

# Silvia Kohnova

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

2,909  
citations

623734

14  
h-index

206112

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

3649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changing climate both increases and decreases European river floods. <i>Nature</i> , 2019, 573, 108-111.	27.8	639
2	A compilation of data on European flash floods. <i>Journal of Hydrology</i> , 2009, 367, 70-78.	5.4	623
3	Changing climate shifts timing of European floods. <i>Science</i> , 2017, 357, 588-590.	12.6	584
4	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
5	Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology. <i>Water Resources Research</i> , 2012, 48, .	4.2	156
6	Trends in flow intermittence for European rivers. <i>Hydrological Sciences Journal</i> , 2021, 66, 37-49.	2.6	41
7	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.	7.8	41
8	Assessing Impacts of Soil Management Measures on Ecosystem Services. <i>Sustainability</i> , 2018, 10, 4416.	3.2	28
9	A regional comparative analysis of empirical and theoretical flood peak-volume relationships. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 367-381.	2.0	26
10	Retention and Curve Number Variability in a Small Agricultural Catchment: The Probabilistic Approach. <i>Water (Switzerland)</i> , 2014, 6, 1118-1133.	2.7	23
11	Probabilistic properties of a curve number: A case study for small Polish and Slovak Carpathian Basins. <i>Journal of Mountain Science</i> , 2015, 12, 533-548.	2.0	21
12	Estimation of the impact of climate change-induced extreme precipitation events on floods. <i>Contributions To Geophysics and Geodesy</i> , 2015, 45, 173-192.	0.6	18
13	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.	2.0	17
14	Variability of seasonal floods in the Upper Danube River basin. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 357-366.	2.0	16
15	Post-event analysis and flash flood hydrology in Slovakia. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 304-315.	2.0	15
16	Helping stakeholders select and apply appraisal tools to mitigate soil threats: Researchers'™ experiences from across Europe. <i>Journal of Environmental Management</i> , 2020, 257, 110005.	7.8	14
17	Estimating the Effect of Deforestation on Runoff in Small Mountainous Basins in Slovakia. <i>Water (Switzerland)</i> , 2020, 12, 3113.	2.7	13
18	Approaches to state flood recovery funding in Visegrad Group Countries. <i>Environmental Hazards</i> , 2020, 19, 251-267.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Validation of the EROSION-3D Model through Measured Bathymetric Sediments. <i>Water</i> (Switzerland), 2020, 12, 1082.	2.7	12
20	Methods for Improvement of the Ecosystem Services of Soil by Sustainable Land Management in the Myjava River Basin. <i>Slovak Journal of Civil Engineering</i> , 2017, 25, 29-36.	0.5	11
21	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
22	Water balance comparison of two small experimental basins with different vegetation cover. <i>Biologia</i> (Poland), 2009, 64, 487-491.	1.5	10
23	The limitations of assessing impacts of land use changes on runoff with a distributed hydrological model: case study of the Hron River. <i>Biologia</i> (Poland), 2009, 64, 589-593.	1.5	7
24	Probabilistic properties of the date of maximum river flow, an approach based on circular statistics in lowland, highland and mountainous catchment. <i>Acta Geophysica</i> , 2018, 66, 755-768.	2.0	7
25	Pooling of low flow regimes using cluster and principal component analysis. <i>Slovak Journal of Civil Engineering</i> , 2012, 20, 19-27.	0.5	6
26	Application of Artificial Neural Networks for estimating index floods. <i>Contributions To Geophysics and Geodesy</i> , 2012, 42, 295-311.	0.6	6
27	Analysis of future changes in the trends and scaling coefficients for short-term rainfall in southwestern Slovakia. <i>Pollack Periodica</i> , 2018, 13, 163-174.	0.4	6
28	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.	0.6	6
29	Methodology for post-event analysis of flash floods - SvacenicĀ½ Creek case study. <i>Contributions To Geophysics and Geodesy</i> , 2011, 41, 235-250.	0.6	5
30	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.	0.6	5
31	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.	0.6	5
32	Design of measures for soil erosion control and assessment of their effect on the reduction of peak flows. <i>Pollack Periodica</i> , 2018, 13, 209-219.	0.4	5
33	Comparison of two concepts for assessment of sediment transport in small agricultural catchments. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 404-415.	2.0	5
34	Modelling the Climate Change Impact On Monthly Runoff in Central Slovakia. <i>Procedia Engineering</i> , 2016, 161, 2127-2132.	1.2	4
35	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.	0.6	4
36	Impacts of Future Climate Change on Runoff in Selected Catchments of Slovakia. <i>Climate Change Management</i> , 2019, , 279-292.	0.8	4

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37	Thematic Issue on Floods in the Danube basin – processes, patterns, predictions. Journal of Hydrology and Hydromechanics, 2016, 64, 301-303.	2.0	4
38	The L-moment based regional approach to curve numbers for Slovak and Polish Carpathian catchments. Journal of Hydrology and Hydromechanics, 2020, 68, 170-179.	2.0	4
39	Application of the Frier Distributed Model for Estimating the Impact of Land use Changes on the Water Balance in Selected Basins in Slovakia. Journal of Hydrology and Hydromechanics, 2009, 57, 213-225.	2.0	4
40	Irrigation Water Use in the Danube Basin: Facts, Governance and Approach to Sustainability. Journal of Environmental Geography, 2019, 12, 1-12.	0.5	3
41	A Hydrological Modeling Approach for Assessing the Impacts of Climate Change on Runoff Regimes in Slovakia. Water (Switzerland), 2021, 13, 3358.	2.7	3
42	An assessment of soil water erosion in the Myjava hill land: The application of a physically-based erosion model. Pollack Periodica, 2018, 13, 197-208.	0.4	2
43	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.	0.6	2
44	Impact of Changes in Short-Term Rainfall on Design Floods: Case Study of the Hnilec River Basin, Slovakia. Slovak Journal of Civil Engineering, 2022, 30, 68-74.	0.5	2
45	Detecting Similarity in Flood Seasonality of Slovak and Austrian Catchments. IOP Conference Series: Materials Science and Engineering, 2019, 471, 022027.	0.6	1
46	Comparison of two approaches for an estimation of the mean annual flood at ungauged sites in Slovakia. Pollack Periodica, 2020, 15, 130-141.	0.4	1
47	Sensitivity analysis of soil parameters and their impact on runoff-erosion processes. Pollack Periodica, 2020, 15, 53-64.	0.4	1
48	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.	2.7	1
49	COMPARISON OF TESTS FOR TREND IN LOCATION AND SCALEPARAMETERS IN HYDROLOGICAL AND PRECIPITATION TIME SERIES. Acta Scientiarum Polonorum Formatio Circumiectus, 2021, 19, 43-53.	0.6	1
50	Current state of small water reservoir from technical and ecological viewpoint. Pollack Periodica, 2021, 16, 58-63.	0.4	0
51	Future changes in short-term rainfall intensities in Záhorská Ľúča Lowlands, Slovakia. Pollack Periodica, 2019, 14, 141-152.	0.4	0
52	Predicted Changes in Short-Term Rainfall Intensities and Runoff at the Ipolitca River Basin. Pollack Periodica, 2020, 15, 172-183.	0.4	0
53	Comparison of the variances of a lumped and semi-distributed model parameters. Acta Hydrologica Slovaca, 2020, 21, 172-177.	0.6	0