Quan Xie

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7636624/publications.pdf

Version: 2024-02-01

112 papers	3,171 citations	147801 31 h-index	175258 52 g-index
112 all docs	112 docs citations	112 times ranked	1924 citing authors

#	Article	IF	Citations
1	Most common surfactants employed in chemical enhanced oil recovery. Petroleum, 2017, 3, 197-211.	2.8	394
2	Application of nanotechnology for enhancing oil recovery â€“ A review. Petroleum, 2016, 2, 324-333.	2.8	250
3	Oil/water/rock wettability: Influencing factors and implications for low salinity water flooding in carbonate reservoirs. Fuel, 2018, 215, 171-177.	6.4	124
4	Extended DLVO-based estimates of surface force in low salinity water flooding. Journal of Molecular Liquids, 2016, 221, 658-665.	4.9	114
5	Ions tuning water flooding experiments and interpretation by thermodynamics of wettability. Journal of Petroleum Science and Engineering, 2014, 124, 350-358.	4.2	100
6	Toward a Fundamental Understanding of Geological Hydrogen Storage. Industrial & Engineering Chemistry Research, 2022, 61, 3233-3253.	3.7	96
7	Geochemical reactions-induced hydrogen loss during underground hydrogen storage in sandstone reservoirs. International Journal of Hydrogen Energy, 2021, 46, 19998-20009.	7.1	95
8	The low salinity effect at high temperatures. Fuel, 2017, 200, 419-426.	6.4	84
9	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.	4.2	68
10	Investigation of moisture effect on methane adsorption capacity of shale samples. Fuel, 2018, 232, 323-332.	6.4	67
11	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.	4.9	54
12	Drivers of Low Salinity Effect in Carbonate Reservoirs. Energy & Fuels, 2017, 31, 8951-8958.	5.1	53
13	Fines migration during CO2 injection: Experimental results interpreted using surface forces. International Journal of Greenhouse Gas Control, 2017, 65, 32-39.	4.6	52
14	Electrostatic Origins of CO2-Increased Hydrophilicity in Carbonate Reservoirs. Scientific Reports, 2018, 8, 17691.	3.3	49
15	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.	4.2	49
16	Effect of multi-component ions exchange on low salinity EOR: Coupled geochemical simulation study. Petroleum, 2016, 2, 215-224.	2.8	47
17	Effect of specific functional groups on oil adhesion from mica substrate: Implications for low salinity effect. Journal of Industrial and Engineering Chemistry, 2017, 56, 342-349.	5.8	46
18	Supercritical CO2-Shale interaction induced natural fracture closure: Implications for scCO2 hydraulic fracturing in shales. Fuel, 2022, 313, 122682.	6.4	40

#	Article	IF	Citations
19	Impact of surface roughness on wettability of oil-brine-calcite system at sub-pore scale. Journal of Molecular Liquids, 2020, 299, 112107.	4.9	39
20	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
21	Flood characteristic and fluid rock interactions of a supercritical CO 2 , brine, rock system: South West Hub, Western Australia. International Journal of Greenhouse Gas Control, 2016, 54, 309-321.	4.6	38
22	Drivers of low salinity effect in sandstone reservoirs. Journal of Molecular Liquids, 2018, 250, 396-403.	4.9	38
23	Insights into the wettability alteration of CO2-assisted EOR in carbonate reservoirs. Journal of Molecular Liquids, 2019, 279, 420-426.	4.9	37
24	Analytical modelling of wettability alteration-induced micro-fractures during hydraulic fracturing in tight oil reservoirs. Fuel, 2019, 249, 434-440.	6.4	37
25	Thermodynamic characterization of H2-brine-shale wettability: Implications for hydrogen storage at subsurface. International Journal of Hydrogen Energy, 2022, 47, 22510-22521.	7.1	37
26	A pH-Resolved Wettability Alteration: Implications for CO₂-Assisted EOR in Carbonate Reservoirs. Energy & Fuels, 2017, 31, 13593-13599.	5.1	36
27	Characterization of the combined effect of high temperature and moisture on methane adsorption in shale gas reservoirs. Journal of Petroleum Science and Engineering, 2019, 182, 106353.	4.2	36
28	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
29	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
30	Drivers of pH increase and implications for low salinity effect in sandstone. Fuel, 2018, 218, 112-117.	6.4	32
31	Insight investigation of miscible SCCO2 Water Alternating Gas (WAG) injection performance in heterogeneous sandstone reservoirs. Journal of CO2 Utilization, 2018, 28, 255-263.	6.8	32
32	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.	5.0	31
33	Excess H⁺ Increases Hydrophilicity during CO₂-Assisted Enhanced Oil Recovery in Sandstone Reservoirs. Energy & Fuels, 2019, 33, 814-821.	5.1	31
34	Fiber-1, Not Fiber-2, Directly Mediates the Infection of the Pathogenic Serotype 4 Fowl Adenovirus via Its Shaft and Knob Domains. Journal of Virology, 2020, 94, .	3.4	31
35	Insights into immiscible supercritical CO2 EOR: An XCT scanner assisted flow behaviour in layered sandstone porous media. Journal of CO2 Utilization, 2019, 32, 187-195.	6.8	29
36	A review of chemical-assisted minimum miscibility pressure reduction in CO2 injection for enhanced oil recovery. Petroleum, 2021, 7, 245-253.	2.8	29

#	Article	IF	Citations
37	Detecting pH and Ca2+ increase during low salinity waterflooding in carbonate reservoirs: Implications for wettability alteration process. Journal of Molecular Liquids, 2020, 317, 114003.	4.9	28
38	Effect of the Fluidâ€“Shale Interaction on Salinity: Implications for High-Salinity Flowback Water during Hydraulic Fracturing in Shales. Energy & Fuels, 2020, 34, 3031-3040.	5.1	27
39	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.	4.2	25
40	Domain in Fiber-2 interacted with KPNA3/4 significantly affects the replication and pathogenicity of the highly pathogenic FAdV-4. Virulence, 2021, 12, 754-765.	4.4	25
41	Influence of Surface Roughness on the Contact Angle due to Calcite Dissolution in an Oilâ€“Brineâ€“Calcite System: A Nanoscale Analysis Using Atomic Force Microscopy and Geochemical Modeling. Energy & Fuels, 2019, 33, 4219-4224.	5.1	24
42	Distribution of adsorbed water in shale: An experimental study on isolated kerogen and bulk shale samples. Journal of Petroleum Science and Engineering, 2020, 187, 106858.	4.2	23
43	The effects of temperature and acid number of crude oil on the wettability of acid volcanic reservoir rock from the Hailar Oilfield. Petroleum Science, 2010, 7, 93-99.	4.9	22
44	A novel fiber-2-edited live attenuated vaccine candidate against the highly pathogenic serotype 4 fowl adenovirus. Veterinary Research, 2021, 52, 35.	3.0	22
45	Influence of Permeability Heterogeneity on Miscible CO2 Flooding Efficiency in Sandstone Reservoirs: An Experimental Investigation. Transport in Porous Media, 2018, 125, 341-356.	2.6	21
46	Synergetic effect between in-situ mobility control and micro-displacement for chemical enhanced oil recovery (CEOR) of a surface-active nanofluid. Journal of Petroleum Science and Engineering, 2021, 205, 108983.	4.2	21
47	Interpreting Water Uptake by Shale with Ion Exchange, Surface Complexation, and Disjoining Pressure. Energy & Fuels, 2019, 33, 8250-8258.	5.1	20
48	The Effect of Stress and Pore Pressure on Formation Permeability of Ultra-Low-Permeability Reservoir. Petroleum Science and Technology, 2012, 30, 1221-1231.	1.5	18
49	Low Salinity Waterflooding in Low Permeability Sandstone: Coreflood Experiments and Interpretation by Thermodynamics and Simulation. , 2015, , .		18
50	A recombination efficiently increases the pathogenesis of the novel K subgroup of avian leukosis virus. Veterinary Microbiology, 2019, 231, 214-217.	1.9	18
51	Drivers of Wettability Alteration for Oil/Brine/Kaolinite System: Implications for Hydraulic Fracturing Fluids Uptake in Shale Rocks. Energies, 2018, 11, 1666.	3.1	16
52	Co-infection of vvMDV with multiple subgroups of avian leukosis viruses in indigenous chicken flocks in China. BMC Veterinary Research, 2019, 15, 288.	1.9	16
53	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.	5.1	16
54	FAdV-4 without Fiber-2 Is a Highly Attenuated and Protective Vaccine Candidate. Microbiology Spectrum, 2022, 10, e0143621.	3.0	16

#	Article	IF	Citations
55	Electrostatic characterization of -NH+-brine-kaolinite system: Implications for low salinity waterflooding in sandstone reservoirs. Journal of Petroleum Science and Engineering, 2019, 179, 539-545.	4.2	15
56	Gp37 Regulates the Pathogenesis of Avian Leukosis Virus Subgroup J via Its C Terminus. Journal of Virology, 2020, 94, .	3.4	15
57	A Novel Recombinant FAdV-4 Virus with Fiber of FAdV-8b Provides Efficient Protection against Both FAdV-4 and FAdV-8b. Viruses, 2022, 14, 376.	3.3	15
58	Investigation of imbibition areas during well shut-in based on mercury injection experiment and BP neural network. Fuel, 2019, 254, 115621.	6.4	14
59	OASL Triggered by Novel Goose Astrovirus via ORF2 Restricts Its Replication. Journal of Virology, 2020, 94, .	3.4	14
60	Role of brine composition on rock surface energy and its implications for subcritical crack growth in calcite. Journal of Molecular Liquids, 2020, 303, 112638.	4.9	14
61	Experimental study of CO2 huff-n-puff in a tight conglomerate reservoir using true triaxial stress cell core fracturing and displacement system: A case study. Journal of Petroleum Science and Engineering, 2021, 199, 108298.	4.2	14
62	Effects of oligomers dissolved in CO2 or associated gas on IFT and miscibility pressure with a gas-light crude oil system. Journal of Petroleum Science and Engineering, 2019, 181, 106210.	4.2	13
63	Wetting Behavior of Shale Rocks and Its Relationship to Oil Composition. Energy & Fuels, 2019, 33, 12270-12277.	5.1	12
64	Response of Non-Polar Oil Component on Low Salinity Effect in Carbonate Reservoirs: Adhesion Force Measurement Using Atomic Force Microscopy. Energies, 2020, 13, 77.	3.1	12
65	Aggregation Behavior of Amphiphilic PAMAM-Based Hyperbranched Polymer in the Presence of Conventional Small Molecular Surfactants. Advances in Chemical Engineering and Science, 2013, 03, 11-18.	0.5	12
66	An Experimental Investigation of Immiscible-CO2-Flooding Efficiency in Sandstone Reservoirs: Influence of Permeability Heterogeneity. SPE Reservoir Evaluation and Engineering, 2019, 22, 990-997.	1.8	11
67	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.	4.9	11
68	Isolation and phylogenetic analysis of goose astrovirus type 1 from goslings with gout in Jiangxi province, China. Poultry Science, 2022, 101, 101800.	3.4	11
69	Effect of fluid-shale interactions on shales micromechanics: Nanoindentation experiments and interpretation from geochemical perspective. Journal of Natural Gas Science and Engineering, 2022, 101, 104545.	4.4	11
70	Potential Evaluation of Ion Tuning Waterflooding for a Tight Oil Reservoir in Jiyuan OilField: Experiments and Reservoir Simulation Results. , 2015, , .		10
71	Effective Mechanisms to Relate Initial Rock Permeability to Outcome of Relative Permeability Modification. Energies, 2019, 12, 4688.	3.1	10
72	Insights into the nano-structure of oil-brine-kaolinite interfaces: Molecular dynamics and implications for enhanced oil recovery. Applied Clay Science, 2021, 211, 106203.	5.2	10

#	Article	IF	Citations
73	Low-Salinity-Assisted Cationic Polyacrylamide Water Shutoff in Low-Permeability Sandstone Gas Reservoirs. Energy & Fuels, 2020, 34, 5524-5536.	5.1	9
74	Chemical-assisted minimum miscibility pressure reduction between oil and methane. Journal of Petroleum Science and Engineering, 2021, 196, 108094.	4.2	9
75	A novel linear epitope crossing Group 1 and Group 2 influenza A viruses located in the helix A of HA2 derived from H7N9. Veterinary Microbiology, 2019, 228, 39-44.	1.9	8
76	Synergistic pathogenesis of chicken infectious anemia virus and J subgroup of avian leukosis virus. Poultry Science, 2021, 100, 101468.	3.4	8
77	Integral effects of initial fluids configuration and wettability alteration on remaining saturation: characterization with X-ray micro-computed tomography. Fuel, 2021, 306, 121717.	6.4	8
78	New Approach to Alternating Thickenedâ€“Unthickened Gas Flooding for Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2018, 57, 14637-14647.	3.7	7
79	An Experimental Investigation of Immiscible CO2 Flooding Efficiency in Sandstone Reservoirs: Influence of Permeability Heterogeneity. , 2018, , .		7
80	A chicken liver cell line efficiently supports the replication of ALV-J possibly through its high level viral receptor and efficient protein expression system. Veterinary Research, 2018, 49, 41.	3.0	7
81	Alcohol-Assisted Waterflooding in Carbonate Reservoirs. Energy & Fuels, 2019, 33, 10651-10658.	5.1	7
82	Fluidâ€“Fluid Interfacial Effects in Multiphase Flow during Carbonated Waterflooding in Sandstone: Application of X-ray Microcomputed Tomography and Molecular Dynamics. ACS Applied Materials & Interfaces, 2021, 13, 5731-5740.	8.0	7
83	Identification of three novel B cell epitopes in ORF2 protein of the emerging goose astrovirus and their application. Applied Microbiology and Biotechnology, 2022, 106, 855-863.	3.6	7
84	Quantitative determination of abandonment pressure for CO 2 storage in depleted shale gas reservoirs by free-simulator approach. Journal of Natural Gas Science and Engineering, 2016, 36, 519-539.	4.4	6
85	Influence of pH on Acidic Oilâ€“Brineâ€“Carbonate Adhesion Using Atomic Force Microscopy. Energy & Fuels, 2020, 34, 13750-13758.	5.1	6
86	Direct Evidence of Salinity and pH Effects on the Interfacial Interactions of Asphaltene-Brine-Silica Systems. Molecules, 2020, 25, 1214.	3.8	6
87	Wettability alteration using benzoxazine resin: A remedy for water blockage in sandstone gas reservoirs. Fuel, 2021, 291, 120189.	6.4	6
88	Novel preformed gel particles with controllable density and its implications for EOR in fractured-vuggy carbonated reservoirs. Journal of Petroleum Science and Engineering, 2021, 205, 108903.	4.2	6
89	Identification of novel B cell epitopes in the fiber protein of serotype 8 Fowl adenovirus. AMB Express, 2019, 9, 172.	3.0	6
90	Carbonated waterflooding in carbonate reservoirs: Experimental evaluation and geochemical interpretation. Journal of Molecular Liquids, 2020, 308, 113055.	4.9	5

#	Article	IF	Citations
91	Geochemical insights for CO2 huff-n-puff process in shale oil reservoirs. Journal of Molecular Liquids, 2020, 307, 112992.	4.9	5
92	Evaluation of the Potential of Low Salinity Water Flooding in the High Temperature and High Salinity Dong-He-Tang Reservoir in the Tarim Oilfeild, China: Experimental and Reservoir Simulation Results. , 2016, , .		4
93	The Effects of Crossflow and Permeability Variation on Different Miscible CO2 injection Schemes Performance in Layered Sandstone Porous Media. , 2019, , .		4
94	The tyrosine phosphatase SHP-2 dephosphorylated by ALV-J via its Env efficiently promotes ALV-J replication. Virulence, 2021, 12, 1721-1731.	4.4	4
95	Development of colloidal gold-based test strip for rapid detection of serotype 4 fowl adenovirus. Journal of Virological Methods, 2021, 296, 114231.	2.1	4
96	Effect of Functional Groups on Chemical-Assisted MMP Reduction of a Methane-Oil System. Energy & Fuels, 2021, 35, 14519-14526.	5.1	3
97	Electrostatic Characterization of the â^'COOHâ€"Brineâ€"Clay System: Implications for Wettability Alteration during Low Salinity Waterflooding in Sandstone Reservoirs. Energy & Fuels, 2021, 35, 16599-16606.	5.1	3
98	Effect of reservoir pressure and total organic content on adsorbed gas production in shale reservoirs: a numerical modelling study. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	3
99	Effect of Shale Anisotropy on Hydration and Its Implications for Water Uptake. Energies, 2019, 12, 4225.	3.1	2
100	An efficient fiber-based ELISA for detection of antibody against fowl adenovirus serotypes 7 and 8. Journal of Veterinary Diagnostic Investigation, 2020, 32, 444-449.	1.1	2
101	Wettability alteration process at pore-scale during engineered waterflooding using computational fluid dynamics. Modeling Earth Systems and Environment, 2022, 8, 4219-4227.	3.4	2
102	Source Mechanism and Stress Inversion for Hydraulic Fracturing Induced Microseismicity in Glutenite Reservoir. , 2020, , .		1
103	pH effect on wettability of â€"NH+-brine-muscovite system: Implications for low salinity effect in sandstone reservoirs. Journal of Molecular Liquids, 2021, 325, 115049.	4.9	1
104	An efficient peptide-based ELISA for differentiating fowl adenovirus 4â€"infected chickens from vaccinated chickens. Journal of Veterinary Diagnostic Investigation, 2021, 33, 762-766.	1.1	1
105	Effect of Pyrite Oxidation on Flowback Water Properties During Hydraulic Fracturing in Calcite-Rich Shales. , 2020, , .		1
106	X-Ray Computed Tomography Assisted Investigation of Flow Behaviour of Miscible CO2 to Enhance Oil Recovery in Layered Sandstone Porous Media. , 2022, , .		1
107	Effect of fluid saturation and salinity on sandstone rock weakening: experimental investigations and interpretations from physicochemical perspective. Acta Geotechnica, 2023, 18, 171-186.	5.7	1
108	Evaluation of Miscible CO2 WAG/Sandstone Interactions: Emphasis on the Effect of Permeability Heterogeneity and Clay Mineral Content. , 2019, , .		0

#	Article	IF	Citations
109	1-Pentanol-Assisted Waterflooding in High Salinity Brine up to 140ÂÂ°C in Carbonate Reservoirs. Energy & Fuels, 2020, 34, 12215-12224.	5.1	0
110	Cytogenetic identification of wheat-Psathyrostachys huashanica amphiploid Ã— triticale progenies for English grain aphid resistance. Scientia Agricola, 2013, 70, 161-166.	1.2	0
111	Effect of Crossflow and Heterogeneity on CO2 Behaviour in Sandstone Oil Reservoirs. SSRN Electronic Journal, 0, , .	0.4	0
112	Impact of Mode I and Mode II Fractures on Fracture-Gas Permeability in Shale: An Experimental Study. IOP Conference Series: Earth and Environmental Science, 2020, 570, 032010.	0.3	0