# S H Hejazi

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Interfacial Assembly of Graphene Oxide: From Super Elastic Interfaces to Liquidâ€inâ€Liquid Printing. Advanced Materials Interfaces, 2022, 9, . | 1.9 | 15 |
| 2 | Interfacial Assembly of Graphene Oxide: From Super Elastic Interfaces to Liquidâ€inâ€Liquid Printing (Adv.) Tj ETQq0 0 0 rgBT /Overlock | 1.9 | 1 |
| 3 | Assessment of wettability and rock-fluid interfacial tension of caprock: Implications for hydrogen and carbon dioxide geo-storage. International Journal of Hydrogen Energy, 2022, 47, 14104-14120. | 3.8 | 81 |
| 4 | Mini Review on Wettability in the Methaneâ€“Liquidâ€“Rock System at Reservoir Conditions: Implications for Gas Recovery and Geo-Storage. Energy & Fuels, 2022, 36, 4268-4275. | 2.5 | 12 |
| 5 | Suspensions and hydrogels of cellulose nanocrystals (CNCs): characterization using microscopy and rheology. Cellulose, 2022, 29, 3621-3653. | 2.4 | 18 |
| 6 | Wetting Dynamics of Nanoparticle Dispersions: From Fully Spreading to Non-sticking and the Deposition of Nanoparticle-Laden Surface Droplets. ACS Applied Materials & Interfaces, 2022, 14, 20280-20290. | 4.0 | 1 |
| 7 | Theoretical study of brine secondary imbibition in sandstone reservoirs: Implications for H2, CH4, and CO2 geo-storage. International Journal of Hydrogen Energy, 2022, 47, 18058-18066. | 3.8 | 17 |
| 8 | Self-assembly of highly ordered micro- and nanoparticle deposits. Nature Communications, 2022, 13, . | 5.8 | 22 |
| 9 | Spongy all-in-liquid materials by in-situ formation of emulsions at oil-water interfaces. Nature Communications, 2022, 13, . | 5.8 | 13 |
| 10 | Emulsification in a microfluidic flow-focusing device: Effect of the dispersed phase viscosity. Fuel, 2021, 283, 119229. | 3.4 | 40 |
| 11 | Spontaneous Formation of Double Emulsions at Particle-Laden Interfaces. Journal of Colloid and Interface Science, 2021, 587, 510-521. | 5.0 | 11 |
| 12 | Viscoelastic properties of poly (vinyl alcohol) hydrogels with cellulose nanocrystals fabricated through sodium chloride addition: Rheological evidence of double network formation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125577. | 2.3 | 57 |
| 13 | Dual Stimuli-Responsive Pickering Emulsions from Novel Magnetic Hydroxyapatite Nanoparticles and Their Characterization Using a Microfluidic Platform. Langmuir, 2021, 37, 1353-1364. | 1.6 | 18 |
| 14 | The Effect of Flow Swing on Waterflood Under Oil-Wet Conditions: A Pore-Level Study. Transport in Porous Media, 2021, 137, 109-130. | 1.2 | 1 |
| 15 | Cellulose Nanocrystal Laden Oilâ€“Water Interfaces: Interfacial Viscoelasticity, Emulsion Stability, and the Dynamics of Three-Phase Contact-Lines. Industrial & Engineering Chemistry Research, 2021, 60, 4892-4902. | 1.8 | 6 |
| 16 | Wetting dynamics of nanoliter water droplets in nanoporous media. Journal of Colloid and Interface Science, 2021, 589, 411-423. | 5.0 | 31 |
| 17 | Underground hydrogen storage: Influencing parameters and future outlook. Advances in Colloid and Interface Science, 2021, 294, 102473. | 7.0 | 167 |
| 18 | An ensemble learning approach to digital corona virus preliminary screening from cough sounds. Scientific Reports, 2021, 11, 15404. | 1.6 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Rock-fluid interfacial tension at subsurface conditions: Implications for H2, CO2 and natural gas geo-storage. International Journal of Hydrogen Energy, 2021, 46, 25578-25585. | 3.8 | 84 |
| 20 | Confocal analysis of cellulose nanocrystal (CNC) based hydrogels and suspensions. Cellulose, 2021, 28, 10259-10276. | 2.4 | 15 |
| 21 | Low-permeability reservoir sample wettability characterization at multiple scales: Pore-, micro- and macro-contact angles. Journal of Natural Gas Science and Engineering, 2021, 95, 104229. | 2.1 | 20 |
| 22 | The interfacial properties of clay-coated quartz at reservoir conditions. Fuel, 2020, 262, 116461. | 3.4 | 39 |
| 23 | Pore-scale modeling of coupled thermal and solutal dispersion in double diffusive-advective flows through porous media. International Journal of Heat and Mass Transfer, 2020, 147, 118730. | 2.5 | 5 |
| 24 | A review on clay wettability: From experimental investigations to molecular dynamics simulations. Advances in Colloid and Interface Science, 2020, 285, 102266. | 7.0 | 79 |
| 25 | Quantitative Statistical Evaluation of Micro Residual Oil after Polymer Flooding Based on X-ray Micro Computed-Tomography Scanning. Energy & Fuels, 2020, 34, 10762-10772. | 2.5 | 19 |
| 26 | Functionalized multiscale visual models to unravel flow and transport physics in porous structures. Water Research, 2020, 175, 115676. | 5.3 | 22 |
| 27 | Nonlinear viscoelastic characterization of charged cellulose nanocrystal network structure inÂthe presence of salt in aqueous media. Cellulose, 2020, 27, 5729-5743. | 2.4 | 42 |
| 28 | Polymeric-nanofluids stabilized emulsions: Interfacial versus bulk rheology. Journal of Colloid and Interface Science, 2020, 576, 252-263. | 5.0 | 32 |
| 29 | GeomaterialâEFunctionalized Microfluidic Devices Using a Universal Surface Modification Approach. Advanced Materials Interfaces, 2019, 6, 1900995. | 1.9 | 12 |
| 30 | Cellulose nanocrystal structure in the presence of salts. Cellulose, 2019, 26, 9387-9401. | 2.4 | 33 |
| 31 | Methane (CH<sub>4</sub>) Wettability of Clay-Coated Quartz at Reservoir Conditions. Energy & Fuels, 2019, 33, 788-795. | 2.5 | 64 |
| 32 | Wetting Phase Disintegration and Detachment: Three-Dimensional Confocal Imaging of Two-Phase Distributions. Physical Review Applied, 2019, 11, . | 1.5 | 13 |
| 33 | Pore-level modeling of effective longitudinal thermal dispersion in non-isothermal flows through granular porous media. Chemical Engineering Science, 2019, 199, 451-462. | 1.9 | 8 |
| 34 | Role of chemical additives on water-based heavy oil mobilization: A microfluidic approach. Fuel, 2019, 241, 1195-1202. | 3.4 | 22 |
| 35 | Role of fluid density on quartz wettability. Journal of Petroleum Science and Engineering, 2019, 172, 511-516. | 2.1 | 46 |
| 36 | Thermal Conduction in Deforming Isotropic and Anisotropic Granular Porous Media with Rough Grain Surface. Transport in Porous Media, 2018, 124, 221-236. | 1.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Noncontact and Nonintrusive Microwave-Microfluidic Flow Sensor for Energy and Biomedical Engineering. Scientific Reports, 2018, 8, 139. | 1.6 | 125 |
| 38 | CO<sub>2</sub> and CH<sub>4</sub> Wettabilities of Organic-Rich Shale. Energy & Fuels, 2018, 32, 1914-1922. | 2.5 | 108 |
| 39 | Geo-material surface modification of microchips using layer-by-layer (LbL) assembly for subsurface energy and environmental applications. Lab on A Chip, 2018, 18, 285-295. | 3.1 | 37 |
| 40 | Flow Simulation of Artificially Induced Microfractures Using Digital Rock and Lattice Boltzmann Methods. Energies, 2018, 11, 2145. | 1.6 | 33 |
| 41 | Effect of Elastic Deformation and Rough Grain Surface on Heat Conduction in Partially Saturated Granular Porous Media. Water Resources Research, 2018, 54, 9533-9548. | 1.7 | 8 |
| 42 | Colloidal Behavior of Cellulose Nanocrystals in Presence of Sodium Chloride. ChemistrySelect, 2018, 3, 4969-4978. | 0.7 | 31 |
| 43 | Longitudinal dispersion in heterogeneous layered porous media during stable and unstable pore-scale miscible displacements. Advances in Water Resources, 2018, 119, 125-141. | 1.7 | 13 |
| 44 | Wetting dynamics in two-liquid systems: Effect of the surrounding phase viscosity. Physical Review E, 2018, 97, 063104. | 0.8 | 17 |
| 45 | Pore scale evaluation of thermal conduction anisotropy in granular porous media using Lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 867-888. | 1.6 | 11 |
| 46 | Effect of deformation on the thermal conductivity of granular porous media with rough grain surface. Geophysical Research Letters, 2017, 44, 8285-8293. | 1.5 | 18 |
| 47 | Two phase flow of liquids in a narrow gap: Phase interference and hysteresis. Physics of Fluids, 2016, 28, 074102. | 1.6 | 5 |
| 48 | Estimation of concentrationâ€dependent diffusion coefficients of gases in heavy oils/bitumen using experimental pressureâ€decay data. Canadian Journal of Chemical Engineering, 2016, 94, 2407-2416. | 0.9 | 16 |
| 49 | Thermal conductivity of granular porous media: A pore scale modeling approach. AIP Advances, 2015, 5, . | 0.6 | 39 |
| 50 | Estimation of surface-wave group velocity using slant stack in the generalized S-transform domain. Geophysics, 2015, 80, EN83-EN92. | 1.4 | 32 |
| 51 | Nonlinear simulation of transverse flow interactions with chemically driven convective mixing in porous media. Water Resources Research, 2013, 49, 4607-4618. | 1.7 | 17 |
| 52 | Stability of reactive interfaces in saturated porous media under gravity in the presence of transverse flows. Journal of Fluid Mechanics, 2012, 695, 439-466. | 1.4 | 22 |
| 53 | Viscous fingering of a miscible reactive A + B â†' C interface: a linear stability analysis. Journal of Fluid Mechanics, 2010, 652, 501-528. | 1.4 | 88 |
| 54 | Hydrodynamic instability in the transport of miscible reactive slices through porous media. Physical Review E, 2010, 81, 056321. | 0.8 | 14 |