

Matthias Willmann

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

608
citations

623734

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all docs

20
docs citations

20
times ranked

587
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharp Transition to Strongly Anomalous Transport in Unsaturated Porous Media. Geophysical Research Letters, 2022, 49, e2021GL096280.	4.0	6
2	Field Comparison of DNA-Labelled Nanoparticle and Solute Tracer Transport in a Fractured Crystalline Rock. Water Resources Research, 2019, 55, 6577-6595.	4.2	35
3	Stochastic dynamics of intermittent pore-scale particle motion in three-dimensional porous media: Experiments and theory. Geophysical Research Letters, 2017, 44, 9361-9371.	4.0	61
4	Conservative transport upscaling based on information of connectivity. Water Resources Research, 2016, 52, 6867-6880.	4.2	18
5	Connectivity metrics based on the path of smallest resistance. Advances in Water Resources, 2016, 88, 14-20.	3.8	26
6	Mechanisms of anomalous dispersion in flow through heterogeneous porous media. Physical Review Fluids, 2016, 1, .	2.5	31
7	Delineation of connectivity structures in 2D heterogeneous hydraulic conductivity fields. Water Resources Research, 2015, 51, 5846-5854.	4.2	21
8	Intermittent Lagrangian velocities and accelerations in three-dimensional porous medium flow. Physical Review E, 2015, 92, 013015.	2.1	72
9	A new stochastic particle-tracking approach for fractured sedimentary formations. Water Resources Research, 2013, 49, 352-359.	4.2	16
10	Transport Up-scaling in Highly Heterogeneous Media. , 2013, , .		0
11	Relationship Between Statistical Properties of Permeability Field and Behavior of Concentration in Stationary Fluid Flow. , 2012, , .		0
12	Coupling of mass transfer and reactive transport for nonlinear reactions in heterogeneous media. Water Resources Research, 2010, 46, .	4.2	69
13	A general real-time formulation for multi-rate mass transfer problems. Hydrology and Earth System Sciences, 2009, 13, 1399-1411.	4.9	60
14	Impact of log-transmissivity variogram structure on groundwater flow and transport predictions. Advances in Water Resources, 2009, 32, 1311-1322.	3.8	15
15	Transport upscaling in heterogeneous aquifers: What physical parameters control memory functions?. Water Resources Research, 2008, 44, .	4.2	129
16	On the meaning of the transmissivity values obtained from recovery tests. Hydrogeology Journal, 2007, 15, 833-842.	2.1	20
17	Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows. Journal of Contaminant Hydrology, 2006, 82, 23-43.	3.3	19
18	Impact of the choice of the variogram model on flow and travel time predictors in radial flows. , 2005, , 273-284.		1

#	ARTICLE	IF	CITATIONS
19	Effect of Heterogeneity on Aquifer Reclamation Time. Quantitative Geology and Geostatistics, 2004, , 259-270.	0.1	3