

# Michal Dohnal

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

864  
citations

516710

16  
h-index

501196

28  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trees never rest: the multiple facets of hydraulic redistribution. <i>Ecohydrology</i> , 2010, 3, 431-444.	2.4	121
2	Improving Hydraulic Conductivity Estimates from Minidisk Infiltrometer Measurements for Soils with Wide Pore Size Distributions. <i>Soil Science Society of America Journal</i> , 2010, 74, 804-811.	2.2	65
3	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	9.9	65
4	Using Oxygen-18 to Study the Role of Preferential Flow in the Formation of Hillslope Runoff. <i>Vadose Zone Journal</i> , 2010, 9, 252-259.	2.2	56
5	Physical and Numerical Coupling in Dual-Continuum Modeling of Preferential Flow. <i>Vadose Zone Journal</i> , 2010, 9, 260-267.	2.2	37
6	Combining dual-continuum approach with diffusion wave model to include a preferential flow component in hillslope scale modeling of shallow subsurface runoff. <i>Advances in Water Resources</i> , 2012, 44, 113-125.	3.8	36
7	Gauge-adjusted rainfall estimates from commercial microwave links. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 617-634.	4.9	35
8	Rainfall interception and spatial variability of throughfall in spruce stand. <i>Journal of Hydrology and Hydromechanics</i> , 2014, 62, 277-284.	2.0	31
9	Atmospheric observations with E-band microwave links – challenges and opportunities. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6559-6578.	3.1	28
10	Macroscopic Modeling of Plant Water Uptake in a Forest Stand Involving Root-Mediated Soil Water Redistribution. <i>Vadose Zone Journal</i> , 2013, 12, 1-12.	2.2	26
11	Transport of bromide and pesticides through an undisturbed soil column: A modeling study with global optimization analysis. <i>Journal of Contaminant Hydrology</i> , 2015, 175-176, 1-16.	3.3	24
12	Uncertainty Analysis of a Dual-Continuum Model Used to Simulate Subsurface Hillslope Runoff Involving Oxygen-18 as Natural Tracer. <i>Journal of Hydrology and Hydromechanics</i> , 2012, 60, 194-205.	2.0	24
13	Modeling heat fluxes in macroporous soil under sparse young forest of temperate humid climate. <i>Journal of Hydrology</i> , 2011, 402, 367-376.	5.4	23
14	Simulated cadmium transport in macroporous soil during heavy rainstorm using dual-permeability approach. <i>Biologia (Poland)</i> , 2006, 61, S251-S254.	1.5	22
15	Dynamics of dissolved organic carbon in hillslope discharge: Modeling and challenges. <i>Journal of Hydrology</i> , 2017, 546, 309-325.	5.4	19
16	Ponded infiltration into soil with biopores – field experiment and modeling. <i>Biologia (Poland)</i> , 2009, 64, 580-584.	1.5	17
17	Interpretation of ponded infiltration data using numerical experiments. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 289-299.	2.0	17
18	A green roof segment for monitoring the hydrological and thermal behaviour of anthropogenic soil systems. <i>Soil and Water Research</i> , 2015, 10, 262-270.	1.7	16

#	ARTICLE	IF	CITATIONS
19	Estimates of Tillage and Rainfall Effects on Unsaturated Hydraulic Conductivity in a Small Central European Agricultural Catchment. <i>Water (Switzerland)</i> , 2019, 11, 740.	2.7	15
20	Hydrological and thermal regime of a thin green roof system evaluated by physically-based model. <i>Urban Forestry and Urban Greening</i> , 2020, 48, 126582.	5.3	15
21	Thermal and water regime studied in a thin soil layer of green roof systems at early stage of pedogenesis. <i>Journal of Soils and Sediments</i> , 2016, 16, 2568-2579.	3.0	14
22	Modelling multiseasonal preferential transport of dissolved organic carbon in a shallow forest soil: Equilibrium versus kinetic sorption. <i>Hydrological Processes</i> , 2019, 33, 2898-2917.	2.6	14
23	Treeâ€”Dimensional Numerical Analysis of Water Flow Affected by Entrapped Air: Application of Noninvasive Imaging Techniques. <i>Vadose Zone Journal</i> , 2013, 12, 1-12.	2.2	12
24	Hillslope Runoff Generation - Comparing Different Modeling Approaches. <i>Journal of Hydrology and Hydromechanics</i> , 2012, 60, .	2.0	11
25	The use of simple hydrological models to assess outflow of two green roofs systems. <i>Soil and Water Research</i> , 2019, 14, 94-103.	1.7	11
26	Moisture regime of historical sandstone masonryâ€”AA numerical study. <i>Journal of Cultural Heritage</i> , 2020, 42, 99-107.	3.3	11
27	Field leaching of pesticides at five test sites in Hawaii: modeling flow and transport. <i>Pest Management Science</i> , 2011, 67, 1571-1582.	3.4	10
28	New automatic minidisk infiltrometer: design and testing. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 110-116.	2.0	10
29	Mesosopic aspects of root water uptake modeling â€” Hydraulic resistances and root geometry interpretations in plant transpiration analysis. <i>Advances in Water Resources</i> , 2016, 88, 86-96.	3.8	10
30	Episodic runoff generation at Central European headwater catchments studied using water isotope concentration signals. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 114-122.	2.0	10
31	A Simple Representation of Plant Water Storage Effects in Coupled Soil Water Flow and Transpiration Stream Modeling. <i>Vadose Zone Journal</i> , 2017, 16, 1-10.	2.2	9
32	Simulation of soil water dynamics in structured heavy soils with respect to root water uptake. <i>Biologia (Poland)</i> , 2006, 61, S320-S323.	1.5	7
33	Determination of hydraulic properties of a tropical soil of Hawaii using column experiments and inverse modeling. <i>Revista Brasileira De Ciencia Do Solo</i> , 2011, 35, 1229-1239.	1.3	7
34	Root Function: In Situ Studies Through Sap Flow Research. , 2012, , 267-290.		7
35	Ponded infiltration in a grid of permanent single-ring infiltrometers: Spatial versus temporal variability. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 244-253.	2.0	7
36	Retrieving Water Vapor From an Eâ€”Band Microwave Link With an Empirical Model Not Requiring In Situ Calibration. <i>Earth and Space Science</i> , 2021, 8, .	2.6	7

#	ARTICLE	IF	CITATIONS
37	Soil water freezing model with non-iterative energy balance accounting. Journal of Hydrology, 2019, 578, 124071.	5.4	3
38	Inter-annual variability of catchment water balance in a montane spruce forest. Hydrological Sciences Journal, 2022, 67, 1546-1560.	2.6	1
39	Correspondence between theory and practice of a Beerkan infiltration experiment. Vadose Zone Journal, 2022, 21, .	2.2	1
40	Use of autonomous transmission line-type electromagnetic sensors for classification of dry and wet periods at sub-hourly time intervals. Environmental Monitoring and Assessment, 2018, 190, 684.	2.7	0