

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
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51
all docs

51
docs citations

51
times ranked

1192
citing authors

#	ARTICLE	IF	CITATIONS
1	Inter-annual variability of catchment water balance in a montane spruce forest. <i>Hydrological Sciences Journal</i> , 2022, 67, 1546-1560.	2.6	1
2	Correspondence between theory and practice of a Beerkan infiltration experiment. <i>Vadose Zone Journal</i> , 2022, 21, .	2.2	1
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	Retrieving Water Vapor From an E-band Microwave Link With an Empirical Model Not Requiring In Situ Calibration. <i>Earth and Space Science</i> , 2021, 8, .	2.6	7
5	Moisture regime of historical sandstone masonry – numerical study. <i>Journal of Cultural Heritage</i> , 2020, 42, 99-107.	3.3	11
6	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
7	Atmospheric observations with E-band microwave links – challenges and opportunities. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6559-6578.	3.1	28
8	Soil water freezing model with non-iterative energy balance accounting. <i>Journal of Hydrology</i> , 2019, 578, 124071.	5.4	3
9	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
10	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
11	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
12	Use of autonomous transmission line-type electromagnetic sensors for classification of dry and wet periods at sub-hourly time intervals. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 684.	2.7	0
13	Dynamics of dissolved organic carbon in hillslope discharge: Modeling and challenges. <i>Journal of Hydrology</i> , 2017, 546, 309-325.	5.4	19
14	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
15	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
16	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
17	Gauge-adjusted rainfall estimates from commercial microwave links. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 617-634.	4.9	35
18	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

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19	Interpretation of ponded infiltration data using numerical experiments. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 289-299.	2.0	17
20	Mesosopic aspects of root water uptake modeling – Hydraulic resistances and root geometry interpretations in plant transpiration analysis. <i>Advances in Water Resources</i> , 2016, 88, 86-96.	3.8	10
21	New automatic minidisk infiltrometer: design and testing. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 110-116.	2.0	10
22	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
23	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
24	Rainfall interception and spatial variability of throughfall in spruce stand. <i>Journal of Hydrology and Hydromechanics</i> , 2014, 62, 277-284.	2.0	31
25	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
26	Macroscopic Modeling of Plant Water Uptake in a Forest Stand Involving Rootâ€Mediated Soil Water Redistribution. <i>Vadose Zone Journal</i> , 2013, 12, 1-12.	2.2	26
27	Hillslope Runoff Generation - Comparing Different Modeling Approaches. <i>Journal of Hydrology and Hydromechanics</i> , 2012, 60, .	2.0	11
28	Root Function: In Situ Studies Through Sap Flow Research. , 2012, , 267-290.		7
29	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
30	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
31	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
32	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
33	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
34	Physical and Numerical Coupling in Dualâ€Continuum Modeling of Preferential Flow. <i>Vadose Zone Journal</i> , 2010, 9, 260-267.	2.2	37
35	Improving Hydraulic Conductivity Estimates from Minidisk Infiltrimeter Measurements for Soils with Wide Poreâ€Size Distributions. <i>Soil Science Society of America Journal</i> , 2010, 74, 804-811.	2.2	65
36	Trees never rest: the multiple facets of hydraulic redistribution. <i>Ecohydrology</i> , 2010, 3, 431-444.	2.4	121

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37	Using Oxygen ¹⁸ to Study the Role of Preferential Flow in the Formation of Hillslope Runoff. Vadose Zone Journal, 2010, 9, 252-259.	2.2	56
38	Ponded infiltration into soil with biopores – field experiment and modeling. Biologia (Poland), 2009, 64, 580-584.	1.5	17
39	Simulated cadmium transport in macroporous soil during heavy rainstorm using dual-permeability approach. Biologia (Poland), 2006, 61, S251-S254.	1.5	22
40	Simulation of soil water dynamics in structured heavy soils with respect to root water uptake. Biologia (Poland), 2006, 61, S320-S323.	1.5	7