Stefan Iglauer

List of Publications by Year
in descending order

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324 papers	16,926 citations	10986 71 h-index	22832 112 g-index
327 all docs	327 docs citations	327 times ranked	6216 citing authors

#	Article	IF	Citations
1	Pore-scale imaging and modelling. Advances in Water Resources, 2013, 51, 197-216.	3.8	1,407
2	CO₂wettability of seal and reservoir rocks and the implications for carbon geo-sequestration. Water Resources Research, 2015, 51, 729-774.	4.2	414
3	Wettability alteration of oil-wet carbonate by silica nanofluid. Journal of Colloid and Interface Science, 2016, 461, 435-442.	9.4	332
4	Residual CO₂imaged with X-ray micro-tomography. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	280
5	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
6	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
7	CO₂â€“Waterâ€“Rock Wettability: Variability, Influencing Factors, and Implications for CO₂ Geostorage. Accounts of Chemical Research, 2017, 50, 1134-1142.	15.6	248
8	Contamination of silica surfaces: Impact on waterâ€“CO2â€“quartz and glass contact angle measurements. International Journal of Greenhouse Gas Control, 2014, 22, 325-328.	4.6	229
9	Molecular dynamics computations of brineâ€“CO2 interfacial tensions and brineâ€“CO2â€“quartz contact angles and their effects on structural and residual trapping mechanisms in carbon geo-sequestration. Journal of Colloid and Interface Science, 2012, 386, 405-414.	9.4	198
10	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
11	CO₂ wettability of caprocks: Implications for structural storage capacity and containment security. Geophysical Research Letters, 2015, 42, 9279-9284.	4.0	192
12	Impact of pressure and temperature on CO 2 â€“brineâ€“mica contact angles and CO 2 â€“brine interfacial tension: Implications for carbon geo-sequestration. Journal of Colloid and Interface Science, 2016, 462, 208-215.	9.4	190
13	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
14	Influence of temperature and pressure on quartzâ€“waterâ€“CO2 contact angle and CO2â€“water interfacial tension. Journal of Colloid and Interface Science, 2015, 441, 59-64.	9.4	177
15	Receding and advancing (CO 2 + 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
16	Underground hydrogen storage: Influencing parameters and future outlook. Advances in Colloid and Interface Science, 2021, 294, 102473.	14.7	167
17	Impact of reservoir wettability and heterogeneity on CO 2 -plume migration and trapping capacity. International Journal of Greenhouse Gas Control, 2017, 58, 142-158.	4.6	163
18	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

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19	Wettability of rock/CO2/brine and rock/oil/CO2-enriched-brine systems:Critical parametric analysis and future outlook. Advances in Colloid and Interface Science, 2019, 268, 91-113.	14.7	138
20	On wettability of shale rocks. Journal of Colloid and Interface Science, 2016, 475, 104-111.	9.4	136
21	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
22	Residual trapping of supercritical CO2 in oil-wet sandstone. Journal of Colloid and Interface Science, 2016, 469, 63-68.	9.4	124
23	Simultaneous oil recovery and residual gas storage: A pore-level analysis using in situ X-ray micro-tomography. Fuel, 2013, 103, 905-914.	6.4	122
24	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
25	Wettability of nanofluid-modified oil-wet calcite at reservoir conditions. Fuel, 2018, 211, 405-414.	6.4	116
26	Effect of temperature and SiO2 nanoparticle size on wettability alteration of oil-wet calcite. Fuel, 2017, 206, 34-42.	6.4	115
27	Dynamic Poreâ€Scale Dissolution by CO₂â€Saturated Brine in Carbonates: Impact of Homogeneous Versus Fractured Versus Vuggy Pore Structure. Water Resources Research, 2020, 56, e2019WR026112.	4.2	114
28	Swellingâ€induced changes in coal microstructure due to supercritical CO₂ injection. Geophysical Research Letters, 2016, 43, 9077-9083.	4.0	111
29	Influence of pressure, temperature and organic surface concentration on hydrogen wettability of caprock; implications for hydrogen geo-storage. Energy Reports, 2021, 7, 5988-5996.	5.1	111
30	Hydrogen Wettability of Sandstone Reservoirs: Implications for Hydrogen Geoâ€Storage. Geophysical Research Letters, 2021, 48, e2020GL090814.	4.0	110
31	CO2 storage in carbonates: Wettability of calcite. International Journal of Greenhouse Gas Control, 2017, 62, 113-121.	4.6	108
32	Carbon geosequestration in limestone: Pore-scale dissolution and geomechanical weakening. International Journal of Greenhouse Gas Control, 2017, 66, 106-119.	4.6	108
33	CO₂ and CH₄ Wettabilities of Organic-Rich Shale. Energy & Fuels, 2018, 32, 1914-1922.	5.1	108
34	Effect of nanofluid on CO2-wettability reversal of sandstone formation; implications for CO2 geo-storage. Journal of Colloid and Interface Science, 2020, 559, 304-312.	9.4	108
35	Influence of shaleâ€total organic content on CO₂ geoâ€storage potential. Geophysical Research Letters, 2017, 44, 8769-8775.	4.0	107
36	Wettability alteration of oil-wet limestone using surfactant-nanoparticle formulation. Journal of Colloid and Interface Science, 2017, 504, 334-345.	9.4	106

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37	Solid/CO 2 and solid/water interfacial tensions as a function of pressure, temperature, salinity and mineral type: Implications for CO 2 -wettability and CO 2 geo-storage. International Journal of Greenhouse Gas Control, 2016, 53, 263-273.	4.6	103
38	Pore-scale analysis of coal cleat network evolution through liquid nitrogen treatment: A Micro-Computed Tomography investigation. International Journal of Coal Geology, 2020, 219, 103370.	5.0	99
39	Swelling effect on coal micro structure and associated permeability reduction. Fuel, 2016, 182, 568-576.	6.4	97
40	Organic acid concentration thresholds for ageing of carbonate minerals: Implications for CO2 trapping/storage. Journal of Colloid and Interface Science, 2019, 534, 88-94.	9.4	91
41	Hydrogen wettability of quartz substrates exposed to organic acids; Implications for hydrogen geo-storage in sandstone reservoirs. Journal of Petroleum Science and Engineering, 2021, 207, 109081.	4.2	91
42	Hydrogen wettability of carbonate formations: Implications for hydrogen geo-storage. Journal of Colloid and Interface Science, 2022, 614, 256-266.	9.4	91
43	Capillary-Trapping Capacity of Sandstones and Sandpacks. SPE Journal, 2011, 16, 778-783.	3.1	90
44	CO2-wettability of low to high rank coal seams: Implications for carbon sequestration and enhanced methane recovery. Fuel, 2016, 181, 680-689.	6.4	89
45	Effect of wettability heterogeneity and reservoir temperature on CO 2 storage efficiency in deep saline aquifers. International Journal of Greenhouse Gas Control, 2018, 68, 216-229.	4.6	89
46	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
47	Dependence of quartz wettability on fluid density. Geophysical Research Letters, 2016, 43, 3771-3776.	4.0	88
48	Stabilising nanofluids in saline environments. Journal of Colloid and Interface Science, 2017, 508, 222-229.	9.4	88
49	CO2-wettability of sandstones exposed to traces of organic acids: Implications for CO2 geo-storage. International Journal of Greenhouse Gas Control, 2019, 83, 61-68.	4.6	88
50	Influence of Organic Acid Concentration on Wettability Alteration of Cap-Rock: Implications for CO₂ Trapping/Storage. ACS Applied Materials & Interfaces, 2020, 12, 39850-39858.	8.0	88
51	Environmental Friendliness and High Performance of Multifunctional Tween 80/ZnO-Nanoparticles-Added Water-Based Drilling Fluid: An Experimental Approach. ACS Sustainable Chemistry and Engineering, 2020, 8, 11224-11243.	6.7	87
52	Leakage risk assessment of a CO2 storage site: A review. Earth-Science Reviews, 2021, 223, 103849.	9.1	87
53	Measurement of Nonwetting-Phase Trapping in Sandpacks. SPE Journal, 2010, 15, 274-281.	3.1	86
54	Influence of injection well configuration and rock wettability on CO 2 plume behaviour and CO 2 trapping capacity in heterogeneous reservoirs. Journal of Natural Gas Science and Engineering, 2017, 43, 190-206.	4.4	86

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55	Nanoscale rock mechanical property changes in heterogeneous coal after water adsorption. Fuel, 2018, 218, 23-32.	6.4	85
56	Current advances in syngas (CO + H2) production through bi-reforming of methane using various catalysts: A review. International Journal of Hydrogen Energy, 2021, 46, 32809-32845.	7.1	85
57	Influence of organic molecules on wetting characteristics of mica/H2/brine systems: Implications for hydrogen structural trapping capacities. Journal of Colloid and Interface Science, 2022, 608, 1739-1749.	9.4	85
58	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
59	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.	7.1	84
60	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.	7.1	81
61	Pore-scale simulation of NMR response. Journal of Petroleum Science and Engineering, 2009, 67, 168-178.	4.2	80
62	Pore-scale analysis of formation damage in Bentheimer sandstone with in-situ NMR and micro-computed tomography experiments. Journal of Petroleum Science and Engineering, 2015, 129, 48-57.	4.2	79
63	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
64	A review on clay wettability: From experimental investigations to molecular dynamics simulations. Advances in Colloid and Interface Science, 2020, 285, 102266.	14.7	79
65	Pore scale investigation of low salinity surfactant nanofluid injection into oil saturated sandstone via X-ray micro-tomography. Journal of Colloid and Interface Science, 2020, 562, 370-380.	9.4	78
66	Stress Sensitivity of Fractured and Vuggy Carbonate: An Xâ€Ray Computed Tomography Analysis. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018759.	3.4	78
67	Nanoparticles influence on wetting behaviour of fractured limestone formation. Journal of Petroleum Science and Engineering, 2017, 149, 782-788.	4.2	77
68	H2â^'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
69	Micro-scale fracturing mechanisms in coal induced by adsorption of supercritical CO 2. International Journal of Coal Geology, 2017, 175, 40-50.	5.0	76
70	Influence of tailor-made TiO2/API bentonite nanocomposite on drilling mud performance: Towards enhanced drilling operations. Applied Clay Science, 2020, 199, 105862.	5.2	76
71	Shale Wettability: Data Sets, Challenges, and Outlook. Energy & Fuels, 2021, 35, 2965-2980.	5.1	76
72	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

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73	Dissolution Trapping of Carbon Dioxide in Reservoir Formation Brine â€“ A Carbon Storage Mechanism. , 0, , .		71
74	Influence of CO₂â€wettability on CO₂ migration and trapping capacity in deep saline aquifers. , 2017, 7, 328-338.		70
75	Branched Alkyl Alcohol Propoxylated Sulfate Surfactants for Improved Oil Recovery. Tenside, Surfactants, Detergents, 2010, 47, 152-161.	1.2	69
76	Molecular Dynamics Simulation of Water/CO2-quartz Interfacial Properties: Application to Subsurface Gas Injection. Energy Procedia, 2013, 37, 5387-5402.	1.8	69
77	Wettability of Fully Hydroxylated and Alkylated (001) Î±-Quartz Surface in Carbon Dioxide Atmosphere. Journal of Physical Chemistry C, 2019, 123, 9027-9040.	3.1	69
78	Influence of Cryogenic Liquid Nitrogen on Petro-Physical Characteristics of Mancos Shale: An Experimental Investigation. Energy & Fuels, 2020, 34, 2160-2168.	5.1	69
79	Nanomaterial-Based Drilling Fluids for Exploitation of Unconventional Reservoirs: A Review. Energies, 2020, 13, 3417.	3.1	69
80	X-ray tomography imaging of shale microstructures: A review in the context of multiscale correlative imaging. International Journal of Coal Geology, 2021, 233, 103641.	5.0	69
81	Optimum storage depths for structural CO2 trapping. International Journal of Greenhouse Gas Control, 2018, 77, 82-87.	4.6	68
82	Hydrogen diffusion in coal: Implications for hydrogen geoâ€storage. Journal of Colloid and Interface Science, 2022, 608, 1457-1462.	9.4	68
83	Immiscible Displacements and Capillary Trapping in CO2 Storage. Energy Procedia, 2011, 4, 4969-4976.	1.8	67
84	Hydrogen wettability of clays: Implications for underground hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 34356-34361.	7.1	67
85	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
86	Pore type and pore size distribution of tight reservoirs in the Permian Lucaogou Formation of the Jimsar Sag, Junggar Basin, NW China. Marine and Petroleum Geology, 2018, 89, 761-774.	3.3	65
87	A Multiscale Study on Shale Wettability: Spontaneous Imbibition Versus Contact Angle. Water Resources Research, 2019, 55, 5012-5032.	4.2	65
88	Methane (CH₄) Wettability of Clay-Coated Quartz at Reservoir Conditions. Energy & Fuels, 2019, 33, 788-795.	5.1	64
89	Impact of anionic surfactant on stability, viscoelastic moduli, and oil recovery of silica nanofluid in saline environment. Journal of Petroleum Science and Engineering, 2020, 195, 107634.	4.2	64
90	Stable Dispersion of Coal Fines during Hydraulic Fracturing Flowback in Coal Seam Gas Reservoirsâ€"An Experimental Study. Energy & Fuels, 2020, 34, 5566-5577.	5.1	64

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91	CO2-wettability reversal of cap-rock by alumina nanofluid: Implications for CO2 geo-storage. Fuel Processing Technology, 2021, 214, 106722.	7.2	64
92	Impact of a novel biosynthesized nanocomposite (SiO2@Montmorilant@Xanthan) on wettability shift and interfacial tension: Applications for enhanced oil recovery. Fuel, 2021, 298, 120773.	6.4	64
93	Capillary Sealing Efficiency Analysis of Caprocks: Implication for Hydrogen Geological Storage. Energy & Fuels, 2022, 36, 4065-4075.	5.1	64
94	Influence of surface chemistry on interfacial properties of low to high rank coal seams. Fuel, 2017, 194, 211-221.	6.4	63
95	Effect of humic acid on CO2-wettability in sandstone formation. Journal of Colloid and Interface Science, 2021, 588, 315-325.	9.4	63
96	Pineapple (AnanÃ¡s comosus) leaves ash as a solid base catalyst for biodiesel synthesis. Bioresource Technology, 2020, 312, 123569.	9.6	63
97	Shale alteration after exposure to supercritical CO2. International Journal of Greenhouse Gas Control, 2017, 62, 91-99.	4.6	62
98	Impact of nanoparticles on the CO2-brine interfacial tension at high pressure and temperature. Journal of Colloid and Interface Science, 2018, 532, 136-142.	9.4	61
99	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
100	N2+CO2+NaCl brine interfacial tensions and contact angles on quartz at CO2 storage site conditions in the Gippsland basin, Victoria/Australia. Journal of Petroleum Science and Engineering, 2015, 129, 58-62.	4.2	60
101	Effect of total organic carbon (TOC) content on shale wettability at high pressure and high temperature conditions. Journal of Petroleum Science and Engineering, 2020, 193, 107374.	4.2	58
102	Permeability Evolution in Sandstone Due to CO₂ Injection. Energy & Fuels, 2017, 31, 12390-12398.	5.1	55
103	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
104	Impact of salinity on CO₂ containment security in highly heterogeneous reservoirs. , 2018, 8, 93-105.		53
105	Residual Trapping of CO₂ in an Oilâ€Filled, Oilâ€Wet Sandstone Core: Results of Threeâ€Phase Poreâ€Scale Imaging. Geophysical Research Letters, 2019, 46, 11146-11154.	4.0	53
106	Measurements of non-wetting phase trapping applied to carbon dioxide storage. International Journal of Greenhouse Gas Control, 2010, 4, 283-288.	4.6	52
107	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
108	Effect of the Temperature on CO₂/Brine/Dolomite Wettability: Hydrophilic versus Hydrophobic Surfaces. Energy & Fuels, 2017, 31, 6329-6333.	5.1	52

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109	High pressure-elevated temperature x-ray micro-computed tomography for subsurface applications. Advances in Colloid and Interface Science, 2018, 256, 393-410.	14.7	52
110	Liquid nitrogen fracturing efficiency as a function of coal rank: A multi-scale tomographic study. Journal of Natural Gas Science and Engineering, 2021, 95, 104177.	4.4	52
111	Synergistic Effect of Nanoparticles and Polymers on the Rheological Properties of Injection Fluids: Implications for Enhanced Oil Recovery. Energy & Fuels, 2021, 35, 6125-6135.	5.1	51
112	Wettability of nano-treated calcite/CO 2 /brine systems: Implication for enhanced CO 2 storage potential. International Journal of Greenhouse Gas Control, 2017, 66, 97-105.	4.6	50
113	Low-Salinity Surfactant Nanofluid Formulations for Wettability Alteration of Sandstone: Role of the SiO₂ Nanoparticle Concentration and Divalent Cation/SO₄^{2â€“} Ratio. Energy & Fuels, 2019, 33, 739-746.	5.1	50
114	Carbon dioxide/brine wettability of porous sandstone versus solid quartz: An experimental and theoretical investigation. Journal of Colloid and Interface Science, 2018, 524, 188-194.	9.4	49
115	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T2) in sandstone rocks. Journal of Petroleum Science and Engineering, 2019, 175, 985-997.	4.2	49
116	Experimental investigation of carbonate wettability as a function of mineralogical and thermo-physical conditions. Fuel, 2020, 264, 116846.	6.4	49
117	Morphological and petro physical estimation of Eocene tight carbonate formation cracking by cryogenic liquid nitrogen; a case study of Lower Indus basin, Pakistan. Journal of Petroleum Science and Engineering, 2020, 192, 107318.	4.2	49
118	Genetic algorithm-based pore network extraction from micro-computed tomography images. Chemical Engineering Science, 2013, 92, 157-166.	3.8	48
119	Analysis of highâ€resolution Xâ€ray computed tomography images of Bentheim sandstone under elevated confining pressures. Geophysical Prospecting, 2016, 64, 848-859.	1.9	48
120	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
121	Hydrogen Adsorption on Subâ€Bituminous Coal: Implications for Hydrogen Geoâ€Storage. Geophysical Research Letters, 2021, 48, e2021GL092976.	4.0	48
122	Experimental pore-scale analysis of carbon dioxide hydrate in sandstone via X-Ray micro-computed tomography. International Journal of Greenhouse Gas Control, 2018, 79, 73-82.	4.6	47
123	Hydrogen storage potential of coals as a function of pressure, temperature, and rank. Journal of Colloid and Interface Science, 2022, 620, 86-93.	9.4	47
124	Experimental evaluation of rock mineralogy on hydrogen-wettability: Implications for hydrogen geo-storage. Journal of Energy Storage, 2022, 52, 104866.	8.1	47
125	Role of fluid density on quartz wettability. Journal of Petroleum Science and Engineering, 2019, 172, 511-516.	4.2	46
126	Oil-Water Interfacial Tensions of Silica Nanoparticle-Surfactant Formulations. Tenside, Surfactants, Detergents, 2017, 54, 334-341.	1.2	46

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127	Hydrogen underground storage efi¬ciency in a heterogeneous sandstone reservoir. Advances in Geo-Energy Research, 2021, 5, 437-443.	6.0	45
128	Microstructural Effects on Mechanical Properties of Shaly Sandstone. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	43
129	In-situ X-ray micro-computed tomography imaging of the microstructural changes in water-bearing medium rank coal by supercritical CO2 flooding. International Journal of Coal Geology, 2019, 203, 28-35.	5.0	43
130	Effect of Cryogenic Liquid Nitrogen on the Morphological and Petrophysical Characteristics of Tight Gas Sandstone Rocks from Kirthar Fold Belt, Indus Basin, Pakistan. Energy & Fuels, 2020, 34, 14548-14559.	5.1	43
131	Adsorption of nanoparticles on glass bead surface for enhancing proppant performance: A systematic experimental study. Journal of Molecular Liquids, 2021, 328, 115398.	4.9	43
132	Optimum geological storage depths for structural H2 geo-storage. Journal of Petroleum Science and Engineering, 2022, 212, 109498.	4.2	43
133	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
134	Characterization of nanoscale rockmechanical properties and microstructures of a Chinese sub-bituminous coal. Journal of Natural Gas Science and Engineering, 2018, 52, 106-116.	4.4	42
135	The impact of residual water on CH4-CO2 dispersion in consolidated rock cores. International Journal of Greenhouse Gas Control, 2016, 50, 100-111.	4.6	40
136	Nanoscale geomechanical properties of Western Australian coal. Journal of Petroleum Science and Engineering, 2018, 162, 736-746.	4.2	40
137	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
138	Basalt-H2-brine wettability at geo-storage conditions: Implication for hydrogen storage in basaltic formations. Journal of Energy Storage, 2022, 52, 104745.	8.1	40
139	CO 2 geo-storage capacity enhancement via nanofluid priming. International Journal of Greenhouse Gas Control, 2017, 63, 20-25.	4.6	39
140	The interfacial properties of clay-coated quartz at reservoir conditions. Fuel, 2020, 262, 116461.	6.4	39
141	Hydrogen storage in Majiagou carbonate reservoir in China: Geochemical modelling on carbonate dissolution and hydrogen loss. International Journal of Hydrogen Energy, 2022, 47, 24861-24870.	7.1	39
142	Capillary trapping quantification in sandstones using <scp>NMR</scp> relaxometry. Water Resources Research, 2017, 53, 7917-7932.	4.2	38
143	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
144	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

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145	Compressional wave velocity of hydrate-bearing bentheimer sediments with varying pore fillings. International Journal of Hydrogen Energy, 2018, 43, 23193-23200.	7.1	36
146	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.	6.4	36
147	Effect of Nanoparticles on Viscosity and Interfacial Tension of Aqueous Surfactant Solutions at High Salinity and High Temperature. Journal of Surfactants and Detergents, 2020, 23, 327-338.	2.1	35
148	Hydrogen Flooding of a Coal Core: Effect on Coal Swelling. Geophysical Research Letters, 2022, 49, .	4.0	35
149	Alkyl Polyglycoside-Sorbitan Ester Formulations for Improved Oil Recovery. Tenside, Surfactants, Detergents, 2010, 47, 280-287.	1.2	34
150	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
151	Hydrogen wettability in carbonate reservoirs: Implication for underground hydrogen storage from geochemical perspective. International Journal of Hydrogen Energy, 2022, 47, 25357-25366.	7.1	34
152	Nanofluids for Enhanced Oil Recovery Processes: Wettability Alteration Using Zirconium Oxide. , 2016, , .		33
153	Capillary pressure characteristics of CO2-brine-sandstone systems. International Journal of Greenhouse Gas Control, 2020, 94, 102876.	4.6	33
154	Influence of magnetic fields on calcium carbonate scaling in aqueous solutions at 150 Â°C and 1 bar. Journal of Colloid and Interface Science, 2018, 509, 472-484.	9.4	32
155	Enhancement of CO₂ trapping efficiency in heterogeneous reservoirs by waterâ€alternating gas injection. , 2018, 8, 920-931.		32
156	Micro-proppant placement in hydraulic and natural fracture stimulation in unconventional reservoirs: A review. Energy Reports, 2021, 7, 8997-9022.	5.1	32
157	Effect of Monovalent and Divalent Salts on the Interfacial Tension of n-Heptane against Aqueous Anionic Surfactant Solutions. Journal of Chemical & Engineering Data, 2018, 63, 2341-2350.	1.9	31
158	The scaling exponent of residual nonwetting phase cluster size distributions in porous media. Geophysical Research Letters, 2016, 43, 11,253.	4.0	30
159	An experimental study on the flow characteristics during the leakage of high pressure CO2 pipelines. Chemical Engineering Research and Design, 2019, 125, 92-101.	5.6	30
160	Fluidâ€“rock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. Energy Reports, 2022, 8, 6355-6395.	5.1	30
161	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
162	Permeability evolution in sandstone due to injection of CO2-saturated brine or supercritical CO2 at reservoir conditions. Energy Procedia, 2014, 63, 3051-3059.	1.8	29

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163	Molecular insights in the temperature effect on adsorption of cationic surfactants at liquid/liquid interfaces. Journal of Molecular Liquids, 2020, 299, 112104.	4.9	29
164	Impact of fines and rock wettability on reservoir formation damage. Geophysical Prospecting, 2016, 64, 860-874.	1.9	28
165	Effect of brine salinity on CO2 plume migration and trapping capacity in deep saline aquifers. APPEA Journal, 2017, 57, 100.	0.2	28
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