

Insa Neuweiler

List of Publications by Year in descending order

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47
papers

860
citations

471509

17
h-index

501196

28
g-index

55
all docs

55
docs citations

55
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of nearest neighbour metrics for pluvial flood nowcasts in urban catchments. Journal of Hydrology, 2022, 604, 127225.	5.4	1
2	Numerical modeling of the mechanical response of bacterial biofilm to flow by using an SPH poroviscoelastic model. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000214.	0.2	0
3	Modeling of Symbiotic Bacterial Biofilm Growth with an Example of the Streptococcusâ€“Veillonella sp. System. Bulletin of Mathematical Biology, 2021, 83, 48.	1.9	5
4	Coupling saturated and unsaturated flow: comparing the iterative and the non-iterative approach. Hydrology and Earth System Sciences, 2021, 25, 4041-4059.	4.9	6
5	Presentation and discussion of the high-resolution atmosphereâ€“land-surfaceâ€“subsurface simulation dataset of the simulated Neckar catchment for the period 2007â€“2015. Earth System Science Data, 2021, 13, 4437-4464.	9.9	4
6	Modeling Overpotentials Related to Mass Transport Through Porous Transport Layers of PEM Water Electrolysis Cells. Journal of the Electrochemical Society, 2020, 167, 114511.	2.9	31
7	A time-space flux-corrected transport finite element formulation for solving multi-dimensional advection-diffusion-reaction equations. Journal of Computational Physics, 2019, 396, 31-53.	3.8	9
8	An ensemble neural network model for real-time prediction of urban floods. Journal of Hydrology, 2019, 575, 743-754.	5.4	128
9	Physically based modeling of stormwater pipe leakage in an urban catchment. Journal of Hydrology, 2019, 573, 778-793.	5.4	19
10	Modeling Immiscible Twoâ€“Phase Flow in Rough Fractures From Capillary to Viscous Fingering. Water Resources Research, 2019, 55, 2033-2056.	4.2	28
11	Generation of Stormwater Drainage Networks Using Spatial Data. Green Energy and Technology, 2019, , 576-581.	0.6	1
12	Modeling of contaminant transport during an urban pluvial flood event â€“ The importance of surface flow. Journal of Hydrology, 2019, 568, 301-310.	5.4	19
13	A new approach to determine the relative importance of DLVO and non-DLVO colloid retention mechanisms in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 330-335.	4.7	24
14	Forecasting Pollution Transport in Drainage Water. Green Energy and Technology, 2019, , 701-705.	0.6	0
15	A timeâ€“space FCTâ€“FE formulation for 1D time dependent advectionâ€“diffusion equation. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800244.	0.2	0
16	A Deeper Insight of a Multi-dimensional Continuum Biofilm Growth Model: Experimental Observation and Parameter Studies. Lecture Notes in Applied and Computational Mechanics, 2018, , 257-272.	2.2	1
17	Debatesâ€“Hypothesis testing in hydrology: A subsurface perspective. Water Resources Research, 2017, 53, 1784-1791.	4.2	9
18	Effects of flow interruption on transport and retention of iron oxide colloids in quartz sand. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 532-543.	4.7	27

#	ARTICLE	IF	CITATIONS
19	A coupled approach for the three-dimensional simulation of pipe leakage in variably saturated soil. <i>Journal of Hydrology</i> , 2017, 555, 569-585.	5.4	24
20	Biofilm formation by the oral pioneer colonizer <i>Streptococcus gordonii</i> : an experimental and numerical study. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	31
21	Joint Editorialâ€”Fostering Innovation and Improving Impact Assessment for Journal Publications in Hydrology. <i>Vadose Zone Journal</i> , 2016, 15, 1-4.	2.2	1
22	Joint editorial: Fostering innovation and improving impact assessment for journal publications in hydrology. <i>Water Resources Research</i> , 2016, 52, 2399-2402.	4.2	9
23	Fluid trapping during capillary displacement in fractures. <i>Advances in Water Resources</i> , 2016, 95, 264-275.	3.8	24
24	Multi-rate mass transfer modeling of two-phase flow in highly heterogeneous fractured and porous media. <i>Advances in Water Resources</i> , 2016, 91, 63-77.	3.8	22
25	Solute Transport in Heterogeneous Soil with Timeâ€”Dependent Boundary Conditions. <i>Vadose Zone Journal</i> , 2016, 15, 1-17.	2.2	18
26	Noise-driven interfaces and their macroscopic representation. <i>Physical Review E</i> , 2016, 94, 052802.	2.1	2
27	Experimental and Numerical Analysis of Air Trapping in a Porous Medium with Coarse Textured Inclusions. <i>Acta Geophysica</i> , 2016, 64, 2487-2509.	2.0	5
28	Joint Editorial: Fostering innovation and improving impact assessment for journal publications in hydrology. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1081-1084.	4.9	2
29	Influence of heterogeneous air entry pressure on large scale unsaturated flow in porous media. <i>Acta Geophysica</i> , 2014, 62, 1179-1191.	2.0	5
30	A non-local two-phase flow model for immiscible displacement in highly heterogeneous porous media and its parametrization. <i>Advances in Water Resources</i> , 2013, 62, 475-487.	3.8	23
31	A Non-Local Richards Equation to Model Unsaturated Flow in Highly Heterogeneous Media under Nonequilibrium Pressure Conditions. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0132.	2.2	13
32	Upscaling unsaturated flow in binary porous media with air entry pressure effects. <i>Water Resources Research</i> , 2012, 48, .	4.2	13
33	The impact of buoyancy on front spreading in heterogeneous porous media in twoâ€”phase immiscible flow. <i>Water Resources Research</i> , 2011, 47, .	4.2	9
34	Estimation of effective parameters for a two-phase flow problem in non-Gaussian heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2011, 120-121, 141-156.	3.3	17
35	Simulation of Solute Transport Through Fractured Rock: A Higher-Order Accurate Finite-Element Finite-Volume Method Permitting Large Time Steps. <i>Transport in Porous Media</i> , 2010, 83, 289-318.	2.6	51
36	Modeling gasâ€”water processes in fractures with fracture flow properties obtained through upscaling. <i>Water Resources Research</i> , 2010, 46, .	4.2	11

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37	Quantitative links between porous media structures and flow behavior across scales. <i>Advances in Water Resources</i> , 2008, 31, 1127-1128.	3.8	3
38	Probability density functions of hydraulic head and velocity in three-dimensional heterogeneous porous media. <i>Water Resources Research</i> , 2008, 44, .	4.2	44
39	Impact of sampling volume on the probability density function of steady state concentration. <i>Water Resources Research</i> , 2008, 44, .	4.2	49
40	Sequential Coupling of Models for Contaminant Spreading in the Vadose Zone. <i>Vadose Zone Journal</i> , 2008, 7, 721-731.	2.2	11
41	Upscaling for unsaturated flow for non-Gaussian heterogeneous porous media. <i>Water Resources Research</i> , 2007, 43, .	4.2	39
42	Effective Parameter Functions for the Richards Equation in Layered Porous Media. <i>Vadose Zone Journal</i> , 2006, 5, 963-977.	2.2	18
43	Upscaling of Two-Phase Flow Processes in Porous Media. , 2005, , 237-257.		17
44	Homogenization of Richards equation in permeability fields with different connectivities. <i>Water Resources Research</i> , 2005, 41, .	4.2	47
45	Experimental and theoretical investigations of drainage in horizontal rough-walled fractures with different correlation structures. <i>Advances in Water Resources</i> , 2004, 27, 1217-1231.	3.8	29
46	Infiltration of DNAPL into heterogeneous water-saturated soil with different connectivity properties. <i>Developments in Water Science</i> , 2004, 55, 313-324.	0.1	0
47	Joint editorial "Fostering innovation and improving impact assessment for journal publications in hydrology. <i>Hydrological Sciences Journal</i> , 0, , 1-4.	2.6	8