

Jaromir Dusek

List of Publications by Year in descending order

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44
papers

990
citations

394421

19
h-index

454955

30
g-index

55
all docs

55
docs citations

55
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of CO ₂ and associated carbon dynamics in headwater streams: A global perspective. <i>Reviews of Geophysics</i> , 2017, 55, 560-585.	23.0	198
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	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
4	Modeling depth-variant and domain-specific sorption and biodegradation in dual-permeability media. <i>Journal of Contaminant Hydrology</i> , 2004, 70, 63-87.	3.3	54
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	Two-Dimensional Dual-Permeability Analyses of a Bromide Tracer Experiment on a Tile-Drained Field. <i>Vadose Zone Journal</i> , 2007, 6, 651-667.	2.2	36
7	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
8	Hillslope hydrograph analysis using synthetic and natural oxygen-18 signatures. <i>Journal of Hydrology</i> , 2012, 475, 415-427.	5.4	27
9	Surface Boundary Conditions in Two-Dimensional Dual-Permeability Modeling of Tile Drain Bromide Leaching. <i>Vadose Zone Journal</i> , 2008, 7, 1287-1301.	2.2	26
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	Solute Mass Transfer Effects in Two-Dimensional Dual-Permeability Modeling of Bromide Leaching From a Tile-Drained Field. <i>Vadose Zone Journal</i> , 2013, 12, 1-21.	2.2	26
12	Hillslope-storage and rainfall-amount thresholds as controls of preferential stormflow. <i>Journal of Hydrology</i> , 2016, 534, 590-605.	5.4	25
13	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
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	Acid rain footprint three decades after peak deposition: Long-term recovery from pollutant sulphate in the Uhlirska catchment (Czech Republic). <i>Science of the Total Environment</i> , 2017, 598, 1037-1049.	8.0	21
16	Hillslope hydrograph separation: The effects of variable isotopic signatures and hydrodynamic mixing in macroporous soil. <i>Journal of Hydrology</i> , 2018, 563, 446-459.	5.4	21
17	Dual-continuum analysis of a cadmium tracer field experiment. <i>Journal of Contaminant Hydrology</i> , 2007, 92, 50-65.	3.3	20
18	Field leaching of pesticides at five test sites in Hawaii: study description and results. <i>Pest Management Science</i> , 2010, 66, 596-611.	3.4	19

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19	Modeling Subsurface Hillslope Runoff Dominated by Preferential Flow: One-vs. Two-Dimensional Approximation. <i>Vadose Zone Journal</i> , 2014, 13, 1-13.	2.2	19
20	Dynamics of dissolved organic carbon in hillslope discharge: Modeling and challenges. <i>Journal of Hydrology</i> , 2017, 546, 309-325.	5.4	19
21	Ponded infiltration into soil with biopores – field experiment and modeling. <i>Biologia (Poland)</i> , 2009, 64, 580-584.	1.5	17
22	Effect of plastic mulch on water flow and herbicide transport in soil cultivated with pineapple crop: A modeling study. <i>Agricultural Water Management</i> , 2010, 97, 1637-1645.	5.6	17
23	Interpretation of ponded infiltration data using numerical experiments. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 289-299.	2.0	17
24	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
25	Evaluation of Dual-Permeability Models for Chemical Leaching Assessment to Assist Pesticide Regulation in Hawaii. <i>Vadose Zone Journal</i> , 2007, 6, 735-745.	2.2	14
26	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
27	Tree-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
28	Short-term transport of cadmium during a heavy-rain event simulated by a dual-continuum approach. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 536-547.	1.9	11
29	Comparison of two methods to assess heterogeneity of water flow in soils. <i>Journal of Hydrology and Hydromechanics</i> , 2013, 61, 299-304.	2.0	11
30	Moisture regime of historical sandstone masonry – numerical study. <i>Journal of Cultural Heritage</i> , 2020, 42, 99-107.	3.3	11
31	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
32	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
33	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
34	Assessing the Feasibility of Soil Infiltration Trenches for Highway Runoff Control on the Island of Oahu, Hawaii. <i>Water (Switzerland)</i> , 2018, 10, 1832.	2.7	9
35	Modeling Travel Time Distributions of Preferential Subsurface Runoff, Deep Percolation and Transpiration at A Montane Forest Hillslope Site. <i>Water (Switzerland)</i> , 2019, 11, 2396.	2.7	7
36	Anisotropy of unsaturated hydraulic properties of compacted mineral capping systems seven years after construction. <i>Soil and Tillage Research</i> , 2020, 204, 104702.	5.6	6

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37	Transport of iodide in structured soil under spring barley during irrigation experiment analyzed using dual-continuum model. <i>Biologia (Poland)</i> , 2013, 68, 1094-1098.	1.5	5
38	Laser-based 3D microscopic gauging of soil aggregate coating thickness and volume. <i>Soil and Tillage Research</i> , 2020, 204, 104715.	5.6	5
39	Brilliant Blue sorption characteristics of clay-organic aggregate coatings from Bt horizons. <i>Soil and Tillage Research</i> , 2020, 201, 104635.	5.6	4
40	Heterogeneity of water flow in grassland soil during irrigation experiment. <i>Biologia (Poland)</i> , 2014, 69, 1555-1561.	1.5	3
41	Soil water freezing model with non-iterative energy balance accounting. <i>Journal of Hydrology</i> , 2019, 578, 124071.	5.4	3
42	Evaluating the Transport of Pesticides in Tropical Soils in Hawaii. , 2004, , 1.		1
43	Spatial particle size distribution at intact sample surfaces of a Dystric Cambisol under forest use. <i>Journal of Hydrology and Hydromechanics</i> , 2022, 70, 30-41.	2.0	1
44	Field Experiments in Transport of Pesticides in Tropical Soils in Hawaii. , 2005, , 1.		0