

# Stefan Iglauer

## List of Publications by Year in descending order

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324  
papers

16,926  
citations

10986

71  
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22832

112  
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327  
all docs

327  
docs citations

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times ranked

6216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore structure and fluid distribution of tight sandstone by the combined use of SEM, MICP and X-ray micro-CT. Journal of Petroleum Science and Engineering, 2022, 208, 109241.	4.2	24
2	Optimum geological storage depths for structural H <sub>2</sub> geo-storage. Journal of Petroleum Science and Engineering, 2022, 212, 109498.	4.2	43
3	Influence of mineralogy and surfactant concentration on zeta potential in intact sandstone at high pressure. Journal of Colloid and Interface Science, 2022, 607, 401-411.	9.4	40
4	Zeta potential of CO <sub>2</sub> -rich aqueous solutions in contact with intact sandstone sample at temperatures of 23°C and 40°C and pressures up to 10.0 MPa. Journal of Colloid and Interface Science, 2022, 607, 1226-1238.	9.4	15
5	Hydrogen diffusion in coal: Implications for hydrogen geo-storage. Journal of Colloid and Interface Science, 2022, 608, 1457-1462.	9.4	68
6	Influence of organic molecules on wetting characteristics of mica/H <sub>2</sub> /brine systems: Implications for hydrogen structural trapping capacities. Journal of Colloid and Interface Science, 2022, 608, 1739-1749.	9.4	85
7	Alkyl glyceryl ethers as water-based lubricant additives in mixtures with xanthan gum. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127881.	4.7	11
8	Predictive surface complexation model of the calcite-aqueous solution interface: The impact of high concentration and complex composition of brines. Journal of Colloid and Interface Science, 2022, 609, 852-867.	9.4	13
9	Multi-scale reconstruction of porous media from low-resolution core images using conditional generative adversarial networks. Journal of Natural Gas Science and Engineering, 2022, 99, 104411.	4.4	20
10	Coal cleat network evolution through liquid nitrogen freeze-thaw cycling. Fuel, 2022, 314, 123069.	6.4	24
11	Wettability Alteration during Low-Salinity Water Flooding. Energy & Fuels, 2022, 36, 871-879.	5.1	18
12	Live imaging of micro and macro wettability variations of carbonate oil reservoirs for enhanced oil recovery and CO <sub>2</sub> trapping/storage. Scientific Reports, 2022, 12, 1262.	3.3	18
13	Exact Analytical Solutions of Countercurrent Imbibition with Both Capillary and Gravity Effects. Energy & Fuels, 2022, 36, 1457-1469.	5.1	7
14	Coal fines migration: A holistic review of influencing factors. Advances in Colloid and Interface Science, 2022, 301, 102595.	14.7	22
15	Hydrogen wettability of carbonate formations: Implications for hydrogen geo-storage. Journal of Colloid and Interface Science, 2022, 614, 256-266.	9.4	91
16	Wettability of Shale/Oil/Brine Systems: A New Physicochemical and Imaging Approach. , 2022, , .		5
17	Experimental and numerical investigation on the dynamic damage behavior of gas-bearing coal. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	2.9	6
18	H <sub>2</sub> -brine interfacial tension as a function of salinity, temperature, and pressure; implications for hydrogen geo-storage. Journal of Petroleum Science and Engineering, 2022, 213, 110441.	4.2	77

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19	Multiscale and multiphysics influences on fluids in unconventional reservoirs: Modeling and simulation. <i>Advances in Geo-Energy Research</i> , 2022, 6, 91-94.	6.0	26
20	Hydrogen Flooding of a Coal Core: Effect on Coal Swelling. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	35
21	Capillary Sealing Efficiency Analysis of Caprocks: Implication for Hydrogen Geological Storage. <i>Energy &amp; Fuels</i> , 2022, 36, 4065-4075.	5.1	64
22	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.	7.1	81
23	Mini Review on Wettability in the Methane-Liquid-Rock System at Reservoir Conditions: Implications for Gas Recovery and Geo-Storage. <i>Energy &amp; Fuels</i> , 2022, 36, 4268-4275.	5.1	12
24	Date-Leaf Carbon Particles for Green Enhanced Oil Recovery. <i>Nanomaterials</i> , 2022, 12, 1245.	4.1	14
25	Experimental investigation and simulation for hybrid of nanocomposite and surfactant as EOR process in carbonate oil reservoirs. <i>Fuel</i> , 2022, 319, 123591.	6.4	10
26	A systematic review of Anhydrite-Bearing Reservoirs: EOR Perspective, CO <sub>2</sub> -Geo-storage and future research. <i>Fuel</i> , 2022, 320, 123942.	6.4	27
27	Hydrogen storage potential of coals as a function of pressure, temperature, and rank. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 86-93.	9.4	47
28	Impact of prolonged water-gas flow on the performance of polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	3
29	Contact Angles of a Brine on a Bituminous Coal in Compressed Hydrogen. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	20
30	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.	7.1	17
31	Biodiesel production from tucumã (Astrocaryum aculeatum Meyer) almond oil applying the electrolytic paste of spent batteries as a catalyst. <i>Renewable Energy</i> , 2022, 191, 919-931.	8.9	4
32	The rock mechanical properties of lacustrine shales: Argillaceous shales versus silty laminae shales. <i>Marine and Petroleum Geology</i> , 2022, 141, 105707.	3.3	12
33	Basalt-H <sub>2</sub> -brine wettability at geo-storage conditions: Implication for hydrogen storage in basaltic formations. <i>Journal of Energy Storage</i> , 2022, 52, 104745.	8.1	40
34	Experimental evaluation of rock mineralogy on hydrogen-wettability: Implications for hydrogen geo-storage. <i>Journal of Energy Storage</i> , 2022, 52, 104866.	8.1	47
35	Experimental study of electrical heating to enhance oil production from oil-wet carbonate reservoirs. <i>Fuel</i> , 2022, 324, 124559.	6.4	14
36	Fluid-rock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. <i>Energy Reports</i> , 2022, 8, 6355-6395.	5.1	30

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37	Laboratorial and analytical study for prediction of porosity changes in carbonaceous shale coupling reactive flow and dissolution. <i>Journal of Petroleum Science and Engineering</i> , 2022, 215, 110670.	4.2	4
38	Hydrogen storage in Majiagou carbonate reservoir in China: Geochemical modelling on carbonate dissolution and hydrogen loss. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 24861-24870.	7.1	39
39	Promising material for large-scale H <sub>2</sub> storage and efficient H <sub>2</sub> -CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2022, 298, 121542.	7.9	7
40	Effect of Inorganic Acid Concentration on Sandstone Surface Chemistry Examined via Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10863-10871.	3.1	1
41	Hydrogen wettability in carbonate reservoirs: Implication for underground hydrogen storage from geochemical perspective. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25357-25366.	7.1	34
42	Evaluation the role of natural surfactants from Tanacetum and Tarragon plants in EOR applications. <i>Journal of Molecular Liquids</i> , 2022, 361, 119576.	4.9	14
43	Synergistic Efficiency of Zinc Oxide/Montmorillonite Nanocomposites and a New Derived Saponin in Liquid/Liquid/Solid Interface-Included Systems: Application in Nanotechnology-Assisted Enhanced Oil Recovery. <i>ACS Omega</i> , 2022, 7, 24951-24972.	3.5	15
44	Hydrogen Wettability of Sandstone Reservoirs: Implications for Hydrogen Geo-storage. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090814.	4.0	110
45	Interaction of low salinity surfactant nanofluids with carbonate surfaces and molecular level dynamics at fluid-fluid interface at ScCO <sub>2</sub> loading. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 315-325.	9.4	27
46	Sample preparation for rock wettability studies via atomic force microscopy. <i>APPEA Journal</i> , 2021, 61, 216.	0.2	1
47	X-ray tomography imaging of shale microstructures: A review in the context of multiscale correlative imaging. <i>International Journal of Coal Geology</i> , 2021, 233, 103641.	5.0	69
48	Shale Wettability: Data Sets, Challenges, and Outlook. <i>Energy &amp; Fuels</i> , 2021, 35, 2965-2980.	5.1	76
49	Paleo-Temperature and -Pressure Characteristics of Fluid Inclusions in Composite Veins of the Doushantuo Shale (Yichang Area, South China): Implications for the Preservation and Enrichment of Shale Gas. <i>Energy &amp; Fuels</i> , 2021, 35, 4091-4105.	5.1	5
50	Synergistic Effect of Nanoparticles and Polymers on the Rheological Properties of Injection Fluids: Implications for Enhanced Oil Recovery. <i>Energy &amp; Fuels</i> , 2021, 35, 6125-6135.	5.1	51
51	Effect of humic acid on CO <sub>2</sub> -wettability in sandstone formation. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 315-325.	9.4	63
52	Adsorption of nanoparticles on glass bead surface for enhancing proppant performance: A systematic experimental study. <i>Journal of Molecular Liquids</i> , 2021, 328, 115398.	4.9	43
53	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.	7.2	64
54	Investigating the mechanism of microbologically influenced corrosion of carbon steel using X-ray micro-computed tomography. <i>Journal of Materials Science</i> , 2021, 56, 13337-13371.	3.7	6

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55	Hydrogen Adsorption on Sub-bituminous Coal: Implications for Hydrogen Geo-storage. Geophysical Research Letters, 2021, 48, e2021GL092976.	4.0	48
56	Geochemical study of the early cretaceous Fahliyan oil reservoir in the northwest Persian Gulf. Journal of Petroleum Exploration and Production, 2021, 11, 2435-2447.	2.4	6
57	Simulating Coal Permeability Change as a Function of Effective Stress Using a Microscale Digital Rock Model. Energy & Fuels, 2021, 35, 8756-8762.	5.1	14
58	Underground hydrogen storage: Influencing parameters and future outlook. Advances in Colloid and Interface Science, 2021, 294, 102473.	14.7	167
59	Influence of Rock Wettability on THF Hydrate Saturation and Distribution in Sandstones. Journal of Physical Chemistry C, 2021, 125, 17323-17332.	3.1	15
60	Improving basalt wettability to de-risk CO <sub>2</sub> geo-storage in basaltic formations. Advances in Geo-Energy Research, 2021, 5, 347-350.	6.0	14
61	Rock-fluid interfacial tension at subsurface conditions: Implications for H <sub>2</sub> , CO <sub>2</sub> and natural gas geo-storage. International Journal of Hydrogen Energy, 2021, 46, 25578-25585.	7.1	84
62	A novel CaO-based catalyst obtained from silver croaker ( <i>Plagioscion squamosissimus</i> ) stone for biodiesel synthesis: Waste valorization and process optimization. Renewable Energy, 2021, 172, 1035-1045.	8.9	17
63	Impact of a novel biosynthesized nanocomposite (SiO <sub>2</sub> @Montmorilant@Xanthan) on wettability shift and interfacial tension: Applications for enhanced oil recovery. Fuel, 2021, 298, 120773.	6.4	64
64	Molecular dynamics study of the effect of sodium and chloride ions on water-surfactant-hydrocarbon interfaces. Chemical Physics, 2021, 548, 111243.	1.9	6
65	A novel approach to determine the Biot's coefficient using X-ray computed tomography. Bulletin of Engineering Geology and the Environment, 2021, 80, 7865-7877.	3.5	3
66	Dependence of clay wettability on gas density. , 2021, 11, 1066-1075.		4
67	Current advances in syngas (CO + H <sub>2</sub> ) production through bi-reforming of methane using various catalysts: A review. International Journal of Hydrogen Energy, 2021, 46, 32809-32845.	7.1	85
68	Effect of CO <sub>2</sub> Flooding on the Wettability Evolution of Sand-Stone. Energies, 2021, 14, 5542.	3.1	12
69	Drastic enhancement of CO <sub>2</sub> adsorption capacity by negatively charged sub-bituminous coal. Energy, 2021, 233, 120924.	8.8	16
70	Neutron scattering: A subsurface application review. Earth-Science Reviews, 2021, 221, 103755.	9.1	26
71	CO <sub>2</sub> "brine" sandstone wettability evaluation at reservoir conditions via Nuclear Magnetic Resonance measurements. International Journal of Greenhouse Gas Control, 2021, 111, 103435.	4.6	23
72	Hydrogen wettability of clays: Implications for underground hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 34356-34361.	7.1	67

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73	Influence of pressure, temperature and organic surface concentration on hydrogen wettability of caprock; implications for hydrogen geo-storage. <i>Energy Reports</i> , 2021, 7, 5988-5996.	5.1	111
74	Liquid nitrogen fracturing efficiency as a function of coal rank: A multi-scale tomographic study. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104177.	4.4	52
75	Hydrogen wettability of quartz substrates exposed to organic acids; Implications for hydrogen geo-storage in sandstone reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109081.	4.2	91
76	Influence of cryogenic liquid nitrogen cooling and thermal shocks on petro-physical and morphological characteristics of Eagle Ford shale. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104313.	4.4	24
77	Analytical Exact Solution for Co-Current Spontaneous Imbibition in Porous Media Considering Early- and Late-Time Effects. <i>Energy &amp; Fuels</i> , 2021, 35, 17499-17511.	5.1	7
78	Leakage risk assessment of a CO <sub>2</sub> storage site: A review. <i>Earth-Science Reviews</i> , 2021, 223, 103849.	9.1	87
79	Supercritical High-Pressure Methane Adsorption on the Lower Cambrian Shuijingtuo Shale in the Huangling Anticline Area, South China: Adsorption Behavior, Storage Characteristics, and Geological Implications. <i>Energy &amp; Fuels</i> , 2021, 35, 19973-19985.	5.1	5
80	Micro-proppant placement in hydraulic and natural fracture stimulation in unconventional reservoirs: A review. <i>Energy Reports</i> , 2021, 7, 8997-9022.	5.1	32
81	Physicochemical Characterization of Zirconia Nanoparticle-Based Sodium Alginate Polymer Suspension for Enhanced Oil Recovery. <i>Energy &amp; Fuels</i> , 2021, 35, 19389-19398.	5.1	24
82	Hydrogen underground storage efficiency in a heterogeneous sandstone reservoir. <i>Advances in Geo-Energy Research</i> , 2021, 5, 437-443.	6.0	45
83	Effect of Rock Wettability on the Electric Resistivity of Hydrate Formations: An Experimental Investigation. <i>Energy &amp; Fuels</i> , 2021, 35, 20037-20045.	5.1	11
84	Shale adhesion force measurements via atomic force microscopy. <i>Oil and Gas Science and Technology</i> , 2021, 76, 73.	1.4	1
85	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.	9.4	108
86	Nano-mechanical Properties and Pore-Scale Characterization of Different Rank Coals. <i>Natural Resources Research</i> , 2020, 29, 1787-1800.	4.7	17
87	Formation water geochemistry for carbonate reservoirs in Ordos basin, China: Implications for hydrocarbon preservation by machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106673.	4.2	18
88	Removal of rhodamine 6G from synthetic effluents using <i>Clitoria fairchildiana</i> pods as low-cost biosorbent. <i>Environmental Science and Pollution Research</i> , 2020, 27, 2868-2880.	5.3	13
89	Experimental investigation of carbonate wettability as a function of mineralogical and thermo-physical conditions. <i>Fuel</i> , 2020, 264, 116846.	6.4	49
90	Capillary pressure characteristics of CO <sub>2</sub> -brine-sandstone systems. <i>International Journal of Greenhouse Gas Control</i> , 2020, 94, 102876.	4.6	33

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91	Porosity characteristics of different lithofacies in marine shale: A case study of Neoproterozoic Sinian Doushantuo formation in Yichang area, China. <i>Journal of Petroleum Science and Engineering</i> , 2020, 187, 106856.	4.2	17
92	The interfacial properties of clay-coated quartz at reservoir conditions. <i>Fuel</i> , 2020, 262, 116461.	6.4	39
93	Influence of Cryogenic Liquid Nitrogen on Petro-Physical Characteristics of Mancos Shale: An Experimental Investigation. <i>Energy &amp; Fuels</i> , 2020, 34, 2160-2168.	5.1	69
94	Pore-scale analysis of coal cleat network evolution through liquid nitrogen treatment: A Micro-Computed Tomography investigation. <i>International Journal of Coal Geology</i> , 2020, 219, 103370.	5.0	99
95	Pore scale investigation of low salinity surfactant nanofluid injection into oil saturated sandstone via X-ray micro-tomography. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 370-380.	9.4	78
96	Molecular insights in the temperature effect on adsorption of cationic surfactants at liquid/liquid interfaces. <i>Journal of Molecular Liquids</i> , 2020, 299, 112104.	4.9	29
97	Effect of Nanoparticles on Viscosity and Interfacial Tension of Aqueous Surfactant Solutions at High Salinity and High Temperature. <i>Journal of Surfactants and Detergents</i> , 2020, 23, 327-338.	2.1	35
98	Influence of tailor-made TiO <sub>2</sub> /API bentonite nanocomposite on drilling mud performance: Towards enhanced drilling operations. <i>Applied Clay Science</i> , 2020, 199, 105862.	5.2	76
99	A review on clay wettability: From experimental investigations to molecular dynamics simulations. <i>Advances in Colloid and Interface Science</i> , 2020, 285, 102266.	14.7	79
100	Carbonate rock mechanical response to CO <sub>2</sub> flooding evaluated by a combined X-ray computed tomography “DEM” method. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103675.	4.4	21
101	Basalt-CO <sub>2</sub> -brine wettability at storage conditions in basaltic formations. <i>International Journal of Greenhouse Gas Control</i> , 2020, 102, 103148.	4.6	23
102	Direct observation of two-phase flow in deformable fractures of shales: A Utica shale example. <i>Journal of Petroleum Science and Engineering</i> , 2020, 194, 107487.	4.2	7
103	Environmental Friendliness and High Performance of Multifunctional Tween 80/ZnO-Nanoparticles-Added Water-Based Drilling Fluid: An Experimental Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11224-11243.	6.7	87
104	Impact of anionic surfactant on stability, viscoelastic moduli, and oil recovery of silica nanofluid in saline environment. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107634.	4.2	64
105	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.	5.1	19
106	Nanomaterial-Based Drilling Fluids for Exploitation of Unconventional Reservoirs: A Review. <i>Energies</i> , 2020, 13, 3417.	3.1	69
107	Influence of Organic Acid Concentration on Wettability Alteration of Cap-Rock: Implications for CO <sub>2</sub> Trapping/Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39850-39858.	8.0	88
108	Application of water treatment sludge as a low-cost and eco-friendly catalyst in the biodiesel production via fatty acids esterification: Process optimization. <i>Energy</i> , 2020, 213, 118824.	8.8	24



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109	Effect of Cryogenic Liquid Nitrogen on the Morphological and Petrophysical Characteristics of Tight Gas Sandstone Rocks from Kirthar Fold Belt, Indus Basin, Pakistan. <i>Energy &amp; Fuels</i> , 2020, 34, 14548-14559.	5.1	43
110	Representative Elementary Volume of Rock Using X-Ray Microcomputed Tomography: A New Statistical Approach. <i>Geofluids</i> , 2020, 2020, 1-13.	0.7	7
111	A Multiscale Investigation of Cross-Linked Polymer Gel Injection in Sandstone Gas Reservoirs: Implications for Water Shutoff Treatment. <i>Energy &amp; Fuels</i> , 2020, 34, 14046-14057.	5.1	17
112	In Situ Wettability Investigation of Aging of Sandstone Surface in Alkane via X-ray Microtomography. <i>Energies</i> , 2020, 13, 5594.	3.1	6
113	Effect of Clay Minerals Heterogeneity on Wettability Measurements: Implications for CO <sub>2</sub> Storage. , 2020, , .		5
114	Influence of Total Organic Content on CO <sub>2</sub> "Water" Sandstone Wettability and CO <sub>2</sub> Geo-Storage Capacity. , 2020, , .		1
115	Morphological and petro physical estimation of Eocene tight carbonate formation cracking by cryogenic liquid nitrogen; a case study of Lower Indus basin, Pakistan. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107318.	4.2	49
116	Reservoir and lithofacies shale classification based on NMR logging. <i>Petroleum Research</i> , 2020, 5, 202-209.	2.7	7
117	Stable Dispersion of Coal Fines during Hydraulic Fracturing Flowback in Coal Seam Gas Reservoirs "An Experimental Study. <i>Energy &amp; Fuels</i> , 2020, 34, 5566-5577.	5.1	64
118	Dynamic Pore Scale Dissolution by CO <sub>2</sub> Saturated Brine in Carbonates: Impact of Homogeneous Versus Fractured Versus Vuggy Pore Structure. <i>Water Resources Research</i> , 2020, 56, e2019WR026112.	4.2	114
119	A novel approach for using silica nanoparticles in a proppant pack to fixate coal fines. <i>APPEA Journal</i> , 2020, 60, 88.	0.2	24
120	Stress Sensitivity of Fractured and Vuggy Carbonate: An X-Ray Computed Tomography Analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018759.	3.4	78
121	Geochemical controls on wettability alteration at pore-scale during low salinity water flooding in sandstone using X-ray micro computed tomography. <i>Fuel</i> , 2020, 271, 117675.	6.4	36
122	Pineapple ( <i>Ananas comosus</i> ) leaves ash as a solid base catalyst for biodiesel synthesis. <i>Bioresource Technology</i> , 2020, 312, 123569.	9.6	63
123	Carbon dioxide wettability of South West Hub sandstone, Western Australia: Implications for carbon geo-storage. <i>International Journal of Greenhouse Gas Control</i> , 2020, 98, 103064.	4.6	26
124	Effect of total organic carbon (TOC) content on shale wettability at high pressure and high temperature conditions. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107374.	4.2	58
125	Wettability measurements on two sandstones: an experimental investigation before and after CO <sub>2</sub> flooding. <i>APPEA Journal</i> , 2020, 60, 117.	0.2	3
126	Coal fracturing through liquid nitrogen treatment: a micro-computed tomography study. <i>APPEA Journal</i> , 2020, 60, 67.	0.2	25



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127	Effect of Nanoparticles on the Interfacial Tension of CO <sub>2</sub> -Oil System at High Pressure and Temperature: An Experimental Approach. , 2020, , .		12
128	Evaluation of MEG reclamation and natural gas hydrate inhibition during corrosion control switchover. Journal of Petroleum Science and Engineering, 2019, 176, 1175-1186.	4.2	9
129	Residual Trapping of CO <sub>2</sub> in an Oil-Filled, Oil-Wet Sandstone Core: Results of Three-Phase Pore-Scale Imaging. Geophysical Research Letters, 2019, 46, 11146-11154.	4.0	53
130	Effect of Pretreatment Process on Scale Formation in the Re-Boiler Section of Monoethylene Glycol Regeneration Plant. IOP Conference Series: Materials Science and Engineering, 2019, 495, 012106.	0.6	2
131	Analysis of individual molecular dynamics snapshots simulating wetting of surfaces using spheroidal geometric constructions. Journal of Chemical Physics, 2019, 151, .	3.0	4
132	Economic and productivity evaluation of different horizontal drilling scenarios: Middle East oil fields as case study. Journal of Petroleum Exploration and Production, 2019, 9, 2449-2460.	2.4	12
133	Thermodynamic Modeling of Hydrate Phase Equilibria in Methyl-diethanolamine Solution in the Presence or Absence of Monoethylene Glycol. Journal of Chemical & Engineering Data, 2019, 64, 4148-4153.	1.9	5
134	Roles of organic and inorganic additives on the surface quality, morphology, and polarization behavior during nickel electrodeposition from various baths: a review. Journal of Applied Electrochemistry, 2019, 49, 847-870.	2.9	34
135	X-ray micro-computed tomography and ultrasonic velocity analysis of fractured shale as a function of effective stress. Marine and Petroleum Geology, 2019, 110, 472-482.	3.3	23
136	Wettability Alteration of Quartz Surface by Low-Salinity Surfactant Nanofluids at High-Pressure and High-Temperature Conditions. Energy & Fuels, 2019, 33, 7062-7068.	5.1	89
137	CO <sub>2</sub> -Saturated Brine Injection Into Unconsolidated Sandstone: Implications for Carbon Geosequestration. Journal of Geophysical Research: Solid Earth, 2019, 124, 10823-10838.	3.4	10
138	Fracture analysis and in situ stress estimation of a gas condensate field in Persian Gulf using FMI and DSI image logs. SN Applied Sciences, 2019, 1, 1.	2.9	8
139	Performance of erythorbic acid as an oxygen scavenger in salted fresh and degraded monoethylene glycol under a magnetic memory effect. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2364.	1.5	1
140	Petrographic, palynologic and geochemical characteristics of source rocks of the Permian Lucaogou formation in Jimsar Sag, Junggar Basin, NW China: Origin of organic matter input and depositional environments. Journal of Petroleum Science and Engineering, 2019, 183, 106364.	4.2	38
141	Wettability Measurements of Mixed Clay Minerals at Elevated Temperature and Pressure: Implications for CO <sub>2</sub> Geo-Storage. , 2019, , .		10
142	Formation damage evaluation of a sandstone reservoir via pore-scale X-ray computed tomography analysis. Journal of Petroleum Science and Engineering, 2019, 183, 106356.	4.2	55
143	Methane (CH <sub>4</sub> ) Wettability of Clay-Coated Quartz at Reservoir Conditions. Energy & Fuels, 2019, 33, 788-795.	5.1	64
144	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T <sub>2</sub> ) in sandstone rocks. Journal of Petroleum Science and Engineering, 2019, 175, 985-997.	4.2	49

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145	Effect of the number of water alternating CO <sub>2</sub> injection cycles on CO <sub>2</sub> trapping capacity. APPEA Journal, 2019, 59, 357.	0.2	12
146	A Multiscale Study on Shale Wettability: Spontaneous Imbibition Versus Contact Angle. Water Resources Research, 2019, 55, 5012-5032.	4.2	65
147	X-ray micro-computed tomography analysis of accumulated corrosion products in deep-water shipwrecks. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1977-1998.	1.5	6
148	Evaluating chemical-scale-inhibitor performance in external magnetic fields using a dynamic scale loop. Journal of Petroleum Science and Engineering, 2019, 179, 1063-1077.	4.2	13
149	Effect of wettability on particle settlement behavior within Mono-Ethylene Glycol regeneration pre-treatment systems. Journal of Petroleum Science and Engineering, 2019, 179, 831-840.	4.2	10
150	Wettability of Fully Hydroxylated and Alkylated (001) $\hat{\pm}$ -Quartz Surface in Carbon Dioxide Atmosphere. Journal of Physical Chemistry C, 2019, 123, 9027-9040.	3.1	69
151	An experimental study on the flow characteristics during the leakage of high pressure CO <sub>2</sub> pipelines. Chemical Engineering Research and Design, 2019, 125, 92-101.	5.6	30
152	Application of the CLAYFF and the DREIDING Force Fields for Modeling of Alkylated Quartz Surfaces. Langmuir, 2019, 35, 5746-5752.	3.5	15
153	Wettability of rock/CO <sub>2</sub> /brine and rock/oil/CO <sub>2</sub> -enriched-brine systems: Critical parametric analysis and future outlook. Advances in Colloid and Interface Science, 2019, 268, 91-113.	14.7	138
154	CO <sub>2</sub> -wettability of sandstones exposed to traces of organic acids: Implications for CO <sub>2</sub> geo-storage. International Journal of Greenhouse Gas Control, 2019, 83, 61-68.	4.6	88
155	Optimizing the Dispersion of Coal Fines Using Sodium Dodecyl Benzene Sulfonate. , 2019, , .		6
156	Organic acid concentration thresholds for ageing of carbonate minerals: Implications for CO <sub>2</sub> trapping/storage. Journal of Colloid and Interface Science, 2019, 534, 88-94.	9.4	91
157	In-situ X-ray micro-computed tomography imaging of the microstructural changes in water-bearing medium rank coal by supercritical CO <sub>2</sub> flooding. International Journal of Coal Geology, 2019, 203, 28-35.	5.0	43
158	Low-Salinity Surfactant Nanofluid Formulations for Wettability Alteration of Sandstone: Role of the SiO <sub>2</sub> Nanoparticle Concentration and Divalent Cation/SO <sub>4</sub> <sup>2-</sup> Ratio. Energy & Fuels, 2019, 33, 739-746.	5.1	50
159	Degradation and hydrate phase equilibria measurement methods of monoethylene glycol. MethodsX, 2019, 6, 6-14.	1.6	4
160	The influence of magnetic fields on calcium carbonate scale formation within monoethylene glycol solutions at regeneration conditions. Journal of Petroleum Science and Engineering, 2019, 173, 158-169.	4.2	21
161	Carbon Dioxide/Brine, Nitrogen/Brine, and Oil/Brine Wettability of Montmorillonite, Illite, and Kaolinite at Elevated Pressure and Temperature. Energy & Fuels, 2019, 33, 441-448.	5.1	61
162	Role of fluid density on quartz wettability. Journal of Petroleum Science and Engineering, 2019, 172, 511-516.	4.2	46

#	ARTICLE	IF	CITATIONS
163	Local instabilities during capillary-dominated immiscible displacement in porous media. <i>Capillarity</i> , 2019, 2, 1-7.	2.2	24
164	Measurement of mono ethylene glycol volume fraction at varying ionic strengths and temperatures. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 54, 320-327.	4.4	10
165	Effect of Dissolved Oxygen, Sodium Bisulfite, and Oxygen Scavengers on Methane Hydrate Inhibition. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 1821-1826.	1.9	11
166	Carbon dioxide/brine wettability of porous sandstone versus solid quartz: An experimental and theoretical investigation. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 188-194.	9.4	49
167	Impact of Injection Scenario on CO <sub>2</sub> Leakage and CO <sub>2</sub> Trapping Capacity in Homogeneous Reservoirs. , 2018, , .		16
168	Morphological evaluation of heterogeneous oolitic limestone under pressure and fluid flow using X-ray microtomography. <i>Journal of Applied Geophysics</i> , 2018, 150, 172-181.	2.1	21
169	Characterization of nanoscale rockmechanical properties and microstructures of a Chinese sub-bituminous coal. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 106-116.	4.4	42
170	Nanoscale rock mechanical property changes in heterogeneous coal after water adsorption. <i>Fuel</i> , 2018, 218, 23-32.	6.4	85
171	High pressure-elevated temperature x-ray micro-computed tomography for subsurface applications. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 393-410.	14.7	52
172	Effect of Monovalent and Divalent Salts on the Interfacial Tension of <i>n</i> -Heptane against Aqueous Anionic Surfactant Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 2341-2350.	1.9	31
173	Experimental Vapor-Liquid Equilibrium Data for Binary Mixtures of Methyl-diethanolamine in Water and Ethylene Glycol under Vacuum. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 1752-1760.	1.9	12
174	Prediction of Hydrate Phase Equilibrium Conditions for Different Gas Mixtures. , 2018, , .		1
175	Wettability of nanofluid-modified oil-wet calcite at reservoir conditions. <i>Fuel</i> , 2018, 211, 405-414.	6.4	116
176	Impact of salinity on CO <sub>2</sub> containment security in highly heterogeneous reservoirs. , 2018, 8, 93-105.		53
177	Influence of magnetic fields on calcium carbonate scaling in aqueous solutions at 150 °C and 1 bar. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 472-484.	9.4	32
178	Microstructural Effects on Mechanical Properties of Shaly Sandstone. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	43
179	Effect of wettability heterogeneity and reservoir temperature on CO <sub>2</sub> storage efficiency in deep saline aquifers. <i>International Journal of Greenhouse Gas Control</i> , 2018, 68, 216-229.	4.6	89
180	CO <sub>2</sub> and CH <sub>4</sub> Wettabilities of Organic-Rich Shale. <i>Energy &amp; Fuels</i> , 2018, 32, 1914-1922.	5.1	108

#	ARTICLE	IF	CITATIONS
181	Pore type and pore size distribution of tight reservoirs in the Permian Lucaogou Formation of the Jimsar Sag, Junggar Basin, NW China. <i>Marine and Petroleum Geology</i> , 2018, 89, 761-774.	3.3	65
182	Nanoscale geomechanical properties of Western Australian coal. <i>Journal of Petroleum Science and Engineering</i> , 2018, 162, 736-746.	4.2	40
183	Compressional wave velocity of hydrate-bearing bentheimer sediments with varying pore fillings. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23193-23200.	7.1	36
184	Impact of injected water salinity on CO <sub>2</sub> storage efficiency in homogenous reservoirs. <i>APPEA Journal</i> , 2018, 58, 44.	0.2	20
185	The effect of WACO <sub>2</sub> ratio on CO <sub>2</sub> geo-sequestration efficiency in homogeneous reservoirs. <i>Energy Procedia</i> , 2018, 154, 100-105.	1.8	21
186	CO <sub>2</sub> saturated brine injected into fractured shale: An X-ray micro-tomography in-situ analysis at reservoir conditions. <i>Energy Procedia</i> , 2018, 154, 125-130.	1.8	3
187	Experimental Study of Supercritical CO <sub>2</sub> Injected into Water Saturated Medium Rank Coal by X-ray MicroCT. <i>Energy Procedia</i> , 2018, 154, 131-138.	1.8	5
188	Influence of Pressure and Temperature on CO <sub>2</sub> -Nanofluid Interfacial Tension: Implication for Enhanced Oil Recovery and Carbon Geosequestration. , 2018, , .		28
189	Reactive Flow in Unconsolidated Sandstone: Application to Carbon Geosequestration. , 2018, , .		1
190	Low Salinity Surfactant Nanofluids For Enhanced CO <sub>2</sub> Storage Application At High Pressure And Temperature. , 2018, , .		16
191	Pore Scale Analysis the Formation Dissolution with Capillary Trapping Change for CO <sub>2</sub> Injected into Carbonate Reservoir. , 2018, , .		1
192	Experimental pore-scale analysis of carbon dioxide hydrate in sandstone via X-Ray micro-computed tomography. <i>International Journal of Greenhouse Gas Control</i> , 2018, 79, 73-82.	4.6	47
193	A new model for predicting the decompression behavior of CO <sub>2</sub> mixtures in various phases. <i>Chemical Engineering Research and Design</i> , 2018, 120, 237-247.	5.6	18
194	The Elastic Moduli Change After Carbon Dioxide Flooding Into Limestone: An Experimental Study. , 2018, , .		0
195	Nanofluids as Novel Alternative Smart Fluids for Reservoir Wettability Alteration. , 2018, , .		5
196	The effect of regenerated MEG on hydrate inhibition performance over multiple regeneration cycles. <i>Fuel</i> , 2018, 222, 638-647.	6.4	26
197	Operation of a MEG pilot regeneration system for organic acid and alkalinity removal during MDEA to FFCI switchover. <i>Journal of Petroleum Science and Engineering</i> , 2018, 169, 1-14.	4.2	11
198	Acid Dissociation Constant ( $K_a$ ) of Common Monoethylene Glycol (MEG) Regeneration Organic Acids and Methyl-diethanolamine at Varying MEG Concentration, Temperature, and Ionic Strength. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 2904-2913.	1.9	11

#	ARTICLE	IF	CITATIONS
199	A Realistic Look at Nanostructured Material as an Innovative Approach for Enhanced Oil Recovery Process Upgrading. , 2018, , .		5
200	Impact of nanoparticles on the CO <sub>2</sub> -brine interfacial tension at high pressure and temperature. Journal of Colloid and Interface Science, 2018, 532, 136-142.	9.4	61
201	Performance of erythorbic acid as an oxygen scavenger in thermally aged lean MEG. Journal of Petroleum Science and Engineering, 2018, 170, 911-921.	4.2	12
202	Enhancement of CO <sub>2</sub> trapping efficiency in heterogeneous reservoirs by water-alternating gas injection. , 2018, 8, 920-931.		32
203	Hydrate Phase Equilibria for Methyl-diethanolamine and Empirical Modeling for Prediction. Journal of Chemical & Engineering Data, 2018, 63, 3559-3565.	1.9	10
204	Optimum storage depths for structural CO <sub>2</sub> trapping. International Journal of Greenhouse Gas Control, 2018, 77, 82-87.	4.6	68
205	Laboratory measurement of Biot's coefficient and pore pressure influence on poroelastic rock behaviour. APPEA Journal, 2018, 58, 182.	0.2	12
206	Numerical investigation of dynamic and static properties of reservoir rocks. APPEA Journal, 2018, 58, 769.	0.2	0
207	Influence of surface chemistry on interfacial properties of low to high rank coal seams. Fuel, 2017, 194, 211-221.	6.4	63
208	Impact of reservoir wettability and heterogeneity on CO <sub>2</sub> -plume migration and trapping capacity. International Journal of Greenhouse Gas Control, 2017, 58, 142-158.	4.6	163
209	Electrochemical investigation of the effect of temperature, salinity and salt type on brine/mineral interfacial properties. International Journal of Greenhouse Gas Control, 2017, 59, 136-147.	4.6	48
210	Simulation of NMR response from micro-CT images using artificial neural networks. Journal of Natural Gas Science and Engineering, 2017, 39, 54-61.	4.4	7
211	CO <sub>2</sub> -Water-Rock Wettability: Variability, Influencing Factors, and Implications for CO <sub>2</sub> Geostorage. Accounts of Chemical Research, 2017, 50, 1134-1142.	15.6	248
212	Micro-scale fracturing mechanisms in coal induced by adsorption of supercritical CO <sub>2</sub> . International Journal of Coal Geology, 2017, 175, 40-50.	5.0	76
213	Effect of CT image size and resolution on the accuracy of rock property estimates. Journal of Geophysical Research: Solid Earth, 2017, 122, 3635-3647.	3.4	65
214	Shale alteration after exposure to supercritical CO <sub>2</sub> . International Journal of Greenhouse Gas Control, 2017, 62, 91-99.	4.6	62
215	CO <sub>2</sub> storage in carbonates: Wettability of calcite. International Journal of Greenhouse Gas Control, 2017, 62, 113-121.	4.6	108
216	Effect of the Temperature on CO <sub>2</sub> /Brine/Dolomite Wettability: Hydrophilic versus Hydrophobic Surfaces. Energy & Fuels, 2017, 31, 6329-6333.	5.1	52

#	ARTICLE	IF	CITATIONS
217	Wettability alteration of oil-wet limestone using surfactant-nanoparticle formulation. Journal of Colloid and Interface Science, 2017, 504, 334-345.	9.4	106
218	CO <sub>2</sub> geo-storage capacity enhancement via nanofluid priming. International Journal of Greenhouse Gas Control, 2017, 63, 20-25.	4.6	39
219	Effects of Thermally Degraded Monoethylene Glycol with Methyl Diethanolamine and Film-Forming Corrosion Inhibitor on Gas Hydrate Kinetics. Energy & Fuels, 2017, 31, 6397-6412.	5.1	19
220	Influence of injection well configuration and rock wettability on CO <sub>2</sub> plume behaviour and CO <sub>2</sub> trapping capacity in heterogeneous reservoirs. Journal of Natural Gas Science and Engineering, 2017, 43, 190-206.	4.4	86
221	Experimental determination of hydrate phase equilibrium for different gas mixtures containing methane, carbon dioxide and nitrogen with motor current measurements. Journal of Natural Gas Science and Engineering, 2017, 38, 59-73.	4.4	79
222	Retention of Silica Nanoparticles in Limestone Porous Media. , 2017, , .		14
223	Wettability of nano-treated calcite/CO <sub>2</sub> /brine systems: Implication for enhanced CO <sub>2</sub> storage potential. International Journal of Greenhouse Gas Control, 2017, 66, 97-105.	4.6	50
224	Carbon geosequestration in limestone: Pore-scale dissolution and geomechanical weakening. International Journal of Greenhouse Gas Control, 2017, 66, 106-119.	4.6	108
225	Permeability Evolution in Sandstone Due to CO <sub>2</sub> Injection. Energy & Fuels, 2017, 31, 12390-12398.	5.1	55
226	Impact of Solid Surface Energy on Wettability of CO <sub>2</sub> -brine-Mineral Systems as a Function of Pressure, Temperature and Salinity. Energy Procedia, 2017, 114, 4832-4842.	1.8	17
227	Influence of Rock Microstructure on its Electrical Properties: An Analysis Using X-ray Microcomputed Tomography. Energy Procedia, 2017, 114, 5023-5031.	1.8	10
228	Influence of Regenerated Monoethylene Glycol on Natural Gas Hydrate Formation. Energy & Fuels, 2017, 31, 12914-12931.	5.1	17
229	Coal Wettability After CO <sub>2</sub> Injection. Energy & Fuels, 2017, 31, 12376-12382.	5.1	27
230	Capillary trapping quantification in sandstones using <sup>29</sup> NMR relaxometry. Water Resources Research, 2017, 53, 7917-7932.	4.2	38
231	Influence of Rock Wettability on CO <sub>2</sub> Migration and Storage Capacity in Deep Saline Aquifers. Energy Procedia, 2017, 114, 4357-4365.	1.8	22
232	Stabilising nanofluids in saline environments. Journal of Colloid and Interface Science, 2017, 508, 222-229.	9.4	88
233	Monte Carlo Simulation of Supercritical Carbon Dioxide Adsorption in Carbon Slit Pores. Energy & Fuels, 2017, 31, 9717-9724.	5.1	20
234	Influence of Miscible CO <sub>2</sub> Flooding on Wettability and Asphaltene Precipitation in Indiana Lime Stone. , 2017, , .		20

#	ARTICLE	IF	CITATIONS
235	Wettability Alteration of Carbonate Rocks via Nanoparticle-Anionic Surfactant Flooding at Reservoirs Conditions. , 2017, , .		17
236	Effect of temperature and SiO <sub>2</sub> nanoparticle size on wettability alteration of oil-wet calcite. Fuel, 2017, 206, 34-42.	6.4	115
237	Nanoparticles influence on wetting behaviour of fractured limestone formation. Journal of Petroleum Science and Engineering, 2017, 149, 782-788.	4.2	77
238	Influence of CO <sub>2</sub> wettability on CO <sub>2</sub> migration and trapping capacity in deep saline aquifers. , 2017, 7, 328-338.		70
239	Influence of shale total organic content on CO <sub>2</sub> geo-storage potential. Geophysical Research Letters, 2017, 44, 8769-8775.	4.0	107
240	Effect of brine salinity on CO <sub>2</sub> plume migration and trapping capacity in deep saline aquifers. APPEA Journal, 2017, 57, 100.	0.2	28
241	Oil-Water Interfacial Tensions of Silica Nanoparticle-Surfactant Formulations. Tenside, Surfactants, Detergents, 2017, 54, 334-341.	1.2	46
242	3D pore scale analysis of limestone matrix dissolution in CO <sub>2</sub> EOR and geosequestration. , 2017, , .		0
243	Analysis of high-resolution X-ray computed tomography images of Bentheim sandstone under elevated confining pressures. Geophysical Prospecting, 2016, 64, 848-859.	1.9	48
244	Analytical Techniques for Analyzing Thermally Degraded Monoethylene Glycol with Methyl Diethanolamine and Film Formation Corrosion Inhibitor. Energy & Fuels, 2016, 30, 10937-10949.	5.1	27
245	On wettability of shale rocks. Journal of Colloid and Interface Science, 2016, 475, 104-111.	9.4	136
246	Swelling-induced changes in coal microstructure due to supercritical CO <sub>2</sub> injection. Geophysical Research Letters, 2016, 43, 9077-9083.	4.0	111
247	Experimental study on physical structure properties and anisotropic cleat permeability estimation on coal cores from China. Journal of Natural Gas Science and Engineering, 2016, 35, 131-143.	4.4	42
248	Impact of fines and rock wettability on reservoir formation damage. Geophysical Prospecting, 2016, 64, 860-874.	1.9	28
249	Dependence of quartz wettability on fluid density. Geophysical Research Letters, 2016, 43, 3771-3776.	4.0	88
250	Multi-scale x-ray computed tomography analysis of coal microstructure and permeability changes as a function of effective stress. International Journal of Coal Geology, 2016, 165, 149-156.	5.0	130
251	Solid/CO <sub>2</sub> and solid/water interfacial tensions as a function of pressure, temperature, salinity and mineral type: Implications for CO <sub>2</sub> wettability and CO <sub>2</sub> geo-storage. International Journal of Greenhouse Gas Control, 2016, 53, 263-273.	4.6	103
252	CO <sub>2</sub> Wettability of Shales and Coals as a Function of Pressure, Temperature and Rank: Implications for CO <sub>2</sub> Sequestration and Enhanced Methane Recovery. , 2016, , .		9



#	ARTICLE	IF	CITATIONS
253	Silica Nanofluids in an Oilfield Polymer Polyacrylamide: Interfacial Properties, Wettability Alteration, and Applications for Chemical Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2016, 55, 12387-12397.	3.7	180
254	The scaling exponent of residual nonwetting phase cluster size distributions in porous media. Geophysical Research Letters, 2016, 43, 11,253.	4.0	30
255	Numerical Modeling for the Prediction of Residual CO <sub>2</sub> Trapping in Water-Wet Geological Porous Media. , 2016, , .		1
256	Change in Geomechanical Properties of Limestone Due to Supercritical CO <sub>2</sub> Injection. , 2016, , .		11
257	Total Porosity of Tight Rocks: A Welcome to the Heat Transfer Technique. Energy & Fuels, 2016, 30, 10072-10079.	5.1	27
258	Swelling effect on coal micro structure and associated permeability reduction. Fuel, 2016, 182, 568-576.	6.4	97
259	Influence of Wettability on Residual Gas Trapping and Enhanced Oil Recovery in Three-Phase Flow: A Pore-Scale Analysis by Use of Microcomputed Tomography. SPE Journal, 2016, 21, 1916-1929.	3.1	52
260	The impact of residual water on CH <sub>4</sub> -CO <sub>2</sub> dispersion in consolidated rock cores. International Journal of Greenhouse Gas Control, 2016, 50, 100-111.	4.6	40
261	Shale fracture surface area measured by tracking exchangeable cations. Journal of Petroleum Science and Engineering, 2016, 138, 97-103.	4.2	19
262	CO <sub>2</sub> -wettability of low to high rank coal seams: Implications for carbon sequestration and enhanced methane recovery. Fuel, 2016, 181, 680-689.	6.4	89
263	Structural trapping capacity of oil-wet caprock as a function of pressure, temperature and salinity. International Journal of Greenhouse Gas Control, 2016, 50, 112-120.	4.6	84
264	Geo-Mechanical Weakening of Limestone Due to Supercritical CO <sub>2</sub> Injection. , 2016, , .		15
265	Nanofluids for Enhanced Oil Recovery Processes: Wettability Alteration Using Zirconium Oxide. , 2016, , .		33
266	Residual trapping of supercritical CO <sub>2</sub> in oil-wet sandstone. Journal of Colloid and Interface Science, 2016, 469, 63-68.	9.4	124
267	Receding and advancing (CO <sub>2</sub> + brine + quartz) contact angles as a function of pressure, temperature, surface roughness, salt type and salinity. Journal of Chemical Thermodynamics, 2016, 93, 416-423.	2.0	174
268	Wettability alteration of oil-wet carbonate by silica nanofluid. Journal of Colloid and Interface Science, 2016, 461, 435-442.	9.4	332
269	Impact of pressure and temperature on CO <sub>2</sub> "brine" mica contact angles and CO <sub>2</sub> "brine" interfacial tension: Implications for carbon geo-sequestration. Journal of Colloid and Interface Science, 2016, 462, 208-215.	9.4	190
270	Coal microstructure changes due to water absorption and CO <sub>2</sub> injection. APPEA Journal, 2016, 56, 593.	0.2	8

#	ARTICLE	IF	CITATIONS
271	CO <sub>2</sub> wettability of caprocks: Implications for structural storage capacity and containment security. <i>Geophysical Research Letters</i> , 2015, 42, 9279-9284.	4.0	192
272	CO <sub>2</sub> wettability of seal and reservoir rocks and the implications for carbon geo-sequestration. <i>Water Resources Research</i> , 2015, 51, 729-774.	4.2	414
273	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. <i>Journal of Petroleum Science and Engineering</i> , 2015, 129, 58-62.	4.2	60
274	Pore-scale analysis of formation damage in Bentheimer sandstone with in-situ NMR and micro-computed tomography experiments. <i>Journal of Petroleum Science and Engineering</i> , 2015, 129, 48-57.	4.2	79
275	Influence of temperature and pressure on quartz-water-CO <sub>2</sub> contact angle and CO <sub>2</sub> -water interfacial tension. <i>Journal of Colloid and Interface Science</i> , 2015, 441, 59-64.	9.4	177
276	Contamination of silica surfaces: Impact on water-CO <sub>2</sub> -quartz and glass contact angle measurements. <i>International Journal of Greenhouse Gas Control</i> , 2014, 22, 325-328.	4.6	229
277	An Experimental Study of Three-Phase Trapping in Sand Packs. <i>Transport in Porous Media</i> , 2014, 103, 421-436.	2.6	14
278	In-situ Residual Oil Saturation And Cluster Size Distribution In Sandstones After Surfactant Flooding Imaged With X-ray Micro-computed Tomography. , 2014, , .		2
279	Acoustic Response of Reservoir Sandstones during Injection of Supercritical CO <sub>2</sub> . <i>Energy Procedia</i> , 2014, 63, 4281-4288.	1.8	9
280	Permeability evolution in sandstone due to injection of CO <sub>2</sub> -saturated brine or supercritical CO <sub>2</sub> at reservoir conditions. <i>Energy Procedia</i> , 2014, 63, 3051-3059.	1.8	29
281	In-situ Residual Oil Saturation And Cluster Size Distribution In Sandstones After Surfactant Flooding Imaged With X-ray Micro-computed Tomography. , 2014, , .		5
282	The Impact of Tides on the Capillary Transition Zone. <i>Transport in Porous Media</i> , 2013, 97, 87-103.	2.6	2
283	Molecular Dynamics Simulation of Water/CO <sub>2</sub> -quartz Interfacial Properties: Application to Subsurface Gas Injection. <i>Energy Procedia</i> , 2013, 37, 5387-5402.	1.8	69
284	Genetic algorithm-based pore network extraction from micro-computed tomography images. <i>Chemical Engineering Science</i> , 2013, 92, 157-166.	3.8	48
285	Pore-scale imaging and modelling. <i>Advances in Water Resources</i> , 2013, 51, 197-216.	3.8	1,407
286	Simultaneous oil recovery and residual gas storage: A pore-level analysis using in situ X-ray micro-tomography. <i>Fuel</i> , 2013, 103, 905-914.	6.4	122
287	The influence of pore space geometry on the entrapment of carbon dioxide by capillary forces. , 2012, , .		16
288	Molecular dynamics computations of brine-CO <sub>2</sub> interfacial tensions and brine-CO <sub>2</sub> -quartz contact angles and their effects on structural and residual trapping mechanisms in carbon geo-sequestration. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 405-414.	9.4	198

#	ARTICLE	IF	CITATIONS
289	Comparison of residual oil cluster size distribution, morphology and saturation in oil-wet and water-wet sandstone. Journal of Colloid and Interface Science, 2012, 375, 187-192.	9.4	198
290	A fast method to equilibrate carbon dioxide with brine at high pressure and elevated temperature including solubility measurements. Journal of Supercritical Fluids, 2012, 62, 55-59.	3.2	73
291	TIME DEPENDENCE OF FREE FALL GRAVITY DRAINAGE IN UNCONSOLIDATED SAND. Journal of Porous Media, 2012, 15, 721-733.	1.9	1
292	Measurements of the capillary trapping of super-critical carbon dioxide in Berea sandstone. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	257
293	Residual CO <sub>2</sub> imaged with X-ray micro-tomography. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	280
294	Alkyl Polyglycoside/1-Naphthol Formulations: A Case Study of Surfactant Enhanced Oil Recovery. Tenside, Surfactants, Detergents, 2011, 48, 121-126.	1.2	13
295	Immiscible Displacements and Capillary Trapping in CO <sub>2</sub> Storage. Energy Procedia, 2011, 4, 4969-4976.	1.8	67
296	Dilute iota- and kappa-Carrageenan solutions with high viscosities in high salinity brines. Journal of Petroleum Science and Engineering, 2011, 75, 304-311.	4.2	37
297	Capillary-Trapping Capacity of Sandstones and Sandpacks. SPE Journal, 2011, 16, 778-783.	3.1	90
298	Experimental Study of Surfactant Retention on Kaolinite Clay. Tenside, Surfactants, Detergents, 2011, 48, 346-358.	1.2	16
299	Measurement of Nonwetting-Phase Trapping in Sandpacks. SPE Journal, 2010, 15, 274-281.	3.1	86
300	Measurement of Carbon Dioxide Capillary Trapping in Core Analysis. , 2010, , .		2
301	Capillary Trapping in Water-Wet Sandstones: Coreflooding Experiments and Pore-Network Modeling. , 2010, , .		20
302	Analysis of the Influence of Alkyl Polyglycoside Surfactant and Cosolvent Structure on Interfacial Tension in Aqueous Formulations versus n-Octane. Tenside, Surfactants, Detergents, 2010, 47, 87-97.	1.2	29
303	Branched Alkyl Alcohol Propoxylated Sulfate Surfactants for Improved Oil Recovery. Tenside, Surfactants, Detergents, 2010, 47, 152-161.	1.2	69
304	Alkyl Polyglycoside-Sorbitan Ester Formulations for Improved Oil Recovery. Tenside, Surfactants, Detergents, 2010, 47, 280-287.	1.2	34
305	New surfactant classes for enhanced oil recovery and their tertiary oil recovery potential. Journal of Petroleum Science and Engineering, 2010, 71, 23-29.	4.2	264
306	Measurements of non-wetting phase trapping applied to carbon dioxide storage. International Journal of Greenhouse Gas Control, 2010, 4, 283-288.	4.6	52

#	ARTICLE	IF	CITATIONS
307	Capillary Trapping in Carbonate Rocks. , 2010, , .		6
308	X-ray tomography measurements of power-law cluster size distributions for the nonwetting phase in sandstones. Physical Review E, 2010, 82, 056315.	2.1	119
309	NONWETTING PHASE RESIDUAL SATURATION IN SAND PACKS. Journal of Porous Media, 2010, 13, 591-599.	1.9	22
310	Simulation and Experimental Validation of Two-Phase Flow in an Aerosol Counter-Flow Reactor using Computational Fluid Dynamics. Chemical Engineering and Technology, 2009, 32, 939-947.	1.5	3
311	Pore-scale simulation of NMR response. Journal of Petroleum Science and Engineering, 2009, 67, 168-178.	4.2	80
312	Alkyl polyglycoside surfactantâ€“alcohol cosolvent formulations for improved oil recovery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 339, 48-59.	4.7	146
313	Measurements of Non-Wetting Phase Trapping Applied to Carbon Dioxide Storage. Energy Procedia, 2009, 1, 3173-3180.	1.8	27
314	Three-phase measurements of oil and gas trapping in sand packs. Advances in Water Resources, 2009, 32, 1535-1542.	3.8	16
315	Capillary Trapping Capacity of Rocks and Sandpacks. , 2009, , .		15
316	Three-Phase Measurements of Non-wetting Phase Trapping in Unconsolidated Sand Packs. , 2009, , .		0
317	Measurement of Non-Wetting Phase Trapping in Sand Packs. , 2008, , .		24
318	Adhesion of construction sealants to polymer foam backer rod used in building construction. International Journal of Adhesion and Adhesives, 2006, 26, 555-566.	2.9	20
319	Characterisation of Plastic Foams used as Backer Rod in the Construction Industry. Frontiers in Forests and Global Change, 2004, 23, 77-107.	1.1	3
320	Alkyl Polyglycoside Surfactants for Improved Oil Recovery. , 2004, , .		18
321	Dissolution Trapping of Carbon Dioxide in Reservoir Formation Brine â€“ A Carbon Storage Mechanism. , 0, , .		71
322	EOR Processes, Opportunities and Technological Advancements. , 0, , .		27
323	Residual CO <sub>2</sub> Saturation Distributions in Rock Samples Measured by X-Ray CT. , 0, , 381-388.		3
324	An investigation of some H <sub>2</sub> S thermodynamical properties at the water interface under pressurised conditions through molecular dynamics. Molecular Physics, 0, , .	1.7	4