Jaromir Dusek

List of Publications by Year
in descending order

44	990	394421 19	454955 30
papers	citations	h-index	g-index

55	55	55	1186
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatial particle size distribution at intact sample surfaces of a Dystric Cambisol under forest use. Journal of Hydrology and Hydromechanics, 2022, 70, 30-41.	2.0	1
2	Moisture regime of historical sandstone masonryÂâ€”ÂA numerical study. Journal of Cultural Heritage, 2020, 42, 99-107.	3.3	11
3	Hydrological and thermal regime of a thin green roof system evaluated by physically-based model. Urban Forestry and Urban Greening, 2020, 48, 126582.	5.3	15
4	Anisotropy of unsaturated hydraulic properties of compacted mineral capping systems seven years after construction. Soil and Tillage Research, 2020, 204, 104702.	5.6	6
5	Laser-based 3D microscopic gauging of soil aggregate coating thickness and volume. Soil and Tillage Research, 2020, 204, 104715.	5.6	5
6	Brilliant Blue sorption characteristics of clay-organic aggregate coatings from Bt horizons. Soil and Tillage Research, 2020, 201, 104635.	5.6	4
7	Soil water freezing model with non-iterative energy balance accounting. Journal of Hydrology, 2019, 578, 124071.	5.4	3
8	Modelling multiseasonal preferential transport of dissolved organic carbon in a shallow forest soil: Equilibrium versus kinetic sorption. Hydrological Processes, 2019, 33, 2898-2917.	2.6	14
9	Modeling Travel Time Distributions of Preferential Subsurface Runoff, Deep Percolation and Transpiration at A Montane Forest Hillslope Site. Water (Switzerland), 2019, 11, 2396.	2.7	7
10	Assessing the Feasibility of Soil Infiltration Trenches for Highway Runoff Control on the Island of Oahu, Hawaii. Water (Switzerland), 2018, 10, 1832.	2.7	9
11	Hillslope hydrograph separation: The effects of variable isotopic signatures and hydrodynamic mixing in macroporous soil. Journal of Hydrology, 2018, 563, 446-459.	5.4	21
12	Dynamics of dissolved organic carbon in hillslope discharge: Modeling and challenges. Journal of Hydrology, 2017, 546, 309-325.	5.4	19
13	Acid rain footprint three decades after peak deposition: Long-term recovery from pollutant sulphate in the Uhlirska catchment (Czech Republic). Science of the Total Environment, 2017, 598, 1037-1049.	8.0	21
14	A review of CO₂ and associated carbon dynamics in headwater streams: A global perspective. Reviews of Geophysics, 2017, 55, 560-585.	23.0	198
15	A Simple Representation of Plant Water Storage Effects in Coupled Soil Water Flow and Transpiration Stream Modeling. Vadose Zone Journal, 2017, 16, 1-10.	2.2	9
16	Interpretation of ponded infiltration data using numerical experiments. Journal of Hydrology and Hydromechanics, 2016, 64, 289-299.	2.0	17
17	Mesoscopic aspects of root water uptake modeling â€“ Hydraulic resistances and root geometry interpretations in plant transpiration analysis. Advances in Water Resources, 2016, 88, 86-96.	3.8	10
18	Hillslope-storage and rainfall-amount thresholds as controls of preferential stormflow. Journal of Hydrology, 2016, 534, 590-605.	5.4	25

#	Article	IF	Citations
19	Transport of bromide and pesticides through an undisturbed soil column: A modeling study with global optimization analysis. Journal of Contaminant Hydrology, 2015, 175-176, 1-16.	3.3	24
20	Modeling Subsurface Hillslope Runoff Dominated by Preferential Flow: Oneâ€•vs. Twoâ€Dimensional Approximation. Vadose Zone Journal, 2014, 13, 1-13.	2.2	19
21	Heterogeneity of water flow in grassland soil during irrigation experiment. Biologia (Poland), 2014, 69, 1555-1561.	1.5	3
22	Transport of iodide in structured soil under spring barley during irrigation experiment analyzed using dual-continuum model. Biologia (Poland), 2013, 68, 1094-1098.	1.5	5
23	Comparison of two methods to assess heterogeneity of water flow in soils. Journal of Hydrology and Hydromechanics, 2013, 61, 299-304.	2.0	11
24	Treeâ€Dimensional Numerical Analysis of Water Flow Affected by Entrapped Air: Application of Noninvasive Imaging Techniques. Vadose Zone Journal, 2013, 12, 1-12.	2.2	12
25	Macroscopic Modeling of Plant Water Uptake in a Forest Stand Involving Rootâ€Mediated Soil Water Redistribution. Vadose Zone Journal, 2013, 12, 1-12.	2.2	26
26	Solute Mass Transfer Effects in Twoâ€Dimensional Dualâ€Permeability Modeling of Bromide Leaching From a Tileâ€Drained Field. Vadose Zone Journal, 2013, 12, 1-21.	2.2	26
27	Combining dual-continuum approach with diffusion wave model to include a preferential flow component in hillslope scale modeling of shallow subsurface runoff. Advances in Water Resources, 2012, 44, 113-125.	3.8	36
28	Hillslope hydrograph analysis using synthetic and natural oxygen-18 signatures. Journal of Hydrology, 2012, 475, 415-427.	5.4	27
29	Field leaching of pesticides at five test sites in Hawaii: modeling flow and transport. Pest Management Science, 2011, 67, 1571-1582.	3.4	10
30	Shortâ€term transport of cadmium during a heavyâ€rain event simulated by a dualâ€continuum approach. Journal of Plant Nutrition and Soil Science, 2010, 173, 536-547.	1.9	11
31	Physical and Numerical Coupling in Dualâ€Continuum Modeling of Preferential Flow. Vadose Zone Journal, 2010, 9, 260-267.	2.2	37
32	Improving Hydraulic Conductivity Estimates from Minidisk Infiltrometer Measurements for Soils with Wide Poreâ€Size Distributions. Soil Science Society of America Journal, 2010, 74, 804-811.	2.2	65
33	Field leaching of pesticides at five test sites in Hawaii: study description and results. Pest Management Science, 2010, 66, 596-611.	3.4	19
34	Using Oxygenâ€18 to Study the Role of Preferential Flow in the Formation of Hillslope Runoff. Vadose Zone Journal, 2010, 9, 252-259.	2.2	56
35	Effect of plastic mulch on water flow and herbicide transport in soil cultivated with pineapple crop: A modeling study. Agricultural Water Management, 2010, 97, 1637-1645.	5.6	17
36	Ponded infiltration into soil with biopores â€" field experiment and modeling. Biologia (Poland), 2009, 64, 580-584.	1.5	17

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37	Surface Boundary Conditions in Twoâ€Dimensional Dualâ€Permeability Modeling of Tile Drain Bromide Leaching. Vadose Zone Journal, 2008, 7, 1287-1301.	2.2	26
38	Evaluation of Dual-Permeability Models for Chemical Leaching Assessment to Assist Pesticide Regulation in Hawaii. Vadose Zone Journal, 2007, 6, 735-745.	2.2	14
39	Twoâ€Dimensional Dualâ€Permeability Analyses of a Bromide Tracer Experiment on a Tileâ€Drained Field. Vadose Zone Journal, 2007, 6, 651-667.	2.2	36
40	Dual-continuum analysis of a cadmium tracer field experiment. Journal of Contaminant Hydrology, 2007, 92, 50-65.	3.3	20
41	Simulated cadmium transport in macroporous soil during heavy rainstorm using dual-permeability approach. Biologia (Poland), 2006, 61, S251-S254.	1.5	22
42	Field Experiments in Transport of Pesticides in Tropical Soils in Hawaii. , 2005, , 1.		0
43	Evaluating the Transport of Pesticides in Tropical Soils in Hawaii. , 2004, , 1.		1
44	Modeling depth-variant and domain-specific sorption and biodegradation in dual-permeability media. Journal of Contaminant Hydrology, 2004, 70, 63-87.	3.3	54