212.	1.9	182
88	Comparative assessment of predictions in ungauged basins â€“ Part 3: Runoff signatures in Austria. Hydrology and Earth System Sciences, 2013, 17, 2263-2279.	1.9	93
89	Comparative assessment of predictions in ungauged basins â€“ Part 1: Runoff-hydrograph studies. Hydrology and Earth System Sciences, 2013, 17, 1783-1795.	1.9	186
90	Evaluating the snow component of a flood forecasting model. Hydrology Research, 2012, 43, 762-779.	1.1	37

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91	Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology. Water Resources Research, 2012, 48, .	1.7	156
92	MODIS snow cover mapping accuracy in a small mountain catchment â€“ comparison between open and forest sites. Hydrology and Earth System Sciences, 2012, 16, 2365-2377.	1.9	75
93	Potential of timeâ€lapse photography of snow for hydrological purposes at the small catchment scale. Hydrological Processes, 2012, 26, 3327-3337.	1.1	84
94	MODIS-Based Snow Cover Products, Validation, and Hydrologic Applications. , 2012, , 185-212.		15
95	Time stability of catchment model parameters: Implications for climate impact analyses. Water Resources Research, 2011, 47, .	1.7	334
96	Flashiness of mountain streams in Slovakia and Austria. Journal of Hydrology, 2011, 405, 392-401.	2.3	33
97	A regional snow-line method for estimating snow cover from MODIS during cloud cover. Journal of Hydrology, 2010, 381, 203-212.	2.3	137
98	Seasonal characteristics of flood regimes across the Alpineâ€“Carpathian range. Journal of Hydrology, 2010, 394, 78-89.	2.3	181
99	Evaluation of snow cover and depth simulated by a land surface model using detailed regional snow observations from Austria. Journal of Geophysical Research, 2010, 115, .	3.3	19
100	Comparative analysis of the seasonality of hydrological characteristics in Slovakia and Austria / Analyse comparative de la saisonnalitÃ© de caractÃ©ristiques hydrologiques en Slovaquie et en Autriche. Hydrological Sciences Journal, 2009, 54, 456-473.	1.2	68
101	Comparison of mapping approaches of design annual maximum daily precipitation. Atmospheric Research, 2009, 92, 289-307.	1.8	56
102	Scale effects in conceptual hydrological modeling. Water Resources Research, 2009, 45, .	1.7	124
103	Mapping of Gumbel Extreme Value Distribution Parameters for Estimation of Design Precipitation Totals at Ungauged Sites. , 2009, , 129-136.		6
104	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
105	The value of MODIS snow cover data in validating and calibrating conceptual hydrologic models. Journal of Hydrology, 2008, 358, 240-258.	2.3	213
106	Spatioâ€temporal combination of MODIS images â€“ potential for snow cover mapping. Water Resources Research, 2008, 44, .	1.7	254
107	Regional calibration of catchment models: Potential for ungauged catchments. Water Resources Research, 2007, 43, .	1.7	118
108	Uncertainty and multiple objective calibration in regional water balance modelling: case study in 320 Austrian catchments. Hydrological Processes, 2007, 21, 435-446.	1.1	157

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109	Spatio-temporal variability of event runoff coefficients. Journal of Hydrology, 2006, 331, 591-604.	2.3	212
110	Validation of MODIS snow cover images over Austria. Hydrology and Earth System Sciences, 2006, 10, 679-689.	1.9	199
111	Assimilating scatterometer soil moisture data into conceptual hydrologic models at the regional scale. Hydrology and Earth System Sciences, 2006, 10, 353-368.	1.9	142
112	A comparison of regionalisation methods for catchment model parameters. Hydrology and Earth System Sciences, 2005, 9, 157-171.	1.9	309
113	Multivariate Interpolation of Precipitation Using Regularized Spline with Tension. Transactions in GIS, 2002, 6, 135-150.	1.0	107
114	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
115	Human signatures derived from nighttime lights along the Eastern Alpine river network in Austria and Italy. Proceedings of the International Association of Hydrological Sciences, 0, 373, 131-136.	1.0	1
116	Joint editorial: Invigorating hydrological research through journal publications. Proceedings of the International Association of Hydrological Sciences, 0, 380, 3-8.	1.0	0