

Quan Xie

List of Publications by Year in descending order

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112
papers

3,171
citations

147801

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175258

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all docs

112
docs citations

112
times ranked

1924
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of fluid saturation and salinity on sandstone rock weakening: experimental investigations and interpretations from physicochemical perspective. <i>Acta Geotechnica</i> , 2023, 18, 171-186.	5.7	1
2	Supercritical CO ₂ -Shale interaction induced natural fracture closure: Implications for scCO ₂ hydraulic fracturing in shales. <i>Fuel</i> , 2022, 313, 122682.	6.4	40
3	Effect of reservoir pressure and total organic content on adsorbed gas production in shale reservoirs: a numerical modelling study. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	3
4	FAdV-4 without Fiber-2 Is a Highly Attenuated and Protective Vaccine Candidate. <i>Microbiology Spectrum</i> , 2022, 10, e0143621.	3.0	16
5	Isolation and phylogenetic analysis of goose astrovirus type 1 from goslings with gout in Jiangxi province, China. <i>Poultry Science</i> , 2022, 101, 101800.	3.4	11
6	Wettability alteration process at pore-scale during engineered waterflooding using computational fluid dynamics. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 4219-4227.	3.4	2
7	Toward a Fundamental Understanding of Geological Hydrogen Storage. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3233-3253.	3.7	96
8	A Novel Recombinant FAdV-4 Virus with Fiber of FAdV-8b Provides Efficient Protection against Both FAdV-4 and FAdV-8b. <i>Viruses</i> , 2022, 14, 376.	3.3	15
9	X-Ray Computed Tomography Assisted Investigation of Flow Behaviour of Miscible CO ₂ to Enhance Oil Recovery in Layered Sandstone Porous Media. , 2022, , .		1
10	Effect of fluid-shale interactions on shales micromechanics: Nanoindentation experiments and interpretation from geochemical perspective. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 101, 104545.	4.4	11
11	Identification of three novel B cell epitopes in ORF2 protein of the emerging goose astrovirus and their application. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 855-863.	3.6	7
12	Thermodynamic characterization of H ₂ -brine-shale wettability: Implications for hydrogen storage at subsurface. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 22510-22521.	7.1	37
13	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
14	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
15	Chemical-assisted minimum miscibility pressure reduction between oil and methane. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 108094.	4.2	9
16	The tyrosine phosphatase SHP-2 dephosphorylated by ALV-J via its Env efficiently promotes ALV-J replication. <i>Virulence</i> , 2021, 12, 1721-1731.	4.4	4
17	Domain in Fiber-2 interacted with KPNA3/4 significantly affects the replication and pathogenicity of the highly pathogenic FAdV-4. <i>Virulence</i> , 2021, 12, 754-765.	4.4	25
18	A novel fiber-2-edited live attenuated vaccine candidate against the highly pathogenic serotype 4 fowl adenovirus. <i>Veterinary Research</i> , 2021, 52, 35.	3.0	22

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19	pH effect on wettability of NH^+ -brine-muscovite system: Implications for low salinity effect in sandstone reservoirs. <i>Journal of Molecular Liquids</i> , 2021, 325, 115049.	4.9	1
20	Experimental study of CO ₂ huff-n-puff in a tight conglomerate reservoir using true triaxial stress cell core fracturing and displacement system: A case study. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108298.	4.2	14
21	An efficient peptide-based ELISA for differentiating fowl adenovirus 4 infected chickens from vaccinated chickens. <i>Journal of Veterinary Diagnostic Investigation</i> , 2021, 33, 762-766.	1.1	1
22	Wettability alteration using benzoxazine resin: A remedy for water blockage in sandstone gas reservoirs. <i>Fuel</i> , 2021, 291, 120189.	6.4	6
23	Geochemical reactions-induced hydrogen loss during underground hydrogen storage in sandstone reservoirs. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19998-20009.	7.1	95
24	Effect of Functional Groups on Chemical-Assisted MMP Reduction of a Methane-Oil System. <i>Energy & Fuels</i> , 2021, 35, 14519-14526.	5.1	3
25	Insights into the nano-structure of oil-brine-kaolinite interfaces: Molecular dynamics and implications for enhanced oil recovery. <i>Applied Clay Science</i> , 2021, 211, 106203.	5.2	10
26	A review of chemical-assisted minimum miscibility pressure reduction in CO ₂ injection for enhanced oil recovery. <i>Petroleum</i> , 2021, 7, 245-253.	2.8	29
27	Synergistic pathogenesis of chicken infectious anemia virus and J subgroup of avian leukosis virus. <i>Poultry Science</i> , 2021, 100, 101468.	3.4	8
28	Development of colloidal gold-based test strip for rapid detection of serotype 4 fowl adenovirus. <i>Journal of Virological Methods</i> , 2021, 296, 114231.	2.1	4
29	Synergetic effect between in-situ mobility control and micro-displacement for chemical enhanced oil recovery (CEOR) of a surface-active nanofluid. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108983.	4.2	21
30	Novel preformed gel particles with controllable density and its implications for EOR in fractured-vuggy carbonated reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108903.	4.2	6
31	Integral effects of initial fluids configuration and wettability alteration on remaining saturation: characterization with X-ray micro-computed tomography. <i>Fuel</i> , 2021, 306, 121717.	6.4	8
32	Fluid-Fluid Interfacial Effects in Multiphase Flow during Carbonated Waterflooding in Sandstone: Application of X-ray Microcomputed Tomography and Molecular Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5731-5740.	8.0	7
33	Electrostatic Characterization of the COOH -Brine-Clay System: Implications for Wettability Alteration during Low Salinity Waterflooding in Sandstone Reservoirs. <i>Energy & Fuels</i> , 2021, 35, 16599-16606.	5.1	3
34	Source Mechanism and Stress Inversion for Hydraulic Fracturing Induced Microseismicity in Glutenite Reservoir. , 2020, , .		1
35	Distribution of adsorbed water in shale: An experimental study on isolated kerogen and bulk shale samples. <i>Journal of Petroleum Science and Engineering</i> , 2020, 187, 106858.	4.2	23
36	Impact of surface roughness on wettability of oil-brine-calcite system at sub-pore scale. <i>Journal of Molecular Liquids</i> , 2020, 299, 112107.	4.9	39

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37	Response of Non-Polar Oil Component on Low Salinity Effect in Carbonate Reservoirs: Adhesion Force Measurement Using Atomic Force Microscopy. <i>Energies</i> , 2020, 13, 77.	3.1	12
38	Influence of pH on Acidic Oilâ€“Brineâ€“Carbonate Adhesion Using Atomic Force Microscopy. <i>Energy & Fuels</i> , 2020, 34, 13750-13758.	5.1	6
39	OASL Triggered by Novel Goose Astrovirus via ORF2 Restricts Its Replication. <i>Journal of Virology</i> , 2020, 94, .	3.4	14
40	Detecting pH and Ca ²⁺ increase during low salinity waterflooding in carbonate reservoirs: Implications for wettability alteration process. <i>Journal of Molecular Liquids</i> , 2020, 317, 114003.	4.9	28
41	1-Pentanol-Assisted Waterflooding in High Salinity Brine up to 140Â°Â°C in Carbonate Reservoirs. <i>Energy & Fuels</i> , 2020, 34, 12215-12224.	5.1	0
42	Interpreting micromechanics of fluid-shale interactions with geochemical modelling and disjoining pressure: Implications for calcite-rich and quartz-rich shales. <i>Journal of Molecular Liquids</i> , 2020, 319, 114117.	4.9	11
43	Low-Salinity-Assisted Cationic Polyacrylamide Water Shutoff in Low-Permeability Sandstone Gas Reservoirs. <i>Energy & Fuels</i> , 2020, 34, 5524-5536.	5.1	9
44	Carbonated waterflooding in carbonate reservoirs: Experimental evaluation and geochemical interpretation. <i>Journal of Molecular Liquids</i> , 2020, 308, 113055.	4.9	5
45	Geochemical insights for CO ₂ huff-n-puff process in shale oil reservoirs. <i>Journal of Molecular Liquids</i> , 2020, 307, 112992.	4.9	5
46	Direct Evidence of Salinity and pH Effects on the Interfacial Interactions of Asphaltene-Brine-Silica Systems. <i>Molecules</i> , 2020, 25, 1214.	3.8	6
47	Gp37 Regulates the Pathogenesis of Avian Leukosis Virus Subgroup J via Its C Terminus. <i>Journal of Virology</i> , 2020, 94, .	3.4	15
48	Fiber-1, Not Fiber-2, Directly Mediates the Infection of the Pathogenic Serotype 4 Fowl Adenovirus via Its Shaft and Knob Domains. <i>Journal of Virology</i> , 2020, 94, .	3.4	31
49	Effect of the Fluidâ€“Shale Interaction on Salinity: Implications for High-Salinity Flowback Water during Hydraulic Fracturing in Shales. <i>Energy & Fuels</i> , 2020, 34, 3031-3040.	5.1	27
50	Role of brine composition on rock surface energy and its implications for subcritical crack growth in calcite. <i>Journal of Molecular Liquids</i> , 2020, 303, 112638.	4.9	14
51	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
52	An efficient fiber-based ELISA for detection of antibody against fowl adenovirus serotypes 7 and 8. <i>Journal of Veterinary Diagnostic Investigation</i> , 2020, 32, 444-449.	1.1	2
53	Impact of Mode I and Mode II Fractures on Fracture-Gas Permeability in Shale: An Experimental Study. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 570, 032010.	0.3	0
54	Effect of Pyrite Oxidation on Flowback Water Properties During Hydraulic Fracturing in Calcite-Rich Shales. , 2020, , .		1

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55	Co-infection of vvMDV with multiple subgroups of avian leukosis viruses in indigenous chicken flocks in China. <i>BMC Veterinary Research</i> , 2019, 15, 288.	1.9	16
56	Interpreting Water Uptake by Shale with Ion Exchange, Surface Complexation, and Disjoining Pressure. <i>Energy & Fuels</i> , 2019, 33, 8250-8258.	5.1	20
57	Effects of oligomers dissolved in CO ₂ or associated gas on IFT and miscibility pressure with a gas-light crude oil system. <i>Journal of Petroleum Science and Engineering</i> , 2019, 181, 106210.	4.2	13
58	Role of Basal-Charged Clays in Low Salinity Effect in Sandstone Reservoirs: Adhesion Force on Muscovite using Atomic Force Microscope. <i>Energy & Fuels</i> , 2019, 33, 756-764.	5.1	16
59	Effect of Shale Anisotropy on Hydration and Its Implications for Water Uptake. <i>Energies</i> , 2019, 12, 4225.	3.1	2
60	Wettability alteration induced water uptake in shale oil reservoirs: A geochemical interpretation for oil-brine-OM interaction during hydraulic fracturing. <i>International Journal of Coal Geology</i> , 2019, 213, 103277.	5.0	31
61	Characterization of the combined effect of high temperature and moisture on methane adsorption in shale gas reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2019, 182, 106353.	4.2	36
62	Alcohol-Assisted Waterflooding in Carbonate Reservoirs. <i>Energy & Fuels</i> , 2019, 33, 10651-10658.	5.1	7
63	Excess H ⁺ Increases Hydrophilicity during CO ₂ -Assisted Enhanced Oil Recovery in Sandstone Reservoirs. <i>Energy & Fuels</i> , 2019, 33, 814-821.	5.1	31
64	Investigation of imbibition areas during well shut-in based on mercury injection experiment and BP neural network. <i>Fuel</i> , 2019, 254, 115621.	6.4	14
65	Evaluation of Miscible CO ₂ WAG/Sandstone Interactions: Emphasis on the Effect of Permeability Heterogeneity and Clay Mineral Content. , 2019, , .		0
66	Influence of Surface Roughness on the Contact Angle due to Calcite Dissolution in an Oil-Brine-Calcite System: A Nanoscale Analysis Using Atomic Force Microscopy and Geochemical Modeling. <i>Energy & Fuels</i> , 2019, 33, 4219-4224.	5.1	24
67	Electrostatic characterization of -NH ⁺ -brine-kaolinite system: Implications for low salinity waterflooding in sandstone reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 539-545.	4.2	15
68	Insights into immiscible supercritical CO ₂ EOR: An XCT scanner assisted flow behaviour in layered sandstone porous media. <i>Journal of CO₂ Utilization</i> , 2019, 32, 187-195.	6.8	29
69	A recombination efficiently increases the pathogenesis of the novel K subgroup of avian leukosis virus. <i>Veterinary Microbiology</i> , 2019, 231, 214-217.	1.9	18
70	Insights into the wettability alteration of CO ₂ -assisted EOR in carbonate reservoirs. <i>Journal of Molecular Liquids</i> , 2019, 279, 420-426.	4.9	37
71	Analytical modelling of wettability alteration-induced micro-fractures during hydraulic fracturing in tight oil reservoirs. <i>Fuel</i> , 2019, 249, 434-440.	6.4	37
72	Low salinity water flooding in high acidic oil reservoirs: Impact of pH on wettability of carbonate reservoirs. <i>Journal of Molecular Liquids</i> , 2019, 281, 444-450.	4.9	54

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73	Effective Mechanisms to Relate Initial Rock Permeability to Outcome of Relative Permeability Modification. <i>Energies</i> , 2019, 12, 4688.	3.1	10
74	The Effects of Crossflow and Permeability Variation on Different Miscible CO ₂ injection Schemes Performance in Layered Sandstone Porous Media. , 2019, , .		4
75	Wetting Behavior of Shale Rocks and Its Relationship to Oil Composition. <i>Energy & Fuels</i> , 2019, 33, 12270-12277.	5.1	12
76	A novel linear epitope crossing Group 1 and Group 2 influenza A viruses located in the helix A of HA2 derived from H7N9. <i>Veterinary Microbiology</i> , 2019, 228, 39-44.	1.9	8
77	An Experimental Investigation of Immiscible-CO ₂ -Flooding Efficiency in Sandstone Reservoirs: Influence of Permeability Heterogeneity. <i>SPE Reservoir Evaluation and Engineering</i> , 2019, 22, 990-997.	1.8	11
78	Role of ion exchange, surface complexation, and albite dissolution in low salinity water flooding in sandstone. <i>Journal of Petroleum Science and Engineering</i> , 2019, 176, 126-131.	4.2	25
79	Effect of electrical double layer and ion exchange on low salinity EOR in a pH controlled system. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 418-424.	4.2	49
80	Identification of novel B cell epitopes in the fiber protein of serotype 8 Fowl adenovirus. <i>AMB Express</i> , 2019, 9, 172.	3.0	6
81	Drivers of low salinity effect in sandstone reservoirs. <i>Journal of Molecular Liquids</i> , 2018, 250, 396-403.	4.9	38
82	Oil/water/rock wettability: Influencing factors and implications for low salinity water flooding in carbonate reservoirs. <i>Fuel</i> , 2018, 215, 171-177.	6.4	124
83	Drivers of pH increase and implications for low salinity effect in sandstone. <i>Fuel</i> , 2018, 218, 112-117.	6.4	32
84	Electrostatic Origins of CO ₂ -Increased Hydrophilicity in Carbonate Reservoirs. <i>Scientific Reports</i> , 2018, 8, 17691.	3.3	49
85	New Approach to Alternating Thickenedâ€œUnthickened Gas Flooding for Enhanced Oil Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14637-14647.	3.7	7
86	Insight investigation of miscible SCCO ₂ Water Alternating Gas (WAG) injection performance in heterogeneous sandstone reservoirs. <i>Journal of CO₂ Utilization</i> , 2018, 28, 255-263.	6.8	32
87	Investigation of moisture effect on methane adsorption capacity of shale samples. <i>Fuel</i> , 2018, 232, 323-332.	6.4	67
88	An Experimental Investigation of Immiscible CO ₂ Flooding Efficiency in Sandstone Reservoirs: Influence of Permeability Heterogeneity. , 2018, , .		7
89	Influence of Permeability Heterogeneity on Miscible CO ₂ Flooding Efficiency in Sandstone Reservoirs: An Experimental Investigation. <i>Transport in Porous Media</i> , 2018, 125, 341-356.	2.6	21
90	Drivers of Wettability Alteration for Oil/Brine/Kaolinite System: Implications for Hydraulic Fracturing Fluids Uptake in Shale Rocks. <i>Energies</i> , 2018, 11, 1666.	3.1	16

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91	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
92	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
93	The low salinity effect at high temperatures. Fuel, 2017, 200, 419-426.	6.4	84
94	Most common surfactants employed in chemical enhanced oil recovery. Petroleum, 2017, 3, 197-211.	2.8	394
95	Fines migration during CO ₂ injection: Experimental results interpreted using surface forces. International Journal of Greenhouse Gas Control, 2017, 65, 32-39.	4.6	52
96	Drivers of Low Salinity Effect in Carbonate Reservoirs. Energy & Fuels, 2017, 31, 8951-8958.	5.1	53
97	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
98	A pH-Resolved Wettability Alteration: Implications for CO ₂ -Assisted EOR in Carbonate Reservoirs. Energy & Fuels, 2017, 31, 13593-13599.	5.1	36
99	Evaluation of the Potential of Low Salinity Water Flooding in the High Temperature and High Salinity Dong-He-Tang Reservoir in the Tarim Oilfield, China: Experimental and Reservoir Simulation Results. , 2016, , .		4
100	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
101	Application of nanotechnology for enhancing oil recovery – A review. Petroleum, 2016, 2, 324-333.	2.8	250
102	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
103	Extended DLVO-based estimates of surface force in low salinity water flooding. Journal of Molecular Liquids, 2016, 221, 658-665.	4.9	114
104	Effect of multi-component ions exchange on low salinity EOR: Coupled geochemical simulation study. Petroleum, 2016, 2, 215-224.	2.8	47
105	Low Salinity Waterflooding in Low Permeability Sandstone: Coreflood Experiments and Interpretation by Thermodynamics and Simulation. , 2015, , .		18
106	Potential Evaluation of Ion Tuning Waterflooding for a Tight Oil Reservoir in Jiyuan Oilfield: Experiments and Reservoir Simulation Results. , 2015, , .		10
107	Ions tuning water flooding experiments and interpretation by thermodynamics of wettability. Journal of Petroleum Science and Engineering, 2014, 124, 350-358.	4.2	100
108	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

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109	Cytogenetic identification of wheat-Psathyrostachys huashanica amphiploid \tilde{A} — triticales progenies for English grain aphid resistance. <i>Scientia Agricola</i> , 2013, 70, 161-166.	1.2	0
110	The Effect of Stress and Pore Pressure on Formation Permeability of Ultra-Low-Permeability Reservoir. <i>Petroleum Science and Technology</i> , 2012, 30, 1221-1231.	1.5	18
111	The effects of temperature and acid number of crude oil on the wettability of acid volcanic reservoir rock from the Hailar Oilfield. <i>Petroleum Science</i> , 2010, 7, 93-99.	4.9	22
112	Effect of Crossflow and Heterogeneity on CO2 Behaviour in Sandstone Oil Reservoirs. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0