S Majid Hassanizadeh

List of Publications by Year
in descending order

159 papers	8,100 citations	49 h-index (41258)	85 g-index (53109)
161 all docs	161 docs citations	161 times ranked	4933 citing authors

#	Article	IF	Citations
1	Thermodynamic basis of capillary pressure in porous media. Water Resources Research, 1993, 29, 3389-3405.	1.7	582
2	Removal of Viruses by Soil Passage: Overview of Modeling, Processes, and Parameters. Critical Reviews in Environmental Science and Technology, 2000, 30, 49-127.	6.6	466
3	Dynamic Effect in the Capillary Pressureâ€"Saturation Relationship and its Impacts on Unsaturated Flow. Vadose Zone Journal, 2002, 1, 38-57.	1.3	304
4	Analysis of Fundamentals of Two-Phase Flow in Porous Media Using Dynamic Pore-Network Models: A Review. Critical Reviews in Environmental Science and Technology, 2012, 42, 1895-1976.	6.6	285
5	High velocity flow in porous media. Transport in Porous Media, 1987, 2, 521.	1.2	248
6	Non-equilibrium effects in capillarity and interfacial area in two-phase flow: dynamic pore-network modelling. Journal of Fluid Mechanics, 2010, 655, 38-71.	1.4	226
7	Insights into the Relationships Among Capillary Pressure, Saturation, Interfacial Area and Relative Permeability Using Pore-Network Modeling. Transport in Porous Media, 2008, 74, 201-219.	1.2	210
8	Toward an improved description of the physics of two-phase flow. Advances in Water Resources, 1993, 16, 53-67.	1.7	209
9	Unsaturated Flow Theory Including Interfacial Phenomena. Water Resources Research, 1991, 27, 1855-1863.	1.7	184
10	Reservoir-on-a-Chip (ROC): A new paradigm in reservoir engineering. Lab on A Chip, 2011, 11, 3785.	3.1	170
11	A unifying framework for watershed thermodynamics: balance equations for mass, momentum, energy and entropy, and the second law of thermodynamics. Advances in Water Resources, 1998, 22, 367-398.	1.7	169
12	A Review of Micromodels and Their Use in Two-Phase Flow Studies. Vadose Zone Journal, 2012, 11, vzj2011.0072.	1.3	169
13	Derivation of basic equations of mass transport in porous media, Part 2. Generalized Darcy's and Fick's laws. Advances in Water Resources, 1986, 9, 207-222.	1.7	134
14	A New Method for Generating Pore-Network Models of Porous Media. Transport in Porous Media, 2010, 81, 391-407.	1.2	126
15	Conservation equations governing hillslope responses: Exploring the physical basis of water balance. Water Resources Research, 2000, 36, 1845-1863.	1.7	115
16	Paradoxes and Realities in Unsaturated Flow Theory. Water Resources Research, 1991, 27, 1847-1854.	1.7	114
17	Bundle-of-Tubes Model for Calculating Dynamic Effects in the Capillary-Pressure- Saturation Relationship. Transport in Porous Media, 2005, 58, 5-22.	1.2	113
18	Effect of fluids properties on non-equilibrium capillarity effects: Dynamic pore-network modeling. International Journal of Multiphase Flow, 2011, 37, 198-214.	1.6	106

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19	Network model investigation of interfacial area, capillary pressure and saturation relationships in granular porous media. Water Resources Research, 2010, 46, .	1.7	105
20	On the modeling of brine transport in porous media. Water Resources Research, 1988, 24, 321-330.	1.7	99
21	Title is missing!. Transport in Porous Media, 2001, 43, 487-510.	1.2	99
22	Two-site kinetic modeling of bacteriophages transport through columns of saturated dune sand. Journal of Contaminant Hydrology, 2002, 57, 259-279.	1.6	89
23	A non-linear theory of high-concentration-gradient dispersion in porous media. Advances in Water Resources, 1995, 18, 203-215.	1.7	86
24	Derivation of basic equations of mass transport in porous media, Part 1. Macroscopic balance laws. Advances in Water Resources, 1986, 9, 196-206.	1.7	80
25	Effective Stress in Unsaturated Soils: A Thermodynamic Approach Based on the Interfacial Energy and Hydromechanical Coupling. Transport in Porous Media, 2013, 96, 369-396.	1.2	78
26	Simulating drainage and imbibition experiments in a highâ€porosity micromodel using an unstructured pore network model. Water Resources Research, 2009, 45, .	1.7	77
27	A model for twoâ€phase flow in porous media including fluidâ€fluid interfacial area. Water Resources Research, 2008, 44, .	1.7	76
28	On the fabrication of PDMS micromodels by rapid prototyping, and their use in twoâ€phase flow studies. Water Resources Research, 2013, 49, 2056-2067.	1.7	76
29	The Effect of Mixed Wettability on Poreâ€Scale Flow Regimes Based on a Flooding Experiment in Ketton Limestone. Geophysical Research Letters, 2019, 46, 3225-3234.	1.5	76
30	Micromodel study of twoâ€phase flow under transient conditions: Quantifying effects of specific interfacial area. Water Resources Research, 2014, 50, 8125-8140.	1.7	74
31	Bacteriophages and clostridium spores as indicator organisms for removal of pathogens by passage through saturated dune sand. Water Research, 2003, 37, 2186-2194.	5.3	73
32	Virus Transport in Saturated and Unsaturated Sand Columns. Vadose Zone Journal, 2006, 5, 877-885.	1.3	73
33	A new formulation for poreâ€network modeling of twoâ€phase flow. Water Resources Research, 2012, 48, .	1.7	73
34	Saturationâ€dependent solute dispersivity in porous media: Poreâ€scale processes. Water Resources Research, 2013, 49, 1943-1951.	1.7	71
35	Modeling Concentration Distribution and Deformation During Convection-Enhanced Drug Delivery into Brain Tissue. Transport in Porous Media, 2012, 92, 119-143.	1.2	70
36	Effects of heterogeneities on capillary pressureâ€"saturationâ€"relative permeability relationships. Journal of Contaminant Hydrology, 2002, 56, 175-192.	1.6	69

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37	Role of air-water interfaces on retention of viruses under unsaturated conditions. Water Resources Research, 2006, 42, .	1.7	67
38	Upscaling Transport of Adsorbing Solutes in Porous Media: Poreâ€Network Modeling. Vadose Zone Journal, 2010, 9, 624-636.	1.3	65
39	An Overview of Biodegradation of LNAPLs in Coastal (Semi)-arid Environment. Water, Air, and Soil Pollution, 2011, 220, 225-239.	1.1	63
40	Nonequilibrium capillarity effects in twoâ€phase flow through porous media at different scales. Water Resources Research, 2011, 47, .	1.7	62
41	Comparison of Two-Phase Darcyâ€™s Law with a Thermodynamically Consistent Approach. Transport in Porous Media, 2011, 88, 133-148.	1.2	62
42	A novel deep reactive ion etched (DRIE) glass micro-model for two-phase flow experiments. Lab on A Chip, 2012, 12, 3413.	3.1	61
43	Macro-Scale Dynamic Effects in Homogeneous and Heterogeneous Porous Media. Transport in Porous Media, 2005, 58, 121-145.	1.2	60
44	Study of Multi-phase Flow in Porous Media: Comparison of SPH Simulations with Micro-model Experiments. Transport in Porous Media, 2016, 114, 581-600.	1.2	59
45	Uniqueness of Specific Interfacial Areaâ€“Capillary Pressureâ€“Saturation Relationship Under Non-Equilibrium Conditions in Two-Phase Porous Media Flow. Transport in Porous Media, 2012, 94, 465-486.	1.2	56
46	Specific interfacial area: The missing state variable in twoâ€phase flow equations?. Water Resources Research, 2011, 47, .	1.7	55
47	Two-phase flow modeling for the cathode side of a polymer electrolyte fuel cell. Journal of Power Sources, 2012, 197, 136-144.	4.0	54
48	Occurrence and fate of methane leakage from cut and buried abandoned gas wells in the Netherlands. Science of the Total Environment, 2019, 659, 773-782.	3.9	53
49	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
50	Poreâ€scale network modeling of microbially induced calcium carbonate precipitation: Insight into scale dependence of biogeochemical reaction rates. Water Resources Research, 2016, 52, 8794-8810.	1.7	51
51	On the transient non-Fickian dispersion theory. Transport in Porous Media, 1996, 23, 107.	1.2	48
52	Systematic Study of Effects of pH and Ionic Strength on Attachment of Phage PRD1. Ground Water, 2011, 49, 12-19.	0.7	46
53	Capillary pressureâ€“saturation relationships for porous granular materials: Pore morphology method vs. pore unit assembly method. Advances in Water Resources, 2017, 107, 22-31.	1.7	46
54	Dimensional analysis of two-phase flow including a rate-dependent capillary pressureâ€“saturation relationship. Advances in Water Resources, 2008, 31, 1137-1150.	1.7	45

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55	Biodegradation of Toluene Under Seasonal and Diurnal Fluctuations of Soil-Water Temperature. Water, Air, and Soil Pollution, 2012, 223, 3579-3588.	1.1	43
56	Effective parameters for two-phase flow in a porous medium with periodic heterogeneities. Journal of Contaminant Hydrology, 2001, 49, 87-109.	1.6	42
57	The Effects of Swelling and Porosity Change on Capillarity: DEM Coupled with a Pore-Unit Assembly Method. Transport in Porous Media, 2016, 113, 207-226.	1.2	41
58	Modeling Kinetic Interphase Mass Transfer for Two-Phase Flow in Porous Media Including Fluidâ€“Fluid Interfacial Area. Transport in Porous Media, 2009, 80, 329-344.	1.2	40
59	Dynamic Effect in the Capillary Pressureâ€“Saturation Relationship and its Impacts on Unsaturated Flow. Vadose Zone Journal, 2002, 1, 38.	1.3	40
60	Non-equilibrium interphase heat and mass transfer during two-phase flow in porous mediaâ€"Theoretical considerations and modeling. Advances in Water Resources, 2009, 32, 1756-1766.	1.7	39
61	Dynamic Effect in the Capillary Pressure-Saturation Relationship and its Impacts on Unsaturated Flow. Vadose Zone Journal, 2002, 1, 38-57.	1.3	38
62	Interpretation of macroscale variables in Darcy's law. Water Resources Research, 2007, 43, .	1.7	37
63	Determination of protection zones for Dutch groundwater wells against virus contamination - uncertainty and sensitivity analysis. Journal of Water and Health, 2006, 4, 297-312.	1.1	35
64	On the definition of macroscale pressure for multiphase flow in porous media. Water Resources Research, 2008, 44, .	1.7	35
65	Impact of an historic underground gas well blowout on the current methane chemistry in a shallow groundwater system. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 296-301.	3.3	35
66	Pore-Network Modeling of Solute Transport and Biofilm Growth in Porous Media. Transport in Porous Media, 2015, 110, 345-367.	1.2	34
67	Multiphase flow through multilayers of thin porous media: General balance equations and constitutive relationships for a solidâ€“gasâ€“liquid three-phase system. International Journal of Heat and Mass Transfer, 2014, 70, 693-708.	2.5	33
68	A Numerical Study of Micro-Heterogeneity Effects on Upscaled Properties of Two-Phase Flow in Porous Media. Transport in Porous Media, 2004, 56, 329-350.	1.2	32
69	Vulnerability of unconfined aquifers to virus contamination. Water Research, 2010, 44, 1170-1181.	5.3	32
70	Study of Hydraulic Properties of Uncoated Paper: Image Analysis and Pore-Scale Modeling. Transport in Porous Media, 2017, 120, 67-81.	1.2	32
71	Velocity distributions in trapped and mobilized non-wetting phase ganglia in porous media. Scientific Reports, 2018, 8, 13228.	1.6	32
72	Two-Phase Flow Experiments in a Geocentrifuge and the Significance of Dynamic Capillary Pressure Effect. Journal of Porous Media, 2005, 8, 247-257.	1.0	31

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73	Pore-Scale Modeling of Multiphase Flow and Transport: Achievements and Perspectives. Transport in Porous Media, 2012, 94, 461-464.	1.2	30
74	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
75	Derivation of conditions describing transport across zones of reduced dynamics within multiphase systems. Water Resources Research, 1989, 25, 529-539.	1.7	29
76	Experimental Investigation of Hysteretic Dynamic Capillarity Effect in Unsaturated Flow. Water Resources Research, 2017, 53, 9078-9088.	1.7	29
77	Correlation equations for average deposition rate coefficients of nanoparticles in a cylindrical pore. Water Resources Research, 2015, 51, 8034-8059.	1.7	27
78	Internal flow patterns of a droplet pinned to the hydrophobic surfaces of a confined microchannel using micro-PIV and VOF simulations. Chemical Engineering Journal, 2019, 370, 444-454.	6.6	27
79	Impact of groundwater flow on methane gas migration and retention in unconsolidated aquifers. Journal of Contaminant Hydrology, 2020, 230, 103619.	1.6	27
80	UPSCALING TRANSPORTOF ADSORBING SOLUTES IN POROUS MEDIA. Journal of Porous Media, 2010, 13, 395-408.	1.0	27
81	Column experiments to study nonlinear removal of bacteriophages by passage through saturated dune sand. Journal of Contaminant Hydrology, 2002, 58, 243-259.	1.6	26
82	From Local Measurements to an Upscaled Capillary Pressureâ€"Saturation Curve. Transport in Porous Media, 2011, 88, 271-291.	1.2	26
83	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
84	Effect of hydrophobicity on colloid transport during twoâ€phase flow in a micromodel. Water Resources Research, 2014, 50, 7677-7691.	1.7	25
85	Imaging Spontaneous Imbibition in Full Darcyâ€Scale Samples at Poreâ€Scale Resolution by Fast Xâ€ray Tomography. Water Resources Research, 2019, 55, 7072-7085.	1.7	25
86	Evaluation of the kinetic oxidation of aqueous volatile organic compounds by permanganate. Science of the Total Environment, 2014, 485-486, 755-763.	3.9	24
87	Modeling Virus Adsorption in Batch and Column Experiments. Quantitative Microbiology, 2000, 2, 5-20.	0.5	22
88	Retention and remobilization of colloids during steady-state and transient two-phase flow. Water Resources Research, 2013, 49, 8005-8016.	1.7	22
89	Effect of dissolved calcium on the removal of bacteriophage PRD1 during soil passage: The role of double-layer interactions. Journal of Contaminant Hydrology, 2013, 144, 78-87.	1.6	22
90	Modeling the co-transport of viruses and colloids in unsaturated porous media. Journal of Contaminant Hydrology, 2015, 181, 82-101.	1.6	22

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91	Analysis of the Hysteretic Hydraulic Properties of Unsaturated Soil. Vadose Zone Journal, 2017, 16, 1-9.	1.3	21
92	Boundary and interface conditions in porous media. Water Resources Research, 1989, 25, 1705-1715.	1.7	19
93	Direct Simulation of Liquid Water Dynamics in the Gas Channel of a Polymer Electrolyte Fuel Cell. Journal of the Electrochemical Society, 2012, 159, B434-B443.	1.3	19
94	Modeling Virus Transport and Remobilization during Transient Partially Saturated Flow. Vadose Zone Journal, 2012, 11, vzj2011.0090.	1.3	19
95	Oxidation of volatile organic vapours in air by solid potassium permanganate. Chemosphere, 2013, 91, 1534-1538.	4.2	18
96	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
97	What is the Correct Definition of Average Pressure?. Transport in Porous Media, 2010, 84, 153-175.	1.2	17
98	Pore-Network Modeling of Water and Vapor Transport in the Micro Porous Layer and Gas Diffusion Layer of a Polymer Electrolyte Fuel Cell. Computation, 2016, 4, 21.	1.0	17
99	Impact of water salinity differential on a crude oil droplet constrained in a capillary: Pore-scale mechanisms. Fuel, 2020, 274, 117798.	3.4	17
100	Continuum-Scale Modeling of Liquid Redistribution in a Stack of Thin Hydrophilic Fibrous Layers. Transport in Porous Media, 2018, 122, 203-219.	1.2	16
101	Study of colloids transport during two-phase flow using a novel polydimethylsiloxane micro-model. Journal of Colloid and Interface Science, 2013, 401, 141-147.	5.0	15
102	Bacteriophage PRD1 batch experiments to study attachment, detachment and inactivation processes. Journal of Contaminant Hydrology, 2013, 152, 12-17.	1.6	15
103	Virus-sized colloid transport in a single pore: Model development and sensitivity analysis. Journal of Contaminant Hydrology, 2014, 164, 163-180.	1.6	15
104	The role of interfacial tension in colloid retention and remobilization during two-phase flow in a polydimethylsiloxane micro-model. Chemical Engineering Science, 2017, 168, 437-443.	1.9	15
105	Manufacturing a Micro-model with Integrated Fibre Optic Pressure Sensors. Transport in Porous Media, 2018, 122, 221-234.	1.2	15
106	Bridging Effective Stress and Soil Water Retention Equations in Deforming Unsaturated Porous Media: A Thermodynamic Approach. Transport in Porous Media, 2017, 117, 349-365.	1.2	14
107	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
108	Heat release at the wetting front during capillary filling of cellulosic micro-substrates. Journal of Colloid and Interface Science, 2017, 504, 751-757.	5.0	13

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109	Theoretical and experimental investigations on the role of transient effects in the water retention behaviour of unsaturated granular soils. Geomechanics for Energy and the Environment, 2018, 15, 54-64.	1.2	13
110	Dynamic Poreâ€Scale Model of Drainage in Granular Porous Media: The Poreâ€Unit Assembly Method. Water Resources Research, 2018, 54, 4193-4213.	1.7	13
111	Evaluation of LNAPL Behavior in Water Table Inter-Fluctuate Zone under Groundwater Drawdown Condition. Water (Switzerland), 2020, 12, 2337.	1.2	13
112	Simultaneous thermal and optical imaging of two-phase flow in a micro-model. Lab on A Chip, 2014, 14, 2515.	3.1	12
113	Long-term inactivation of bacteriophage PRD1 as a function of temperature, pH, sodium and calcium concentration. Water Research, 2016, 103, 66-73.	5.3	11
114	Occurrence of temperature spikes at a wetting front during spontaneous imbibition. Scientific Reports, 2017, 7, 7268.	1.6	11
115	Macro-Scale Dynamic Effects in Homogeneous and Heterogeneous Porous Media. , 2005, , 121-145.		11
116	One-Dimensional Phenomenological Model for Liquid Water Flooding in Cathode Gas Channel of a Polymer Electrolyte Fuel Cell. Journal of the Electrochemical Society, 2012, 159, B737-B745.	1.3	10
117	Revisiting the horizontal redistribution of water in soils: Experiments and numerical modeling. Water Resources Research, 2017, 53, 7576-7589.	1.7	10
118	A Two-Phase SPH Model for Dynamic Contact Angles Including Fluidâ€"Solid Interactions at the Contact Line. Transport in Porous Media, 2018, 122, 253-277.	1.2	10
119	Droplet Imbibition into Paper Coating Layer: Pore-Network Modeling Simulation. Transport in Porous Media, 2018, 125, 239-258.	1.2	10
120	Capillary pressureâ€"saturation curves of thin hydrophilic fibrous layers: effects of overburden pressure, number of layers, and multiple imbibitionâ€"drainage cycles. Textile Reseach Journal, 2019, 89, 4906-4915.	1.1	10
121	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
122	Modeling Uranium Transport in Koongarra, Australia: The Effect of a Moving Weathering Zone. Mathematical Geosciences, 2001, 33, 1-29.	0.9	9
123	Characterization of the Interface Between Coating and Fibrous Layers of Paper. Transport in Porous Media, 2019, 127, 143-155.	1.2	9
124	Effect of Initial Hydraulic Conditions on Capillary Rise in a Porous Medium: Pore-Network Modeling. Vadose Zone Journal, 2012, 11, vzj2011.0128.	1.3	8
125	Modeling of Horizontal Water Redistribution in an Unsaturated Soil. Vadose Zone Journal, 2016, 15, 1-11.	1.3	8
126	Effect of Nanoscale Surface Textures on Multiphase Flow Dynamics in Capillaries. Langmuir, 2019, 35, 7322-7331.	1.6	8

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127	The effect of particle shape on porosity of swelling granular materials: Discrete element method and the multi-sphere approximation. Powder Technology, 2020, 360, 1295-1304.	2.1	8
128	Laboratory Experiments and Simulations on the Significance of Non-Equilibrium Effect in the Capillary Pressure-Saturation Relationship. , 2005, , 3-14.		7
129	Mechanics of Unsaturated Soils: from Equilibrium to Transient Conditions. , 2013, , .		7
130	Revealing how interfaces in stacked thin fibrous layers affect liquid ingress and transport properties by single-sided NMR. Journal of Magnetic Resonance, 2018, 294, 16-23.	1.2	7
131	Unsaturated flow in a packing of swelling particles; a grain-scale model. Advances in Water Resources, 2020, 142, 103642.	1.7	7
132	The dissolution and microbial degradation of mobile aromatic hydrocarbons from a Pintsch gas tar DNAPL source zone. Science of the Total Environment, 2020, 722, 137797.	3.9	7
133	Horizontal Redistribution of Two Fluid Phases in a Porous Medium: Experimental Investigations. Transport in Porous Media, 2014, 105, 503-515.	1.2	5
134	Principle of Effective Stress in Variably Saturated Porous Media. Vadose Zone Journal, 2014, 13, 1-4.	1.3	5
135	Megascale thermodynamics in the presence of a conservative field: The watershed case. Advances in Water Resources, 2016, 97, 73-86.	1.7	5
136	Continuum-scale modeling of water infiltration into a stack of two thin fibrous layers and their inter-layer space. Chemical Engineering Science, 2019, 207, 769-779.	1.9	5
137	Modeling Two-Phase Flow in Porous Media Including Fluid-Fluid Interfacial Area. , 2008, , .		4
138	Numerical studies on liquid water flooding in gas channels used in polymer electrolyte fuel cells. Chemical Engineering Science, 2012, 82, 223-231.	1.9	4
139	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
140	Grain-Scale Modelling of Swelling Granular Materials Using the Discrete Element Method and the Multi-Sphere Approximation. , 2017, , .		4
141	Experimental and Numerical Studies of Saturation Overshoot during Infiltration into a Dry Soil. Vadose Zone Journal, 2019, 18, 1-13.	1.3	4
142	Modeling two-phase flow in a micro-model with local thermal non-equilibrium on the Darcy scale. International Journal of Heat and Mass Transfer, 2015, 88, 822-835.	2.5	3
143	Bias by the inappropriate use of the pseudo-first order approach to estimate second-order reaction rate constants: Reply to the commentary by Tratnyek (this issue). Science of the Total Environment, 2015, 502, 724-725.	3.9	3
144	Determination of the relationship among capillary pressure, saturation and interfacial area: a pore unit assembly approach. E3S Web of Conferences, 2016, 9, 02002.	0.2	3

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145	The Effect of Dynamic Capillarity in Modeling Saturation Overshoot during Infiltration. Vadose Zone Journal, 2019, 18, 1-14.	1.3	3
146	Spontaneous Imbibition and Drainage of Water in a Thin Porous Layer: Experiments and Modeling. Transport in Porous Media, 2021, 139, 381-396.	1.2	3
147	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
148	Experimental Analysis of Mass Exchange Across a Heterogeneity Interface: Role of Counterâ€Current Transport and Nonâ€Linear Diffusion. Water Resources Research, 2022, 58, .	1.7	3
149	Reply [to â€œComment on â€˜Paradoxes and realities in unsaturated flow theoryâ€™ by W. G. Gray and S. M. Hassanizadehâ€]. Water Resources Research, 1994, 30, 1625-1626.	1.7	2
150	Comment on â€œmulticomponent, multiphase thermomechanics with interfacesâ€•by S. Achanta, J. H. Cushman and M. R. Okos, Int. J. Engng Sci. 32, 1717â€“1738 (1994). International Journal of Engineering Science, 1996, 34, 531-534.	2.7	2
151	Perface on Upscaling Multiphase Flow in Porous Media: From Pore to Core and Beyond. Transport in Porous Media, 2005, 58, 1-3.	1.2	2
152	Solute Mass Exchange Between Water Phase and Biofilm for a Single Pore. Transport in Porous Media, 2015, 109, 255-278.	1.2	2
153	Bundle-of-Tubes Model for Calculating Dynamic Effects in the Capillary-Pressure-Saturation Relationship. , 2005, , 5-22.		2
154	A two-way coupled model for the co-transport of two different colloids in porous media. Journal of Contaminant Hydrology, 2022, 244, 103922.	1.6	2
155	Anaerobic degradation of benzene and other aromatic hydrocarbons in a tar-derived plume: Nitrate versus iron reducing conditions. Journal of Contaminant Hydrology, 2022, 248, 104006.	1.6	2
156	Dynamic effects in capillary pressure relationships for two-phase flow in porous media: insights from bundle-of-tubes models and their implications. Developments in Water Science, 2004, 55, 127-138.	0.1	1
157	Reply to the Comments on â€œBridging Effective Stress and Soil Water Retention Equations in Deforming Unsaturated Porous Media: A Thermodynamic Approachâ€â€”by Nasser Khalili and Arman Khoshghalb. Transport in Porous Media, 2018, 122, 521-526.	1.2	1
158	Dynamic Pore-Network Models Development. Advances in Mechanics and Mathematics, 2019, , 337-356.	0.2	1
159	Numerical Simulation and Homogenization of Two-Phase Flow in Heterogeneous Porous Media. , 2000, , 333-338.		0