

# Pavel Pech

## List of Publications by Year in Descending Order

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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.

20  
papers

213  
citations

9  
h-index

14  
g-index

21  
ext. papers

258  
ext. citations

2.9  
avg, IF

3.27  
L-index

#	Paper	IF	Citations
20	Well Rehabilitation via the Ultrasonic Method and Evaluation of Its Effectiveness from the Pumping Test. <i>Coatings</i> , <b>2021</b> , 11, 1250	2.9	0
19	Software for Evaluating Pumping Tests on Real Wells. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3182	2.6	1
18	A New Method for the Evaluation of Well Rehabilitation from the Early Portion of a Pumping Test. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 744	3	2
17	Evaluation of a pumping test with skin effect and wellbore storage on a confined aquifer in the Bela Crkva, Serbia. <i>International Journal of Water</i> , <b>2019</b> , 13, 1	0.9	5
16	Regionalization of runoff models derived by genetic programming. <i>Journal of Hydrology</i> , <b>2017</b> , 547, 544-656		19
15	Forecasting SPEI and SPI Drought Indices Using the Integrated Artificial Neural Networks. <i>Computational Intelligence and Neuroscience</i> , <b>2016</b> , 2016, 3868519	3	30
14	The rainfall erosivity factor in the Czech Republic and its uncertainty. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 4307-4322	5.5	12
13	Assessment of evaluation methods using infiltration data measured in heterogeneous mountain soils. <i>Geoderma</i> , <b>2016</b> , 276, 74-83	6.7	14
12	Solving the nonlinear and nonstationary Richards equation with two-level adaptive domain decomposition (dd-adaptivity). <i>Applied Mathematics and Computation</i> , <b>2015</b> , 267, 207-222	2.7	5
11	Spatial correlation structure of monthly rainfall at a mesoscale region of north-eastern Bohemia. <i>Theoretical and Applied Climatology</i> , <b>2015</b> , 121, 359-375	3	3
10	The Inertia Weight Updating Strategies in Particle Swarm Optimisation Based on the Beta Distribution. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-9	1.1	4
9	Parameter Estimation in Rainfall-Runoff Modelling Using Distributed Versions of Particle Swarm Optimization Algorithm. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-13	1.1	9
8	A comparison of three measuring methods for estimating the saturated hydraulic conductivity in the shallow subsurface layer of mountain podzols. <i>Geoderma</i> , <b>2014</b> , 219-220, 82-88	6.7	29
7	A Comparison of Selected Modifications of the Particle Swarm Optimization Algorithm. <i>Journal of Applied Mathematics</i> , <b>2014</b> , 2014, 1-10	1.1	12
6	Comparing the Selected Transfer Functions and Local Optimization Methods for Neural Network Flood Runoff Forecast. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-10	1.1	10
5	Solving the nonlinear Richards equation model with adaptive domain decomposition. <i>Journal of Computational and Applied Mathematics</i> , <b>2014</b> , 270, 2-11	2.4	8
4	Incorporating basic hydrological concepts into genetic programming for rainfall-runoff forecasting. <i>Computing (Vienna/New York)</i> , <b>2013</b> , 95, 363-380	2.2	18

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| 3 | Domain decomposition adaptivity for the Richards equation model. <i>Computing (Vienna/New York)</i> , <b>2013</b> , 95, 501-519   | 2.2 | 4  |
| 2 | Evaluation of Simple Statistical Downscaling Methods for Monthly Regional Climate Model Simulations with Respect to the Estimated Changes in Runoff in the Czech Republic. <i>Water Resources Management</i> , <b>2013</b> , 27, 5261 | 3.7 | 19 |
| 1 | Dual permeability variably saturated flow and contaminant transport modeling of a nuclear waste repository with capillary barrier protection. <i>Applied Mathematics and Computation</i> , <b>2013</b> , 219, 7127-7138               | 2.7 | 9  |