

Matthias Willmann

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

608
citations

623734

14
h-index

940533

16
g-index

20
all docs

20
docs citations

20
times ranked

587
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport upscaling in heterogeneous aquifers: What physical parameters control memory functions?. <i>Water Resources Research</i> , 2008, 44, .	4.2	129
2	Intermittent Lagrangian velocities and accelerations in three-dimensional porous medium flow. <i>Physical Review E</i> , 2015, 92, 013015.	2.1	72
3	Coupling of mass transfer and reactive transport for nonlinear reactions in heterogeneous media. <i>Water Resources Research</i> , 2010, 46, .	4.2	69
4	Stochastic dynamics of intermittent pore-scale particle motion in three-dimensional porous media: Experiments and theory. <i>Geophysical Research Letters</i> , 2017, 44, 9361-9371.	4.0	61
5	A general real-time formulation for multi-rate mass transfer problems. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1399-1411.	4.9	60
6	Field Comparison of DNA-Labeled Nanoparticle and Solute Tracer Transport in a Fractured Crystalline Rock. <i>Water Resources Research</i> , 2019, 55, 6577-6595.	4.2	35
7	Mechanisms of anomalous dispersion in flow through heterogeneous porous media. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	31
8	Connectivity metrics based on the path of smallest resistance. <i>Advances in Water Resources</i> , 2016, 88, 14-20.	3.8	26
9	Delineation of connectivity structures in heterogeneous hydraulic conductivity fields. <i>Water Resources Research</i> , 2015, 51, 5846-5854.	4.2	21
10	On the meaning of the transmissivity values obtained from recovery tests. <i>Hydrogeology Journal</i> , 2007, 15, 833-842.	2.1	20
11	Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows. <i>Journal of Contaminant Hydrology</i> , 2006, 82, 23-43.	3.3	19
12	Conservative transport upscaling based on information of connectivity. <i>Water Resources Research</i> , 2016, 52, 6867-6880.	4.2	18
13	A new stochastic particle-tracking approach for fractured sedimentary formations. <i>Water Resources Research</i> , 2013, 49, 352-359.	4.2	16
14	Impact of log-transmissivity variogram structure on groundwater flow and transport predictions. <i>Advances in Water Resources</i> , 2009, 32, 1311-1322.	3.8	15
15	Sharp Transition to Strongly Anomalous Transport in Unsaturated Porous Media. <i>Geophysical Research Letters</i> , 2022, 49, e2021GL096280.	4.0	6
16	Effect of Heterogeneity on Aquifer Reclamation Time. <i>Quantitative Geology and Geostatistics</i> , 2004, , 259-270.	0.1	3
17	Impact of the choice of the variogram model on flow and travel time predictors in radial flows. , 2005, , 273-284.		1
18	Relationship Between Statistical Properties of Permeability Field and Behavior of Concentration in Stationary Fluid Flow. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Transport Up-scaling in Highly Heterogeneous Media. , 2013, , .		0