List of Publications by Year in descending order

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AMIR RAOOF

#	Article	IF	CITATIONS
1	Non-linear boundary conditions for the convection-diffusion equation in lattice Boltzmann framework. Chemical Engineering Science, 2022, 247, 116925.	1.9	2
2	Fluid flow and colloid transport experiment in single-porosity sample; tracking of colloid transport behavior in a saturated micromodel. Advances in Water Resources, 2022, 159, 104086.	1.7	7
3	Application of machine learning in colloids transport in porous media studies: Lattice Boltzmann simulation results as training data. Chemical Engineering Science, 2022, 253, 117548.	1.9	2
4	A quantitative study of salinity effect on water diffusion in n-alkane phases: From pore-scale experiments to molecular dynamic simulation. Fuel, 2022, 324, 124716.	3.4	3
5	Impacts of Receding of the Lakes Located in the Arid and Semi-arid Areas on the Coastal Groundwater: Integrated Modeling and Experimental Study. Water Resources Management, 2022, 36, 4057-4080.	1.9	1
6	The Complexity of Porous Media Flow Characterized in a Microfluidic Model Based on Confocal Laser Scanning Microscopy and Micro-PIV. Transport in Porous Media, 2021, 136, 343-367.	1.2	10
7	lonic strength and zeta potential effects on colloid transport and retention processes. Colloids and Interface Science Communications, 2021, 42, 100389.	2.0	22
8	Insight into particle detachment in clogging of porous media; a pore scale study using lattice Boltzmann method. Advances in Water Resources, 2021, 151, 103888.	1.7	14
9	Effect of soil textural characteristics on longitudinal dispersion in saturated porous media. Journal of Hydrology and Hydromechanics, 2021, 69, 161-170.	0.7	4
10	Topographic features of nano-pores within the osteochondral interface and their effects on transport properties –a 3D imaging and modeling study. Journal of Biomechanics, 2021, 123, 110504.	0.9	4
11	Unsaturated flow effects on solute transport in porous media. Journal of Hydrology, 2021, 598, 126301.	2.3	19
12	The contribution of hydrodynamic processes to calcite dissolution rates and rate spectra. Geochimica Et Cosmochimica Acta, 2021, 307, 338-350.	1.6	12
13	The impact of pore-throat shape evolution during dissolution on carbonate rock permeability: Pore network modeling and experiments. Advances in Water Resources, 2021, 155, 103991.	1.7	12
14	Application of the modified Q-slope classification system for sedimentary rock slope stability assessment in Iran. Engineering Geology, 2020, 264, 105349.	2.9	34
15	Evolution of pore-shape and its impact on pore conductivity during CO2 injection in calcite: Single pore simulations and microfluidic experiments. Advances in Water Resources, 2020, 136, 103480.	1.7	17
16	Petrophysical Correlations for the Permeability of Coquinas (Carbonate Rocks). Transport in Porous Media, 2020, 135, 287-308.	1.2	16
17	Direct pore scale numerical simulation of colloid transport and retention. Part I: Fluid flow velocity, colloid size, and pore structure effects. Advances in Water Resources, 2020, 144, 103694.	1.7	22
18	Large-scale pore network and continuum simulations of solute longitudinal dispersivity of a saturated sand column. Advances in Water Resources, 2020, 144, 103713.	1.7	12

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19	A review of transport of nanoparticles in porous media. , 2020, , 351-381.		11
20	Insight into particle retention and clogging in porous media; a pore scale study using lattice Boltzmann method. Advances in Water Resources, 2020, 138, 103530.	1.7	32
21	Impact of water salinity differential on a crude oil droplet constrained in a capillary: Pore-scale mechanisms. Fuel, 2020, 274, 117798.	3.4	17
22	An alternative approach to control saltwater intrusion in coastal aquifers using a freshwater surface recharge canal. Journal of Contaminant Hydrology, 2019, 222, 56-64.	1.6	23
23	Dynamic Pore-Network Models Development. Advances in Mechanics and Mathematics, 2019, , 337-356.	0.2	1
24	Computational and experimental pore-scale studies of a carbonate rock sample. Journal of Hydrology and Hydromechanics, 2019, 67, 372-383.	0.7	8
25	Direct simulations of two-phase flow experiments of different geometry complexities using Volume-of-Fluid (VOF) method. Chemical Engineering Science, 2019, 195, 820-827.	1.9	52
26	Meter-Scale Reactive Transport Modeling of CO ₂ -Rich Fluid Flow along Debonded Wellbore Casing-Cement Interfaces. Environmental Science & Technology, 2018, 52, 3786-3795.	4.6	23
27	Insight into Heterogeneity Effects in Methane Hydrate Dissociation via Pore-Scale Modeling. Transport in Porous Media, 2018, 124, 183-201.	1.2	16
28	Water Curtain System Pre-design for Crude Oil Storage URCs: A Numerical Modeling and Genetic Programming Approach. Geotechnical and Geological Engineering, 2018, 36, 813-826.	0.8	7
29	Morphometric dataset of the alluvial fans at the southern part of Nayband fault, Iran. Data in Brief, 2018, 21, 1756-1763.	0.5	6
30	Modeling water imbibition into coated and uncoated papers. Chemical Engineering Science, 2018, 189, 33-42.	1.9	8
31	Water Flux Reduction in Microfiltration Membranes: A Pore Network Study. Chemical Engineering and Technology, 2018, 41, 1566-1576.	0.9	8
32	Movement of a liquid droplet within a fibrous layer: Direct pore-scale modeling and experimental observations. Chemical Engineering Science, 2018, 191, 78-86.	1.9	15
33	Unsaturated hydraulic properties of heterogeneously packed sands: A pore-scale computational study. Journal of Hydrology, 2018, 565, 570-580.	2.3	8
34	Droplet Imbibition into Paper Coating Layer: Pore-Network Modeling Simulation. Transport in Porous Media, 2018, 125, 239-258.	1.2	10
35	Upscaling of nanoparticle transport in porous media under unfavorable conditions: Pore scale to Darcy scale. Journal of Contaminant Hydrology, 2017, 200, 1-14.	1.6	30
36	Insights into the role of wettability in cathode catalyst layer of proton exchange membrane fuel cell; pore scale immiscible flow and transport processes. Journal of Power Sources, 2017, 349, 57-67.	4.0	46

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37	Effects of Porosity and Water Saturation on the Effective Diffusivity of a Cathode Catalyst Layer. Journal of the Electrochemical Society, 2017, 164, F298-F305.	1.3	26
38	Multiscale modelling of dual-porosity porous media; a computational pore-scale study for flow and solute transport. Advances in Water Resources, 2017, 105, 82-95.	1.7	54
39	Detailed Modeling of Carbonate Acidizing by Coupling a Multi-Purpose Pore-Network Simulator to the Chemistry Package PHREEQC - Application to Chelating Agents. , 2017, , .		1
40	Characterizing the hydraulic properties of paper coating layer using FIB-SEM tomography and 3D pore-scale modeling. Chemical Engineering Science, 2017, 160, 275-280.	1.9	49
41	Dissolution kinetics of volatile organic compound vapors in water: An integrated experimental and computational study. Journal of Contaminant Hydrology, 2017, 196, 43-51.	1.6	4
42	The Effect of Grain Size Distribution on Nonlinear Flow Behavior in Sandy Porous Media. Transport in Porous Media, 2017, 120, 37-66.	1.2	34
43	Reactive transport of CO 2 -rich fluids in simulated wellbore interfaces: Flow-through experiments on the 1–6 m length scale. International Journal of Greenhouse Gas Control, 2016, 54, 96-116.	2.3	28
44	Modeling of Horizontal Water Redistribution in an Unsaturated Soil. Vadose Zone Journal, 2016, 15, 1-11.	1.3	8
45	Effects of Sand Compaction and Mixing on Pore Structure and the Unsaturated Soil Hydraulic Properties. Vadose Zone Journal, 2016, 15, 1-11.	1.3	38
46	Correlation equations for average deposition rate coefficients of nanoparticles in a cylindrical pore. Water Resources Research, 2015, 51, 8034-8059.	1.7	27
47	Pore-Scale Study of Flow Rate on Colloid Attachment and Remobilization in a Saturated Micromodel. Journal of Environmental Quality, 2015, 44, 1376-1383.	1.0	26
48	Salinization in a stratified aquifer induced by heat transfer from well casings. Advances in Water Resources, 2015, 86, 32-45.	1.7	15
49	Evaluation of a horizontal permeable reactive barrier for preventing upward diffusion of volatile organic compounds through the unsaturated zone. Journal of Environmental Management, 2015, 163, 204-213.	3.8	13
50	Solute dispersion under electric and pressure driven flows; pore scale processes. Journal of Hydrology, 2014, 517, 1107-1113.	2.3	15
51	Oxidation of trichloroethylene, toluene, and ethanol vapors by a partially saturated permeable reactive barrier. Journal of Contaminant Hydrology, 2014, 164, 193-208.	1.6	18
52	Virus-sized colloid transport in a single pore: Model development and sensitivity analysis. Journal of Contaminant Hydrology, 2014, 164, 163-180.	1.6	15
53	The Use of Numerical Flow and Transport Models in Environmental Analyses. , 2014, , 349-376.		3
54	Reactive dispersive contaminant transport in coastal aquifers: Numerical simulation of a reactive Henry problem. Journal of Contaminant Hydrology, 2013, 145, 90-104.	1.6	46

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55	Oxidation of volatile organic vapours in air by solid potassium permanganate. Chemosphere, 2013, 91, 1534-1538.	4.2	18
56	Retention and remobilization of colloids during steady-state and transient two-phase flow. Water Resources Research, 2013, 49, 8005-8016.	1.7	22
57	Saturationâ€dependent solute dispersivity in porous media: Poreâ€scale processes. Water Resources Research, 2013, 49, 1943-1951.	1.7	71
58	PoreFlow: A complex pore-network model for simulation of reactive transport in variably saturated porous media. Computers and Geosciences, 2013, 61, 160-174.	2.0	113
59	Effect of Mean Network Coordination Number on Dispersivity Characteristics. Transport in Porous Media, 2012, 95, 447-463.	1.2	28
60	A new formulation for poreâ€network modeling of twoâ€phase flow. Water Resources Research, 2012, 48,	1.7	73
61	Pore-scale modeling of reactive transport in wellbore cement under CO2 storage conditions. International Journal of Greenhouse Gas Control, 2012, 11, S67-S77.	2.3	93
62	Modeling Virus Transport and Remobilization during Transient Partially Saturated Flow. Vadose Zone Journal, 2012, 11, vzj2011.0090.	1.3	19
63	Upscaling Transport of Adsorbing Solutes in Porous Media: Poreâ€Network Modeling. Vadose Zone Journal, 2010, 9, 624-636.	1.3	65
64	A New Method for Generating Pore-Network Models of Porous Media. Transport in Porous Media, 2010, 81, 391-407.	1.2	126
65	UPSCALING TRANSPORTOF ADSORBING SOLUTES IN POROUS MEDIA. Journal of Porous Media, 2010, 13, 395-408.	1.0	27