

# S H Hejazi

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,756  
citations

304602

22  
h-index

289141

40  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1203  
citing authors

#	ARTICLE	IF	CITATIONS
1	Underground hydrogen storage: Influencing parameters and future outlook. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102473.	7.0	167
2	Noncontact and Nonintrusive Microwave-Microfluidic Flow Sensor for Energy and Biomedical Engineering. <i>Scientific Reports</i> , 2018, 8, 139.	1.6	125
3	CO <sub>2</sub> and CH <sub>4</sub> Wettabilities of Organic-Rich Shale. <i>Energy &amp; Fuels</i> , 2018, 32, 1914-1922.	2.5	108
4	Viscous fingering of a miscible reactive $A + B \rightarrow C$ interface: a linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2010, 652, 501-528.	1.4	88
5	Rock-fluid interfacial tension at subsurface conditions: Implications for H <sub>2</sub> , CO <sub>2</sub> and natural gas geo-storage. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25578-25585.	3.8	84
6	Assessment of wettability and rock-fluid interfacial tension of caprock: Implications for hydrogen and carbon dioxide geo-storage. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14104-14120.	3.8	81
7	A review on clay wettability: From experimental investigations to molecular dynamics simulations. <i>Advances in Colloid and Interface Science</i> , 2020, 285, 102266.	7.0	79
8	Methane (CH <sub>4</sub> ) Wettability of Clay-Coated Quartz at Reservoir Conditions. <i>Energy &amp; Fuels</i> , 2019, 33, 788-795.	2.5	64
9	Viscoelastic properties of poly (vinyl alcohol) hydrogels with cellulose nanocrystals fabricated through sodium chloride addition: Rheological evidence of double network formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 609, 125577.	2.3	57
10	An ensemble learning approach to digital corona virus preliminary screening from cough sounds. <i>Scientific Reports</i> , 2021, 11, 15404.	1.6	50
11	Role of fluid density on quartz wettability. <i>Journal of Petroleum Science and Engineering</i> , 2019, 172, 511-516.	2.1	46
12	Nonlinear viscoelastic characterization of charged cellulose nanocrystal network structure in the presence of salt in aqueous media. <i>Cellulose</i> , 2020, 27, 5729-5743.	2.4	42
13	Emulsification in a microfluidic flow-focusing device: Effect of the dispersed phase viscosity. <i>Fuel</i> , 2021, 283, 119229.	3.4	40
14	Thermal conductivity of granular porous media: A pore scale modeling approach. <i>AIP Advances</i> , 2015, 5, .	0.6	39
15	The interfacial properties of clay-coated quartz at reservoir conditions. <i>Fuel</i> , 2020, 262, 116461.	3.4	39
16	Geo-material surface modification of microchips using layer-by-layer (LbL) assembly for subsurface energy and environmental applications. <i>Lab on A Chip</i> , 2018, 18, 285-295.	3.1	37
17	Flow Simulation of Artificially Induced Microfractures Using Digital Rock and Lattice Boltzmann Methods. <i>Energies</i> , 2018, 11, 2145.	1.6	33
18	Cellulose nanocrystal structure in the presence of salts. <i>Cellulose</i> , 2019, 26, 9387-9401.	2.4	33

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19	Estimation of surface-wave group velocity using slant stack in the generalized S-transform domain. <i>Geophysics</i> , 2015, 80, EN83-EN92.	1.4	32
20	Polymeric-nanofluids stabilized emulsions: Interfacial versus bulk rheology. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 252-263.	5.0	32
21	Colloidal Behavior of Cellulose Nanocrystals in Presence of Sodium Chloride. <i>ChemistrySelect</i> , 2018, 3, 4969-4978.	0.7	31
22	Wetting dynamics of nanoliter water droplets in nanoporous media. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 411-423.	5.0	31
23	Stability of reactive interfaces in saturated porous media under gravity in the presence of transverse flows. <i>Journal of Fluid Mechanics</i> , 2012, 695, 439-466.	1.4	22
24	Role of chemical additives on water-based heavy oil mobilization: A microfluidic approach. <i>Fuel</i> , 2019, 241, 1195-1202.	3.4	22
25	Functionalized multiscale visual models to unravel flow and transport physics in porous structures. <i>Water Research</i> , 2020, 175, 115676.	5.3	22
26	Self-assembly of highly ordered micro- and nanoparticle deposits. <i>Nature Communications</i> , 2022, 13, .	5.8	22
27	Low-permeability reservoir sample wettability characterization at multiple scales: Pore-, micro- and macro-contact angles. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104229.	2.1	20
28	Quantitative Statistical Evaluation of Micro Residual Oil after Polymer Flooding Based on X-ray Micro Computed-Tomography Scanning. <i>Energy &amp; Fuels</i> , 2020, 34, 10762-10772.	2.5	19
29	Effect of deformation on the thermal conductivity of granular porous media with rough grain surface. <i>Geophysical Research Letters</i> , 2017, 44, 8285-8293.	1.5	18
30	Dual Stimuli-Responsive Pickering Emulsions from Novel Magnetic Hydroxyapatite Nanoparticles and Their Characterization Using a Microfluidic Platform. <i>Langmuir</i> , 2021, 37, 1353-1364.	1.6	18
31	Suspensions and hydrogels of cellulose nanocrystals (CNCs): characterization using microscopy and rheology. <i>Cellulose</i> , 2022, 29, 3621-3653.	2.4	18
32	Nonlinear simulation of transverse flow interactions with chemically driven convective mixing in porous media. <i>Water Resources Research</i> , 2013, 49, 4607-4618.	1.7	17
33	Wetting dynamics in two-liquid systems: Effect of the surrounding phase viscosity. <i>Physical Review E</i> , 2018, 97, 063104.	0.8	17
34	Theoretical study of brine secondary imbibition in sandstone reservoirs: Implications for H <sub>2</sub> , CH <sub>4</sub> , and CO <sub>2</sub> geo-storage. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18058-18066.	3.8	17
35	Estimation of concentration-dependent diffusion coefficients of gases in heavy oils/bitumen using experimental pressure-decay data. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 2407-2416.	0.9	16
36	Confocal analysis of cellulose nanocrystal (CNC) based hydrogels and suspensions. <i>Cellulose</i> , 2021, 28, 10259-10276.	2.4	15

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37	Interfacial Assembly of Graphene Oxide: From Super Elastic Interfaces to Liquidâ€”Liquid Printing. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	15
38	Hydrodynamic instability in the transport of miscible reactive slices through porous media. <i>Physical Review E</i> , 2010, 81, 056321.	0.8	14
39	Longitudinal dispersion in heterogeneous layered porous media during stable and unstable pore-scale miscible displacements. <i>Advances in Water Resources</i> , 2018, 119, 125-141.	1.7	13
40	Wetting Phase Disintegration and Detachment: Three-Dimensional Confocal Imaging of Two-Phase Distributions. <i>Physical Review Applied</i> , 2019, 11, .	1.5	13
41	Spongy all-in-liquid materials by in-situ formation of emulsions at oil-water interfaces. <i>Nature Communications</i> , 2022, 13, .	5.8	13
42	Geomaterialâ€”Functionalized Microfluidic Devices Using a Universal Surface Modification Approach. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900995.	1.9	12
43	Mini Review on Wettability in the Methaneâ€”Liquidâ€”Rock System at Reservoir Conditions: Implications for Gas Recovery and Geo-Storage. <i>Energy &amp; Fuels</i> , 2022, 36, 4268-4275.	2.5	12
44	Pore scale evaluation of thermal conduction anisotropy in granular porous media using Lattice Boltzmann method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 867-888.	1.6	11
45	Spontaneous Formation of Double Emulsions at Particle-Laden Interfaces. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 510-521.	5.0	11
46	Effect of Elastic Deformation and Rough Grain Surface on Heat Conduction in Partially Saturated Granular Porous Media. <i>Water Resources Research</i> , 2018, 54, 9533-9548.	1.7	8
47	Pore-level modeling of effective longitudinal thermal dispersion in non-isothermal flows through granular porous media. <i>Chemical Engineering Science</i> , 2019, 199, 451-462.	1.9	8
48	Thermal Conduction in Deforming Isotropic and Anisotropic Granular Porous Media with Rough Grain Surface. <i>Transport in Porous Media</i> , 2018, 124, 221-236.	1.2	6
49	Cellulose Nanocrystal Laden Oilâ€”Water Interfaces: Interfacial Viscoelasticity, Emulsion Stability, and the Dynamics of Three-Phase Contact-Lines. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 4892-4902.	1.8	6
50	Two phase flow of liquids in a narrow gap: Phase interference and hysteresis. <i>Physics of Fluids</i> , 2016, 28, 074102.	1.6	5
51	Pore-scale modeling of coupled thermal and solutal dispersion in double diffusive-advective flows through porous media. <i>International Journal of Heat and Mass Transfer</i> , 2020, 147, 118730.	2.5	5
52	The Effect of Flow Swing on Waterflood Under Oil-Wet Conditions: A Pore-Level Study. <i>Transport in Porous Media</i> , 2021, 137, 109-130.	1.2	1
53	Interfacial Assembly of Graphene Oxide: From Super Elastic Interfaces to Liquidâ€”Liquid Printing (Adv.) <i>Tj ETQq</i> 1 1 0.784314 rgBT	1.9	1
54	Wetting Dynamics of Nanoparticle Dispersions: From Fully Spreading to Non-sticking and the Deposition of Nanoparticle-Laden Surface Droplets. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20280-20290.	4.0	1