

Jan Szolgay

List of Publications by Year in descending order

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74
papers

4,931
citations

304602

22
h-index

149623

56
g-index

79
all docs

79
docs citations

79
times ranked

5153
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying barriers for nature-based solutions in flood risk management: An interdisciplinary overview using expert community approach. <i>Journal of Environmental Management</i> , 2022, 310, 114725.	3.8	41
2	A Hydrological Modeling Approach for Assessing the Impacts of Climate Change on Runoff Regimes in Slovakia. <i>Water (Switzerland)</i> , 2021, 13, 3358.	1.2	3
3	Incorporating Advanced Scatterometer Surface and Root Zone Soil Moisture Products into the Calibration of a Conceptual Semi-Distributed Hydrological Model. <i>Water (Switzerland)</i> , 2021, 13, 3366.	1.2	1
4	Approaches to state flood recovery funding in Visegrad Group Countries. <i>Environmental Hazards</i> , 2020, 19, 251-267.	1.4	12
5	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
6	Multi-model climatic water balance prediction in the Zala River Basin (Hungary) based on a modified Budyko framework. <i>Journal of Hydrology and Hydromechanics</i> , 2020, 68, 200-210.	0.7	11
7	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
8	Changing climate both increases and decreases European river floods. <i>Nature</i> , 2019, 573, 108-111.	13.7	639
9	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	1.2	474
10	Impacts of Future Climate Change on Runoff in Selected Catchments of Slovakia. <i>Climate Change Management</i> , 2019, , 279-292.	0.6	4
11	Estimating the effectiveness of crop management on reducing flood risk and sediment transport on hilly agricultural land – A Myjava case study, Slovakia. <i>Catena</i> , 2019, 172, 678-690.	2.2	27
12	Future impacts of land use and climate change on extreme runoff values in selected catchments of Slovakia. <i>Meteorology Hydrology and Water Management</i> , 2019, 7, .	0.4	11
13	Detection of future changes in trends and scaling exponents in extreme short-term rainfall at selected stations in Slovakia. <i>Contributions To Geophysics and Geodesy</i> , 2018, 48, 207-230.	0.2	6
14	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
15	CONSIDERING HETEROSCEDASTICITY IN THE MODELLING AND FORECASTING OF TIME SERIES OF MEAN DAILY DISCHARGES OF THE HRON RIVER AT STATION BREHY IN SLOVAKIA. , 2018, , .		0
16	IMPACT OF CLIMATE CHANGE ON THE HYDROPOWER POTENTIAL IN THE SELECTED RIVER BASINS IN SLOVAKIA. , 2018, , .		0
17	Variable Parameter Multilinear Muskingum Method: Case Study on the Danube River. <i>Slovak Journal of Civil Engineering</i> , 2018, 26, 56-65.	0.2	0
18	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

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19	Changing climate shifts timing of European floods. <i>Science</i> , 2017, 357, 588-590.	6.0	584
20	Hybrid Forecasting of Daily River Discharges Considering Autoregressive Heteroscedasticity. <i>Slovak Journal of Civil Engineering</i> , 2017, 25, 39-48.	0.2	6
21	The potential for land use change to reduce flood risk in mid-sized catchments in the Myjava region of Slovakia. <i>Contributions To Geophysics and Geodesy</i> , 2017, 47, 95-112.	0.2	5
22	Estimating effectiveness of crop management for reduction of soil erosion and runoff. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 92, 012017.	0.2	0
23	Combined deterministic & stochastic forecasting of monthly river flows for water management. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 92, 012052.	0.2	0
24	Detection of future changes in seasonality in extreme short-term rainfall in selected stations of Slovakia. <i>Contributions To Geophysics and Geodesy</i> , 2017, 47, 133-148.	0.2	5
25	THE IMPACT OF LAND USE CHANGES ON FLOOD REGIME: A CASE STUDY OF THE MYJAVA CATCHMENT. , 2017, , .		0
26	ASSESSMENT OF THE UNCERTAINTIES OF THE VALUES OF A HYDROLOGIC MODEL PARAMETERS TAKING INTO ACCOUNT TWO CALIBRATION APPROACHES. , 2017, , .		0
27	HYBRID MODEL FOR ONE STEP AHEAD FORECASTING OF DAILY RIVER FLOWS. , 2017, , .		0
28	IMPACTS OF CHANGES IN FOREST COMPOSITION AND CLIMATE CHANGE ON THE RUNOFF PROCESSES IN THE VAH RIVER BASIN IN SLOVAKIA. , 2017, , .		0
29	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
30	Modelling the Climate Change Impact On Monthly Runoff in Central Slovakia. <i>Procedia Engineering</i> , 2016, 161, 2127-2132.	1.2	4
31	Joint modelling of flood peaks and volumes: A copula application for the Danube River. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 382-392.	0.7	17
32	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
33	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
34	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
35	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
36	Storm type effects on super Clausius&Clapeyron scaling of intense rainstorm properties with air temperature. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1753-1766.	1.9	147

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37	Advantages Of A Time Series Analysis Using Wavelet Transform As Compared With A Fourier Analysis. Slovak Journal of Civil Engineering, 2015, 23, 30-36.	0.2	18
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	Probabilistic properties of a curve number: A case study for small Polish and Slovak Carpathian Basins. Journal of Mountain Science, 2015, 12, 533-548.	0.8	21
40	Estimation of the impact of climate change-induced extreme precipitation events on floods. Contributions To Geophysics and Geodesy, 2015, 45, 173-192.	0.2	18
41	Understanding flood regime changes in Europe: a state-of-the-art assessment. Hydrology and Earth System Sciences, 2014, 18, 2735-2772.	1.9	423
42	Selection of intense rainfall events based on intensity thresholds and lightning data in Switzerland. Hydrology and Earth System Sciences, 2014, 18, 1561-1573.	1.9	44
43	Documentary evidence of past floods in Europe and their utility in flood frequency estimation. Journal of Hydrology, 2014, 517, 963-973.	2.3	116
44	Wavelet based deseasonalization for modelling and forecasting of daily discharge series considering long range dependence. Journal of Hydrology and Hydromechanics, 2014, 62, 24-32.	0.7	16
45	Alternative Approaches to a Calibration of Rainfall- Runoff Models for a Flood Frequency Analysis. Acta Silvatica Et Lignaria Hungarica, 2014, 10, 161-174.	0.2	0
46	Application of Artificial Neural Networks for estimating index floods. Contributions To Geophysics and Geodesy, 2012, 42, 295-311.	0.2	6
47	Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology. Water Resources Research, 2012, 48, .	1.7	156
48	Regional flood frequency analysis in Slovakia. , 2012, , .		4
49	Assessment of The Uncertainties of a Conceptual Hydrologic Model By Using Artificially Generated Flows. Slovak Journal of Civil Engineering, 2012, 20, 35-43.	0.2	7
50	Methodology for post-event analysis of flash floods - SvacenickÃ½ Creek case study. Contributions To Geophysics and Geodesy, 2011, 41, 235-250.	0.2	5
51	Analysis of Nitrate Concentrations Using Nonlinear Time Series Models. Journal of Hydrology and Hydromechanics, 2011, 59, .	0.7	5
52	Assessing of IDF curves for hydrological design by simple scaling of 1-day precipitation totals. Slovak Journal of Civil Engineering, 2010, 18, 1-6.	0.2	2
53	Inclusion of historical information in flood frequency analysis using a Bayesian MCMC technique: a case study for the power dam OrÃ½k, Czech Republic. Contributions To Geophysics and Geodesy, 2010, 40, .	0.2	21
54	Bayesian MCMC approach to regional flood frequency analyses involving extraordinary flood events at ungauged sites. Journal of Hydrology, 2010, 394, 101-117.	2.3	129

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55	Seasonal characteristics of flood regimes across the Alpine-Carpathian range. Journal of Hydrology, 2010, 394, 78-89.	2.3	181
56	On the use of the Muskingum method for the simulation of flood wave movements. Slovak Journal of Civil Engineering, 2010, 18, 14-20.	0.2	15
57	On the use of the simple scaling of heavy rainfall in a regional estimation of IDF curves in Slovakia. Journal of Hydrology and Hydromechanics, 2010, 58, .	0.7	12
58	A compilation of data on European flash floods. Journal of Hydrology, 2009, 367, 70-78.	2.3	623
59	The limitations of assessing impacts of land use changes on runoff with a distributed hydrological model: case study of the Hron River. Biologia (Poland), 2009, 64, 589-593.	0.8	7
60	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
61	Comparison of mapping approaches of design annual maximum daily precipitation. Atmospheric Research, 2009, 92, 289-307.	1.8	56
62	Hybrid Approach to Delineation of Homogeneous Regions for Regional Precipitation Frequency Analysis. Journal of Hydrology and Hydromechanics, 2009, 57, 226-249.	0.7	19
63	Mapping of Gumbel Extreme Value Distribution Parameters for Estimation of Design Precipitation Totals at Ungauged Sites. , 2009, , 129-136.		6
64	Hydrological scenarios of future seasonal runoff distribution in Central Slovakia. IOP Conference Series: Earth and Environmental Science, 2008, 4, 012022.	0.2	3
65	Region-of-influence approach to a frequency analysis of heavy precipitation in Slovakia. Hydrology and Earth System Sciences, 2008, 12, 825-839.	1.9	64
66	At what scales do climate variability and land cover change impact on flooding and low flows?. Hydrological Processes, 2007, 21, 1241-1247.	1.1	313
67	Comparison of forecasting performance of nonlinear models of hydrological time series. Physics and Chemistry of the Earth, 2006, 31, 1127-1145.	1.2	46
68	SCENARIOS OF FLOOD REGIME CHANGES DUE TO LAND USE CHANGE IN THE HRON RIVER BASIN. , 2006, , 99-110.		1
69	ROUTING OF NUMERICAL WEATHER PREDICTIONS THROUGH A RAINFALL-RUNOFF MODEL. , 2006, , 79-90.		4
70	An empirical method for estimating future flood risks for flood warnings. Hydrology and Earth System Sciences, 2005, 9, 431-448.	1.9	23
71	Regional Estimation of Design Flood Discharges for River Restoration in Mountainous Basis of Northern Slovakia. , 2000, , 41-47.		3
72	A process-based analysis of the suitability of copula types for peak-volume flood relationships. Proceedings of the International Association of Hydrological Sciences, 0, 370, 183-188.	1.0	13

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73	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
74	A regional look at the selection of a process-oriented model for flood peak/volume relationships. Proceedings of the International Association of Hydrological Sciences, 0, 373, 61-67.	1.0	2