

Ali Q Raeini

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,264
citations

304368

22
h-index

454577

30
g-index

31
all docs

31
docs citations

31
times ranked

1672
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling two-phase flow in porous media at the pore scale using the volume-of-fluid method. <i>Journal of Computational Physics</i> , 2012, 231, 5653-5668.	1.9	393
2	Direct simulations of two-phase flow on micro-CT images of porous media and upscaling of pore-scale forces. <i>Advances in Water Resources</i> , 2014, 74, 116-126.	1.7	254
3	Generalized network modeling: Network extraction as a coarse-scale discretization of the void space of porous media. <i>Physical Review E</i> , 2017, 96, 013312.	0.8	213
4	Predictions of non-Fickian solute transport in different classes of porous media using direct simulation on pore-scale images. <i>Physical Review E</i> , 2013, 87, 013011.	0.8	199
5	Automatic measurement of contact angle in pore-space images. <i>Advances in Water Resources</i> , 2017, 109, 158-169.	1.7	153
6	The impact of porous media heterogeneity on non-Darcy flow behaviour from pore-scale simulation. <i>Advances in Water Resources</i> , 2016, 95, 329-340.	1.7	137
7	Modelling capillary trapping using finite-volume simulation of two-phase flow directly on micro-CT images. <i>Advances in Water Resources</i> , 2015, 83, 102-110.	1.7	97
8	Numerical Modelling of Sub-pore Scale Events in Two-Phase Flow Through Porous Media. <i>Transport in Porous Media</i> , 2014, 101, 191-213.	1.2	87
9	A numerical model of two-phase flow at the micro-scale using the volume-of-fluid method. <i>Journal of Computational Physics</i> , 2018, 357, 159-182.	1.9	77
10	Validation of model predictions of pore-scale fluid distributions during two-phase flow. <i>Physical Review E</i> , 2018, 97, 053104.	0.8	72
11	Pore occupancy, relative permeability and flow intermittency measurements using X-ray micro-tomography in a complex carbonate. <i>Advances in Water Resources</i> , 2019, 129, 56-69.	1.7	58
12	Generalized network modeling of capillary-dominated two-phase flow. <i>Physical Review E</i> , 2018, 97, 023308.	0.8	57
13	An improved pore-network model including viscous coupling effects using direct simulation by the lattice Boltzmann method. <i>Advances in Water Resources</i> , 2017, 100, 26-34.	1.7	53
14	Reliability of Algorithms Interpreting Topological and Geometric Properties of Porous Media for Pore Network Modelling. <i>Transport in Porous Media</i> , 2019, 128, 271-301.	1.2	53
15	A Sensitivity Study of the Effect of Image Resolution on Predicted Petrophysical Properties. <i>Transport in Porous Media</i> , 2015, 110, 157-169.	1.2	40
16	Pore-scale imaging with measurement of relative permeability and capillary pressure on the same reservoir sandstone sample under water-wet and mixed-wet conditions. <i>Advances in Water Resources</i> , 2020, 146, 103786.	1.7	37
17	Validating the Generalized Pore Network Model Using Micro-CT Images of Two-Phase Flow. <i>Transport in Porous Media</i> , 2019, 130, 405-424.	1.2	36
18	The architectural design of smart ventilation and drainage systems in termite nests. <i>Science Advances</i> , 2019, 5, eaat8520.	4.7	35

#	ARTICLE	IF	CITATIONS
19	Pore-scale mechanisms of CO2 storage in oilfields. <i>Scientific Reports</i> , 2020, 10, 8534.	1.6	31
20	Pore-by-pore modeling, analysis, and prediction of two-phase flow in mixed-wet rocks. <i>Physical Review E</i> , 2020, 102, 023302.	0.8	27
21	Verifying Pore Network Models of Imbibition in Rocks Using Time-Resolved Synchrotron Imaging. <i>Water Resources Research</i> , 2020, 56, e2019WR026587.	1.7	27
22	Pore-scale imaging and analysis of low salinity waterflooding in a heterogeneous carbonate rock at reservoir conditions. <i>Scientific Reports</i> , 2021, 11, 15063.	1.6	25
23	A study to investigate viscous coupling effects on the hydraulic conductance of fluid layers in two-phase flow at the pore level. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 299-310.	5.0	22
24	New type of pore-snap-off and displacement correlations in imbibition. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 384-392.	5.0	18
25	A spatially resolved fluid-solid interaction model for dense granular packs/soft-sand. <i>Advances in Water Resources</i> , 2020, 136, 103454.	1.7	14
26	Dynamic fluid configurations in steady-state two-phase flow in Bentheimer sandstone. <i>Physical Review E</i> , 2021, 103, 013110.	0.8	13
27	Pore-scale simulation of nanoparticle transport and deposition in a microchannel using a Lagrangian approach. <i>Journal of Molecular Liquids</i> , 2022, 355, 118948.	2.3	11
28	Pore-scale imaging of asphaltene deposition with permeability reduction and wettability alteration. <i>Fuel</i> , 2022, 316, 123202.	3.4	9
29	Drainage Capillary Pressure Distribution and Fluid Displacement in a Heterogeneous Laminated Sandstone. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093604.	1.5	7
30	Generalized network modelling of two-phase flow in a water-wet and mixed-wet reservoir sandstone: Uncertainty and validation with experimental data. <i>Advances in Water Resources</i> , 2022, 164, 104194.	1.7	6
31	Influence of Micro-Computed Tomography Image Resolution on Petrophysical Properties. , 2013, , .		3