

# Ali Saeedi

## List of Publications by Year in descending order

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94  
papers

3,168  
citations

136740

32  
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168136

53  
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94  
all docs

94  
docs citations

94  
times ranked

2060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of mineralogy, salinity, and temperature on the adsorption characteristics of a novel natural surfactant for enhanced oil recovery. <i>Chemical Engineering Communications</i> , 2022, 209, 143-157.	1.5	10
2	X-Ray Computed Tomography Assisted Investigation of Flow Behaviour of Miscible CO <sub>2</sub> to Enhance Oil Recovery in Layered Sandstone Porous Media. , 2022, , .		1
3	The impact of wormhole generation in carbonate reservoirs on CO <sub>2</sub> -WAG oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2022, 212, 110354.	2.1	10
4	Impact of prolonged water-gas flow on the performance of polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	3
5	Chemical-assisted minimum miscibility pressure reduction between oil and methane. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 108094.	2.1	9
6	Interfacial, Emulsifying, and Rheological Properties of an Additive of a Natural Surfactant and Polymer and Its Performance Assessment for Application in Enhanced Oil Recovery. <i>Energy &amp; Fuels</i> , 2021, 35, 4823-4834.	2.5	17
7	pH effect on wettability of NH <sup>+</sup> -brine-muscovite system: Implications for low salinity effect in sandstone reservoirs. <i>Journal of Molecular Liquids</i> , 2021, 325, 115049.	2.3	1
8	CO <sub>2</sub> -wettability reversal of cap-rock by alumina nanofluid: Implications for CO <sub>2</sub> geo-storage. <i>Fuel Processing Technology</i> , 2021, 214, 106722.	3.7	64
9	Further Insights into the Performance of Silylated Polyacrylamide-Based Relative Permeability Modifiers in Carbonate Reservoirs and Influencing Factors. <i>ACS Omega</i> , 2021, 6, 13671-13683.	1.6	6
10	Wettability alteration using benzoxazine resin: A remedy for water blockage in sandstone gas reservoirs. <i>Fuel</i> , 2021, 291, 120189.	3.4	6
11	Rock/Fluid/Polymer Interaction Mechanisms: Implications for Water Shut-off Treatment. <i>Energy &amp; Fuels</i> , 2021, 35, 12809-12827.	2.5	9
12	Effect of Functional Groups on Chemical-Assisted MMP Reduction of a Methane-Oil System. <i>Energy &amp; Fuels</i> , 2021, 35, 14519-14526.	2.5	3
13	Fluid-Fluid Interfacial Effects in Multiphase Flow during Carbonated Waterflooding in Sandstone: Application of X-ray Microcomputed Tomography and Molecular Dynamics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5731-5740.	4.0	7
14	Effect of nanofluid on CO <sub>2</sub> -wettability reversal of sandstone formation; implications for CO <sub>2</sub> geo-storage. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 304-312.	5.0	108
15	Modifying the Wettability of Sandstones Using Nonfluorinated Silylation: To Minimize the Water Blockage Effect. <i>Energy &amp; Fuels</i> , 2020, 34, 709-719.	2.5	9
16	Impact of surface roughness on wettability of oil-brine-calcite system at sub-pore scale. <i>Journal of Molecular Liquids</i> , 2020, 299, 112107.	2.3	39
17	Response of Non-Polar Oil Component on Low Salinity Effect in Carbonate Reservoirs: Adhesion Force Measurement Using Atomic Force Microscopy. <i>Energies</i> , 2020, 13, 77.	1.6	12
18	Influence of pH on Acidic Oil-Brine-Carbonate Adhesion Using Atomic Force Microscopy. <i>Energy &amp; Fuels</i> , 2020, 34, 13750-13758.	2.5	6

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19	Influence of Organic Acid Concentration on Wettability Alteration of Cap-Rock: Implications for CO <sub>2</sub> Trapping/Storage. ACS Applied Materials & Interfaces, 2020, 12, 39850-39858.	4.0	88
20	1-Pentanol-Assisted Waterflooding in High Salinity Brine up to 140°C in Carbonate Reservoirs. Energy & Fuels, 2020, 34, 12215-12224.	2.5	0
21	Mechanistic Aspects of Polymeric Relative Permeability Modifier Adsorption onto Carbonate Rocks. Energy & Fuels, 2020, 34, 12065-12077.	2.5	8
22	Interpreting micromechanics of fluid-shale interactions with geochemical modelling and disjoining pressure: Implications for calcite-rich and quartz-rich shales. Journal of Molecular Liquids, 2020, 319, 114117.	2.3	11
23	Effects of CO <sub>2</sub> -Saturated Brine on the Injectivity and Integrity of Chalk Reservoirs. Transport in Porous Media, 2020, 135, 735-751.	1.2	8
24	Low-Salinity-Assisted Cationic Polyacrylamide Water Shutoff in Low-Permeability Sandstone Gas Reservoirs. Energy & Fuels, 2020, 34, 5524-5536.	2.5	9
25	Carbonated waterflooding in carbonate reservoirs: Experimental evaluation and geochemical interpretation. Journal of Molecular Liquids, 2020, 308, 113055.	2.3	5
26	Geochemical insights for CO <sub>2</sub> huff-n-puff process in shale oil reservoirs. Journal of Molecular Liquids, 2020, 307, 112992.	2.3	5
27	Changing Sandstone Rock Wettability with Supercritical CO <sub>2</sub> -Based Silylation. Energy & Fuels, 2020, 34, 2015-2027.	2.5	7
28	Effect of the Fluid-Shale Interaction on Salinity: Implications for High-Salinity Flowback Water during Hydraulic Fracturing in Shales. Energy & Fuels, 2020, 34, 3031-3040.	2.5	27
29	Role of brine composition on rock surface energy and its implications for subcritical crack growth in calcite. Journal of Molecular Liquids, 2020, 303, 112638.	2.3	14
30	Geochemical controls on wettability alteration at pore-scale during low salinity water flooding in sandstone using X-ray micro computed tomography. Fuel, 2020, 271, 117675.	3.4	36
31	Interpreting Water Uptake by Shale with Ion Exchange, Surface Complexation, and Disjoining Pressure. Energy & Fuels, 2019, 33, 8250-8258.	2.5	20
32	Effects of oligomers dissolved in CO <sub>2</sub> or associated gas on IFT and miscibility pressure with a gas-light crude oil system. Journal of Petroleum Science and Engineering, 2019, 181, 106210.	2.1	13
33	Role of Basal-Charged Clays in Low Salinity Effect in Sandstone Reservoirs: Adhesion Force on Muscovite using Atomic Force Microscope. Energy & Fuels, 2019, 33, 756-764.	2.5	16
34	Wettability alteration induced water uptake in shale oil reservoirs: A geochemical interpretation for oil-brine-OM interaction during hydraulic fracturing. International Journal of Coal Geology, 2019, 213, 103277.	1.9	31
35	Alcohol-Assisted Waterflooding in Carbonate Reservoirs. Energy & Fuels, 2019, 33, 10651-10658.	2.5	7
36	Excess H <sub>2</sub> Increases Hydrophilicity during CO <sub>2</sub> -Assisted Enhanced Oil Recovery in Sandstone Reservoirs. Energy & Fuels, 2019, 33, 814-821.	2.5	31

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37	Evaluation of Miscible CO <sub>2</sub> WAG/Sandstone Interactions: Emphasis on the Effect of Permeability Heterogeneity and Clay Mineral Content. , 2019, , .		0
38	Influence of Surface Roughness on the Contact Angle due to Calcite Dissolution in an Oil-Brine-Calcite System: A Nanoscale Analysis Using Atomic Force Microscopy and Geochemical Modeling. Energy & Fuels, 2019, 33, 4219-4224.	2.5	24
39	Electrostatic characterization of -NH <sup>+</sup> -brine-kaolinite system: Implications for low salinity waterflooding in sandstone reservoirs. Journal of Petroleum Science and Engineering, 2019, 179, 539-545.	2.1	15
40	Insights into immiscible supercritical CO <sub>2</sub> EOR: An XCT scanner assisted flow behaviour in layered sandstone porous media. Journal of CO <sub>2</sub> Utilization, 2019, 32, 187-195.	3.3	29
41	Insights into the wettability alteration of CO <sub>2</sub> -assisted EOR in carbonate reservoirs. Journal of Molecular Liquids, 2019, 279, 420-426.	2.3	37
42	A New Dimensionless Approach to Assess Relative Permeability Modifiers. Energy & Fuels, 2019, 33, 3448-3455.	2.5	8
43	Analytical modelling of wettability alteration-induced micro-fractures during hydraulic fracturing in tight oil reservoirs. Fuel, 2019, 249, 434-440.	3.4	37
44	Low salinity water flooding in high acidic oil reservoirs: Impact of pH on wettability of carbonate reservoirs. Journal of Molecular Liquids, 2019, 281, 444-450.	2.3	54
45	Effective Mechanisms to Relate Initial Rock Permeability to Outcome of Relative Permeability Modification. Energies, 2019, 12, 4688.	1.6	10
46	Direct Gas Thickener. , 2019, , .		0
47	An experimental study for carbonate reservoirs on the impact of CO <sub>2</sub> -EOR on petrophysics and oil recovery. Fuel, 2019, 235, 1019-1038.	3.4	50
48	Role of ion exchange, surface complexation, and albite dissolution in low salinity water flooding in sandstone. Journal of Petroleum Science and Engineering, 2019, 176, 126-131.	2.1	25
49	Effect of electrical double layer and ion exchange on low salinity EOR in a pH controlled system. Journal of Petroleum Science and Engineering, 2019, 174, 418-424.	2.1	49
50	Experimental Evaluations of Polymeric Solubility and Thickeners for Supercritical CO <sub>2</sub> at High Temperatures for Enhanced Oil Recovery. Energy & Fuels, 2018, 32, 1600-1611.	2.5	36
51	Drivers of low salinity effect in sandstone reservoirs. Journal of Molecular Liquids, 2018, 250, 396-403.	2.3	38
52	Oil/water/rock wettability: Influencing factors and implications for low salinity water flooding in carbonate reservoirs. Fuel, 2018, 215, 171-177.	3.4	124
53	Drivers of pH increase and implications for low salinity effect in sandstone. Fuel, 2018, 218, 112-117.	3.4	32
54	Experimental evaluation of carbonated brine-limestone interactions under reservoir conditions-emphasis on the effect of core scale heterogeneities. International Journal of Greenhouse Gas Control, 2018, 68, 128-145.	2.3	23

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55	Electrostatic Origins of CO <sub>2</sub> -Increased Hydrophilicity in Carbonate Reservoirs. Scientific Reports, 2018, 8, 17691.	1.6	49
56	New Approach to Alternating Thickened“Unthickened Gas Flooding for Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2018, 57, 14637-14647.	1.8	7
57	Insight investigation of miscible SCCO <sub>2</sub> Water Alternating Gas (WAG) injection performance in heterogeneous sandstone reservoirs. Journal of CO <sub>2</sub> Utilization, 2018, 28, 255-263.	3.3	32
58	Investigation of moisture effect on methane adsorption capacity of shale samples. Fuel, 2018, 232, 323-332.	3.4	67
59	An Experimental Investigation of Immiscible CO <sub>2</sub> Flooding Efficiency in Sandstone Reservoirs: Influence of Permeability Heterogeneity. , 2018, , .		7
60	Influence of Permeability Heterogeneity on Miscible CO <sub>2</sub> Flooding Efficiency in Sandstone Reservoirs: An Experimental Investigation. Transport in Porous Media, 2018, 125, 341-356.	1.2	21
61	Drivers of Wettability Alteration for Oil/Brine/Kaolinite System: Implications for Hydraulic Fracturing Fluids Uptake in Shale Rocks. Energies, 2018, 11, 1666.	1.6	16
62	pH effect on wettability of oil/brine/carbonate system: Implications for low salinity water flooding. Journal of Petroleum Science and Engineering, 2018, 168, 419-425.	2.1	68
63	Numerical modelling of microwave heating treatment for tight gas sand reservoirs. Journal of Petroleum Science and Engineering, 2017, 152, 495-504.	2.1	27
64	Experimental investigation of changes in petrophysical properties during CO <sub>2</sub> injection into dolomite-rich rocks. International Journal of Greenhouse Gas Control, 2017, 59, 74-90.	2.3	41
65	Experimental Study of Miscible Thickened Natural Gas Injection for Enhanced Oil Recovery. Energy & Fuels, 2017, 31, 4951-4965.	2.5	24
66	Shale alteration after exposure to supercritical CO <sub>2</sub> . International Journal of Greenhouse Gas Control, 2017, 62, 91-99.	2.3	62
67	The low salinity effect at high temperatures. Fuel, 2017, 200, 419-426.	3.4	84
68	Fines migration during CO <sub>2</sub> injection: Experimental results interpreted using surface forces. International Journal of Greenhouse Gas Control, 2017, 65, 32-39.	2.3	52
69	Drivers of Low Salinity Effect in Carbonate Reservoirs. Energy & Fuels, 2017, 31, 8951-8958.	2.5	53
70	A pH-Resolved Wettability Alteration: Implications for CO <sub>2</sub> -Assisted EOR in Carbonate Reservoirs. Energy & Fuels, 2017, 31, 13593-13599.	2.5	36
71	An Experimental Study of CO <sub>2</sub> Saturated Brine Reaction with Berea Sandstone. , 2017, , .		5
72	An experimental study of combined foam/surfactant polymer (SP) flooding for carbone dioxide-enhanced oil recovery (CO <sub>2</sub> -EOR). Journal of Petroleum Science and Engineering, 2017, 149, 603-611.	2.1	59

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73	Evaluation and Optimization Study on a Hybrid EOR Technique Named as Chemical-Alternating-Foam Floods. Oil and Gas Science and Technology, 2017, 72, 1.	1.4	12
74	Evaluation of the Potential of Low Salinity Water Flooding in the High Temperature and High Salinity Dong-He-Tang Reservoir in the Tarim Oilfield, China: Experimental and Reservoir Simulation Results. , 2016, , .		4
75	Flood characteristic and fluid rock interactions of a supercritical CO <sub>2</sub> , brine, rock system: South West Hub, Western Australia. International Journal of Greenhouse Gas Control, 2016, 54, 309-321.	2.3	38
76	Bulk phase Behavior and displacement performance of CO <sub>2</sub> foam induced by a combined foaming formulation. Journal of Petroleum Science and Engineering, 2016, 147, 864-872.	2.1	16
77	Extended DLVO-based estimates of surface force in low salinity water flooding. Journal of Molecular Liquids, 2016, 221, 658-665.	2.3	114
78	Effect of multi-component ions exchange on low salinity EOR: Coupled geochemical simulation study. Petroleum, 2016, 2, 215-224.	1.3	47
79	Preliminary study of improving reservoir quality of tight gas sands in the near wellbore region by microwave heating. Journal of Natural Gas Science and Engineering, 2016, 32, 395-406.	2.1	38
80	Laboratory studies on CO <sub>2</sub> foam flooding enhanced by a novel amphiphilic ter-polymer. Journal of Petroleum Science and Engineering, 2016, 138, 153-159.	2.1	57
81	Evaporation Process and Pore Size Distribution in Tight Sandstones: A Study Using NMR and MICP. Procedia Earth and Planetary Science, 2015, 15, 767-773.	0.6	16
82	Effects of Permeability, Heterogeneity and Gravity on Supercritical CO <sub>2</sub> Displacing Gas Under Reservoir Conditions. , 2015, , .		1
83	Evaluation of Microwave Heating on Fluid Invasion and Phase Trapping in Tight Gas Reservoirs. , 2015, , .		6
84	The Interaction of Reservoir Properties and Microwave Heating â€œ An Experimental and Numerical Modelling Study of Enhanced Gas Recovery (EGR). Procedia Earth and Planetary Science, 2015, 15, 542-548.	0.6	9
85	N <sub>2</sub> +CO <sub>2</sub> +NaCl brine interfacial tensions and contact angles on quartz at CO <sub>2</sub> storage site conditions in the Gippsland basin, Victoria/Australia. Journal of Petroleum Science and Engineering, 2015, 129, 58-62.	2.1	60
86	An Experimental Study on the Flood Characteristic and Fluid Rock Interactions of a Supercritical CO <sub>2</sub> , Brine, Rock System. , 2015, , .		1
87	Evaluation of pore size spectrum of gas shale reservoirs using low pressure nitrogen adsorption, gas expansion and mercury porosimetry: A case study from the Perth and Canning Basins, Western Australia. Journal of Petroleum Science and Engineering, 2013, 112, 7-16.	2.1	384
88	Laboratory Investigation of Factors Affecting CO <sub>2</sub> Enhanced Oil and Gas Recovery. , 2013, , .		4
89	Tight gas sands permeability estimation from mercury injection capillary pressure and nuclear magnetic resonance data. Journal of Petroleum Science and Engineering, 2012, 88-89, 92-99.	2.1	295
90	Experimental study of the effect of variation in <i>in situ</i> stress on capillary residual trapping during CO <sub>2</sub> geo-sequestration in sandstone reservoirs. Geofluids, 2012, 12, 228-235.	0.3	12

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91	Effect of residual natural gas saturation on multiphase flow behaviour during CO <sub>2</sub> geo-sequestration in depleted natural gas reservoirs. Journal of Petroleum Science and Engineering, 2012, 82-83, 17-26.	2.1	25
92	Experimental Study of Multiphase Flow in Porous Media during CO <sub>2</sub> Geo-Sequestration Processes. , 2012, , .		15
93	Multiphase flow behaviour during CO <sub>2</sub> geo-sequestration: Emphasis on the effect of cyclic CO <sub>2</sub> brine flooding. Journal of Petroleum Science and Engineering, 2011, 79, 65-85.	2.1	55
94	Impacts of Limestone Vertical Permeability Heterogeneity on Fluid-Rock Interaction During CCS. Transport in Porous Media, 0, , 1.	1.2	2