Vladimir Cvetkovic

List of Publications by Year
in descending order

69 papers	2,208 citations	236925 25 h-index	233421 45 g-index
70 all docs	70 docs citations	70 times ranked	1314 citing authors

#	Article	IF	Citations
1	Impact of shear displacement on advective transport in a laboratory-scale fracture. Geomechanics for Energy and the Environment, 2022, 31, 100278.	2.5	3
2	On the interplay between hillslope and drainage network flow dynamics in the catchment travel time distribution. Hydrological Processes, 2022, 36, .	2.6	3
3	Socioecological informed comparative modeling to promote sustainable urban policy transitions: Case study in Chicago and Stockholm. Journal of Cleaner Production, 2021, 281, 125050.	9.3	17
4	Analytical solution for two-phase flow of silica sol grouting in homogeneous fractures. IOP Conference Series: Earth and Environmental Science, 2021, 710, 012062.	0.3	0
5	Evaluation of Flowâ€Log Data From Crystalline Rocks With Steadyâ€State Pumping and Ambient Flow. Geophysical Research Letters, 2021, 48, e2021GL092741.	4.0	11
6	A Comparison of Six Transport Models of the MADEâ€1 Experiment Implemented With Different Types of Hydraulic Data. Water Resources Research, 2021, 57, e2020WR028672.	4.2	3
7	Urban Ecosystem Vulnerability Assessment of Support Climate-Resilient City Development. Urban Planning, 2021, 6, 227-239.	1.3	7
8	On the Relationship Between Normal Stiffness and Permeability of Rock Fractures. Geophysical Research Letters, 2021, 48, .	4.0	13
9	Yield-power-law fluid propagation in water-saturated fracture networks with application to rock grouting. Tunnelling and Underground Space Technology, 2020, 95, 103170.	6.2	26
10	A High-Resolution Contact Analysis of Rough-Walled Crystalline Rock Fractures Subject to Normal Stress. Rock Mechanics and Rock Engineering, 2020, 53, 2141-2155.	5.4	31
11	Influence of surface roughness on fluid flow and solute transport through 3D crossed rock fractures. Journal of Hydrology, 2020, 582, 124284.	5.4	37
12	Impact of normal stress-induced closure on laboratory-scale solute transport in a natural rock fracture. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 732-741.	8.1	28
13	Inference of Transmissivity in Crystalline Rock Using Flow Logs Under Steadyâ€State Pumping: Impact of Multiscale Heterogeneity. Water Resources Research, 2020, 56, e2020WR027254.	4.2	16
14	Analysis of Bingham fluid radial flow in smooth fractures. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 1112-1118.	8.1	21
15	Simulation of nutrient management and hydroclimatic effects on coastal water quality and ecological statusâ€"The Baltic HimmerfjÃrden Bay case. Ocean and Coastal Management, 2020, 198, 105360.	4.4	5
16	Upscaling of radionuclide transport and retention in crystalline rocks exhibiting micro-scale heterogeneity of the rock matrix. Advances in Water Resources, 2020, 142, 103644.	3.8	8
17	A Particleâ€Based Conditional Sampling Scheme for the Simulation of Transport in Fractured Rock With Diffusion Into Stagnant Water and Rock Matrix. Water Resources Research, 2020, 56, e2019WR026958.	4.2	12
18	Inference of Retention Time From Tracer Tests in Crystalline Rock. Water Resources Research, 2020, 56, e2019WR025266.	4.2	9

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19	Radial propagation of yield-power-law grouts into water-saturated homogeneous fractures. International Journal of Rock Mechanics and Minings Sciences, 2020, 130, 104308.	5.8	13
20	How Does ICT Expansion Drive â€œSmartâ€•Urban Growth? A Case Study of Nanjing, China. Urban Planning, 2020, 5, 129-139.	1.3	9
21	Groundwater Contaminant Transport: Prediction Under Uncertainty, With Application to the MADE Transport Experiment. Frontiers in Environmental Science, 2019, 7, .	3.3	9
22	Scenarios of Nutrient-Related Solute Loading and Transport Fate from Different Land Catchments and Coasts into the Baltic Sea. Water (Switzerland), 2019, 11, 1407.	2.7	3
23	Cement grout propagation in two-dimensional fracture networks: Impact of structure and hydraulic variability. International Journal of Rock Mechanics and Minings Sciences, 2019, 115, 1-10.	5.8	38
24	A scalable dynamic characterisation approach for water quality management in semi-enclosed seas and archipelagos. Marine Pollution Bulletin, 2019, 139, 311-327.	5.0	9
25	Dominant Hydro-Climatic Drivers of Water Temperature, Salinity, and Flow Variability for the Large-Scale System of the Baltic Coastal Wetlands. Water (Switzerland), 2019, 11, 552.	2.7	7
26	Bathymetry Development and Flow Analyses Using Two-Dimensional Numerical Modeling Approach for Lake Victoria. Fluids, 2019, 4, 182.	1.7	6
27	A Critical Analysis of Transverse Dispersivity Field Data. Ground Water, 2019, 57, 632-639.	1.3	27
28	Two-phase cement grout propagation in homogeneous water-saturated rock fractures. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 243-249.	5.8	59
29	Data-driven analysis of nutrient inputs and transfers through nested catchments. Science of the Total Environment, 2018, 610-611, 482-494.	8.0	13
30	Modeling of Solute Transport in a 3D Rough-Walled Fractureâ€“Matrix System. Transport in Porous Media, 2017, 116, 1005-1029.	2.6	56
31	Modeling of flow and mixing in 3D rough-walled rock fracture intersections. Advances in Water Resources, 2017, 107, 1-9.	3.8	59
32	Introduction to special section on Modeling highly heterogeneous aquifers: Lessons learned in the last 30 years from the <scp>MADE</scp> experiments and others. Water Resources Research, 2017, 53, 2581-2584.	4.2	15
33	Statistical Formulation of Generalized Tracer Retention in Fractured Rock. Water Resources Research, 2017, 53, 8736-8759.	4.2	8
34	Shear-enhanced nonlinear flow in rough-walled rock fractures. International Journal of Rock Mechanics and Minings Sciences, 2017, 97, 33-45.	5.8	121
35	Multi-Layered Stratification in the Baltic Sea: Insight from a Modeling Study with Reference to Environmental Conditions. Journal of Marine Science and Engineering, 2017, 5, 2.	2.6	17
36	Accessibility of Water-Related Cultural Ecosystem Services through Public Transportâ€”A Model for Planning Support in the Stockholm Region. Sustainability, 2017, 9, 346.	3.2	10

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37	Tracer travel and residence time distributions in highly heterogeneous aquifers: Coupled effect of flow variability and mass transfer. Journal of Hydrology, 2016, 543, 101-108.	5.4	17
38	Assumptions of the analytical solution for solute transport in a fractureâ€“matrix system. International Journal of Rock Mechanics and Minings Sciences, 2016, 83, 211-217.	5.8	15
39	Roughness decomposition and nonlinear fluid flow in a single rock fracture. International Journal of Rock Mechanics and Minings Sciences, 2015, 75, 102-118.	5.8	206
40	On the upscaling of chemical transport in fractured rock. Water Resources Research, 2014, 50, 5797-5816.	4.2	11
41	Solute transport in aquifers of arbitrary variability: A timeâ€domain random walk formulation. Water Resources Research, 2014, 50, 5759-5773.	4.2	43
42	Collapse of higherâ€order solute concentration moments in groundwater transport. Water Resources Research, 2013, 49, 4751-4764.	4.2	2
43	Impact of aquifer heterogeneity structure and local-scale dispersion on solute concentration uncertainty. Water Resources Research, 2013, 49, 3712-3728.	4.2	25
44	How accurate is predictive modeling of groundwater transport? A case study of advection, macrodispersion, and diffusive mass transfer at the Forsmark site (Sweden). Water Resources Research, 2013, 49, 5317-5327.	4.2	6
45	On the distribution of water age along hydrological pathways with transient flow. Water Resources Research, 2013, 49, 5238-5245.	4.2	14
46	Flowâ€dependence of matrix diffusion in highly heterogeneous rock fractures. Water Resources Research, 2013, 49, 7587-7597.	4.2	6
47	Solute transport and retention in threeâ€dimensional fracture networks. Water Resources Research, 2012, 48, .	4.2	44
48	Water and solute transport along hydrological pathways. Water Resources Research, 2012, 48, .	4.2	46
49	A general memory function for modeling mass transfer in groundwater transport. Water Resources Research, 2012, 48, .	4.2	17
50	Tracer attenuation in groundwater. Water Resources Research, 2011, 47, .	4.2	10
51	The tempered one-sided stable density: a universal model for hydrological transport?. Environmental Research Letters, 2011, 6, 034008.	5.2	49
52	Significance of higher moments for complete characterization of the travel time probability density function in heterogeneous porous media using the maximum entropy principle. Water Resources Research, 2010, 46, .	4.2	20
53	Significance of injection modes and heterogeneity on spatial and temporal dispersion of advecting particles in two-dimensional discrete fracture networks. Advances in Water Resources, 2009, 32, 649-658.	3.8	31
54	Adaptive Fup multi-resolution approach to flow and advective transport in highly heterogeneous porous media: Methodology, accuracy and convergence. Advances in Water Resources, 2009, 32, 885-905.	3.8	21

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55	Flow and travel time statistics in highly heterogeneous porous media. Water Resources Research, 2009, 45, .	4.2	69
56	Time domain particle tracking methods for simulating transport with retention and firstâ€order transformation. Water Resources Research, 2008, 44, .	4.2	88
57	Ergodic transport through aquifers of nonâ€Gaussian log conductivity distribution and occurrence of anomalous behavior. Water Resources Research, 2007, 43, .	4.2	41
58	On the velocity covariance for steady flows in heterogeneous porous formations and its application to contaminants transport. Computational Geosciences, 2006, 9, 155-177.	2.4	12
59	Evaluation of analytical solute discharge moments using numerical modeling in absolute and relative dispersion frameworks. Water Resources Research, 2002, 38, 1-1-1-8.	4.2	7
60	Power-law velocity distributions in fracture networks: Numerical evidence and implications for tracer transport. Geophysical Research Letters, 2002, 29, 20-1-20-4.	4.0	56
61	Stochastic analysis of early tracer arrival in a segmented fracture pathway. Water Resources Research, 2001, 37, 1669-1680.	4.2	14
62	Computational issues in the determination of solute discharge moments and implications for comparison to analytical solutions. Advances in Water Resources, 2001, 24, 607-619.	3.8	20
63	Stochastic analysis of oxygen- and nitrate-based biodegradation of hydrocarbons in aquifers. Journal of Contaminant Hydrology, 2000, 41, 335-365.	3.3	32
64	Relative dispersion for solute flux in aquifers. Journal of Fluid Mechanics, 1998, 361, 145-174.	3.4	60
65	Transport of reactive solutes. , 1997, , 133-145.		10
66	Evaluation of Risk from Contaminants Migrating by Groundwater. Water Resources Research, 1996, 32, 611-621.	4.2	97
67	Pump-and-Treat Remediation of Heterogeneous Aquifers: Effects of Rate-Limited Mass Transfer. Ground Water, 1995, 33, 675-685.	1.3	35
68	Transport of kinetically sorbing solute by steady random velocity in heterogeneous porous formations. Journal of Fluid Mechanics, 1994, 265, 189-215.	3.4	238
69	Field scale mass arrival of sorptive solute into the groundwater. Water Resources Research, 1991, 27, 1315-1325.	4.2	117