

Zhangxing Chen

List of Publications by Year in descending order

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516
papers

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times ranked

7833
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling transient flow behavior of eccentric horizontal well in bi-zonal formation. Journal of Petroleum Science and Engineering, 2022, 208, 109261.	2.1	2
2	Analytical and numerical study of thermal and solvent-based gravity drainage for heavy oil recovery. Journal of Petroleum Science and Engineering, 2022, 208, 109214.	2.1	9
3	Multiscale pore structure characterization of an ultra-deep carbonate gas reservoir. Journal of Petroleum Science and Engineering, 2022, 208, 109751.	2.1	18
4	Numerical simulation of different-scale fracture effects on saturation distributions in waterflooding via the finite volume method. Energy, 2022, 244, 122573.	4.5	1
5	Distribution of a water film confined in inorganic nanopores in real shale gas reservoirs. Journal of Petroleum Science and Engineering, 2022, 209, 109831.	2.1	5
6	Influence of different shut-in periods after fracturing on productivity of MFHW in Duvernay shale gas formation with high montmorillonite content. Fuel, 2022, 314, 122719.	3.4	10
7	Enhanced oil recovery by emulsion injection in heterogeneous heavy oil reservoirs: Experiments, modeling and reservoir simulation. Journal of Petroleum Science and Engineering, 2022, 209, 109882.	2.1	18
8	Investigating heterogeneous distribution of fluid pressure in hydraulic fractures during pulsating hydraulic fracturing. Journal of Petroleum Science and Engineering, 2022, 209, 109823.	2.1	11
9	MD simulations of oil-in-water/water-in-oil emulsions during surfactant-steam co-injection in bitumen recovery. Fuel, 2022, 314, 122718.	3.4	20
10	Systematical study on dimethyl ether as a renewable solvent for warm VAPEX and its significant implications for the heavy oil industry. Fuel, 2022, 312, 122911.	3.4	17
11	Review of Marginal Oil Resources in Highly Depleted Reservoirs. Processes, 2022, 10, 245.	1.3	3
12	Analytical and numerical studies on a moving boundary problem of non-Newtonian Bingham fluid flow in fractal porous media. Physics of Fluids, 2022, 34, .	1.6	5
13	Vapor-liquid equilibrium (VLE) prediction for dimethyl ether (DME) and water system in DME injection process with Peng-Robinson equation of state and composition dependent binary interaction coefficient. Journal of Petroleum Science and Engineering, 2022, 211, 110172.	2.1	8
14	Effect of solvent on the adsorption behavior of asphaltene on silica surface: A molecular dynamic simulation study. Journal of Petroleum Science and Engineering, 2022, 212, 110212.	2.1	21
15	Dimethyl Ether as a Novel Solvent for Bitumen Recovery: Mechanisms of Improved Mass Transfer and Energy Efficiency. SPE Journal, 2022, 27, 1321-1340.	1.7	15
16	Meso- and Microporous Nanosheet-Constructed 3DOM Perovskites for Remarkable Photocatalytic Hydrogen Production. Advanced Functional Materials, 2022, 32, .	7.8	37
17	Mathematical model of dynamic imbibition in nanoporous reservoirs. Petroleum Exploration and Development, 2022, 49, 170-178.	3.0	7
18	Experimental Investigation on the Pore Structure Evolution of Coal in Underground Coal Gasification Process. ACS Omega, 2022, 7, 11252-11263.	1.6	2

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19	XGBoost algorithm-based prediction of safety assessment for pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 197, 104655.	1.2	25
20	Image-based model for dynamic apparent gas permeability in Organic-rich shales. <i>Fuel</i> , 2022, 318, 123588.	3.4	4
21	Local and parallel efficient BDF2 and BDF3 rotational pressure-correction schemes for a coupled Stokes/Darcy system. <i>Journal of Computational and Applied Mathematics</i> , 2022, 412, 114326.	1.1	3
22	Physical simulation of the nonlinear transient flow behavior in closed high-pressure gas reservoirs. Part II: pressure-depleted flow experiments on fractured cores. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, .	1.3	0
23	General Synthesis of Transitionâ€Metalâ€Based Carbonâ€Group Intermetallic Catalysts for Efficient Electrocatalytic Hydrogen Evolution in Wide pH Range. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	50
24	New insight to polymer transport in porous media to enhance heavy oil recovery: Lab experiment and numerical simulation. <i>Fuel</i> , 2022, 322, 124257.	3.4	7
25	A comprehensive review on the flow behaviour in shale gas reservoirs: Multiâ€scale, multiâ€phase, and multiâ€physics. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 3084-3122.	0.9	5
26	CdS-based artificial leaf for photocatalytic hydrogen evolution and simultaneous degradation of biological wastewater. <i>Chemosphere</i> , 2022, 301, 134713.	4.2	6
27	New insights into the beneficial use of coalbed-associated water: A feasibility study of co-produced water reinjection to coalbeds. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 103, 104622.	2.1	2
28	Insights into adsorption and diffusion behavior of shale oil in slit nanopores: A molecular dynamics simulation study. <i>Journal of Molecular Liquids</i> , 2022, 359, 119322.	2.3	15
29	Seismic inverse modeling method based on generative adversarial networks. <i>Journal of Petroleum Science and Engineering</i> , 2022, 215, 110652.	2.1	2
30	Numerical Modeling of Fracture Height Propagation in Multilayer Formations Considering the Plastic Zone and Induced Stress. <i>ACS Omega</i> , 2022, 7, 17868-17880.	1.6	5
31	Molecular dynamics simulation of oil detachment from hydrophobic quartz surfaces during steam-surfactant Co-injection. <i>Energy</i> , 2022, 254, 124434.	4.5	24
32	CO2 enhanced gas recovery and sequestration as CO2 hydrate in shallow gas fields in Alberta, Canada. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 103, 104654.	2.1	5
33	Study of novel steam assisted gravity drainage multilateral wells with dynamic gridding. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110789.	2.1	4
34	Synergistic Effects of Weak Alkalineâ€Surfactantâ€Polymer and SiO ₂ Nanoparticles Flooding on Enhanced Heavy Oil Recovery. <i>Energy & Fuels</i> , 2022, 36, 7402-7413.	2.5	10
35	Using Blue Hydrogen to Decarbonize Heavy Oil and Oil Sands Operations in Canada. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 10003-10013.	3.2	4
36	A relative permeability model considering nanoconfinement and dynamic contact angle effects for tight reservoirs. <i>Energy</i> , 2022, 258, 124846.	4.5	6

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37	Intelligent Petroleum Engineering. Engineering, 2022, 18, 27-32.	3.2	4
38	Dynamic behavior of miscible binary fluid mixtures in nanopores: Implications for CO ₂ -enhanced oil flow in shale reservoirs. Fuel, 2022, 327, 125128.	3.4	8
39	Superconvergence in H ₁ -norm of a difference finite element method for the heat equation in a 3D spatial domain with almost-uniform mesh. Numerical Algorithms, 2021, 86, 357-395.	1.1	4
40	Discontinuous finite volume element method for Darcy flows in fractured porous media. Journal of Computational and Applied Mathematics, 2021, 381, 113025.	1.1	8
41	An integrated approach to characterize hydraulic fracturing-induced seismicity in shale reservoirs. Journal of Petroleum Science and Engineering, 2021, 196, 107624.	2.1	27
42	A novel experimental investigation on the occurrence state of fluids in microscale pores of tight reservoirs. Journal of Petroleum Science and Engineering, 2021, 196, 107656.	2.1	19
43	Comprehensive molecular scale modeling of anionic surfactant-asphaltene interactions. Fuel, 2021, 288, 119729.	3.4	59
44	The increased viscosity effect for fracturing fluid imbibition in shale. Chemical Engineering Science, 2021, 232, 116352.	1.9	10
45	Redistribution of fracturing fluid in shales and its impact on gas transport capacity. Journal of Natural Gas Science and Engineering, 2021, 86, 103747.	2.1	20
46	Enhancing hot water flooding in hydrate bearing layers through a novel staged production method. Energy, 2021, 217, 119319.	4.5	13
47	Determination of CH ₄ , C ₂ H ₆ and CO ₂ adsorption in shale kerogens coupling sorption-induced swelling. Chemical Engineering Journal, 2021, 410, 127690.	6.6	31
48	Capillary dynamics of confined water in nanopores: The impact of precursor films. Chemical Engineering Journal, 2021, 409, 128113.	6.6	10
49	Physical simulation of the nonlinear transient flow behavior in closed high-pressure gas reservoirs. Part I: Pressure-depleted flow experiments on matrix cores. Journal of Petroleum Science and Engineering, 2021, 196, 108063.	2.1	3
50	Impact of water film on methane surface diffusion in gas shale organic nanopores. Journal of Petroleum Science and Engineering, 2021, 196, 108045.	2.1	12
51	Effect of Surface Force on Nanoconfined Shale-Gas Flow in Slit Channels. SPE Journal, 2021, 26, 448-460.	1.7	2
52	Assessment of extended Derjaguin–Landau–Verwey–Overbeek-based water film on multiphase transport behavior in shale microfractures. AIChE Journal, 2021, 67, e17162.	1.8	2
53	<i>n</i> -decane diffusion in carbon nanotubes with vibration. Journal of Chemical Physics, 2021, 154, 074505.	1.2	2
54	Model for Interfacial Tension of Nanoconfined Lennard-Jones Fluid. Energy & Fuels, 2021, 35, 4044-4052.	2.5	3

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55	Impact of the Water Adsorption Monolayer on Methane Ad-/Desorption Behavior in Gas Shale Nanopores. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3130-3141.	1.8	8
56	Coproduction of hydrogen and lactic acid from glucose photocatalysis on band-engineered Zn _{1-x} Cd _x S homojunction. <i>IScience</i> , 2021, 24, 102109.	1.9	61
57	A Critical Review of Enhanced Oil Recovery by Imbibition: Theory and Practice. <i>Energy & Fuels</i> , 2021, 35, 5643-5670.	2.5	44
58	QPG-dominated transient flow behavior of a well in a subsurface formation. <i>Journal of Hydrology</i> , 2021, 594, 125939.	2.3	4
59	Investigation on the Controlling Factors of Pressure Wave Propagation Behavior Induced by Pulsating Hydraulic Fracturing. <i>SPE Journal</i> , 2021, 26, 2716-2735.	1.7	16
60	Effect of Dynamic Contact Angle on Spontaneous Capillary-Liquid-Liquid Imbibition by Molecular Kinetic Theory. <i>SPE Journal</i> , 2021, , 1-16.	1.7	10
61	Investigation of enhancing coal permeability with high-temperature treatment. <i>Fuel</i> , 2021, 290, 120082.	3.4	18
62	A Critical Review of Reservoir Simulation Applications in Key Thermal Recovery Processes: Lessons, Opportunities, and Challenges. <i>Energy & Fuels</i> , 2021, 35, 7387-7405.	2.5	21
63	Stress-sensitive permeability of matrix cores and artificially fractured cores with nonproppant-filled fractures under high-pressure conditions. <i>Geophysics</i> , 2021, 86, M59-M75.	1.4	2
64	Quantitative evaluation of transport efficiency of fault-reservoir composite migration pathway systems in carbonate petroliferous basins. <i>Energy</i> , 2021, 222, 119983.	4.5	15
65	Investigation on Two M _w 3.6 and M _w 4.1 Earthquakes Triggered by Poroelastic Effects of Hydraulic Fracturing Operations Near Crooked Lake, Alberta. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020308.	1.4	15
66	Review on space energy. <i>Applied Energy</i> , 2021, 292, 116896.	5.1	35
67	Pore structure characterization of tight sandstones via a novel integrated method: A case study of the Sulige gas field, Ordos Basin (Northern China). <i>Journal of Asian Earth Sciences</i> , 2021, 213, 104739.	1.0	23
68	Effect of Wetting Hysteresis on Fluid Flow in Shale Oil Reservoirs. <i>Energy & Fuels</i> , 2021, 35, 12075-12082.	2.5	5
69	A second-order fractional time-stepping method for a coupled Stokes/Darcy system. <i>Journal of Computational and Applied Mathematics</i> , 2021, 390, 113329.	1.1	5
70	New Model of Relative Permeability for Two-Phase Flow in Mixed-Wet Nanoporous Media of Shale. <i>Energy & Fuels</i> , 2021, 35, 12045-12055.	2.5	4
71	Adaptive generalized multiscale approximation of a mixed finite element method with velocity elimination. <i>Computational Geosciences</i> , 2021, 25, 1681-1708.	1.2	2
72	Comparison of different machine learning algorithms for predicting the SAGD production performance. <i>Journal of Petroleum Science and Engineering</i> , 2021, 202, 108559.	2.1	26

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73	Generalized multiscale approximation of a mixed finite element method with velocity elimination for Darcy flow in fractured porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 381, 113846.	3.4	7
74	Polymer Flooding in Heterogeneous Heavy Oil Reservoirs: Experimental and Simulation Studies. <i>Polymers</i> , 2021, 13, 2636.	2.0	8
75	Generalized multiscale approximation of a multipoint flux mixed finite element method for Darcy–Forchheimer model. <i>Journal of Computational and Applied Mathematics</i> , 2021, 391, 113466.	1.1	6
76	Plasmon enhanced glucose photoreforming for arabinose and gas fuel co-production over 3DOM TiO ₂ -Au. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120055.	10.8	47
77	CURVATURE AND TEMPERATURE EFFECT ON n-DECANE TRANSPORT IN NARROW CARBON NANOTUBES. <i>WIT Transactions on Engineering Sciences</i> , 2021, , .	0.0	0
78	Gas storage and transport in porous media: From shale gas to helium-3. <i>Planetary and Space Science</i> , 2021, 204, 105283.	0.9	5
79	Integrated Simulation for Hydraulic Fracturing, Productivity Prediction, and Optimization in Tight Conglomerate Reservoirs. <i>Energy & Fuels</i> , 2021, 35, 14658-14670.	2.5	11
80	Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. <i>ChemSusChem</i> , 2021, 14, 4636-4657.	3.6	28
81	Nanostructured Metal Borides for Energy-Related Electrocatalysis: Recent Progress, Challenges, and Perspectives. <i>Small Methods</i> , 2021, 5, e2100699.	4.6	47
82	Modeling transient flow behavior with the high velocity non-Darcy effect in composite naturally fractured-homogeneous gas reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104269.	2.1	11
83	Simple formulas for prediction of the sizes of worm-like and globular micelles in symmetrical electrolyte solutions. <i>Journal of Molecular Liquids</i> , 2021, 343, 117393.	2.3	4
84	Numerical modeling of fluid flow in tight oil reservoirs considering complex fracturing networks and Pre-Darcy flow. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109050.	2.1	9
85	Evaluation of Aqueous Phase Trapping in Shale Gas Reservoirs Based on Analytic Hierarchy Process. <i>Energy & Fuels</i> , 2021, 35, 1389-1397.	2.5	7
86	Pore-Scale Movability Evaluation for Tight Oil Enhanced Oil Recovery Methods Based on Miniature Core Test and Digital Core Construction. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2625-2633.	1.8	8
87	Macroscale experiments for hybrid enhanced oil recovery processes. <i>Developments in Petroleum Science</i> , 2021, 73, 249-275.	0.2	0
88	Introduction to hybrid enhanced oil recovery processes. <i>Developments in Petroleum Science</i> , 2021, , 1-46.	0.2	2
89	Pore-Scale Investigation of Waterflooding Based on Experiments and Numerical Simulations Considering the Change in Geometry and Wettability. <i>Energy & Fuels</i> , 2021, 35, 17617-17628.	2.5	7
90	Spotlight onto surfactant–steam–bitumen interfacial behavior via molecular dynamics simulation. <i>Scientific Reports</i> , 2021, 11, 19660.	1.6	26

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91	Role of Fluid Diffusivity in the Spatiotemporal Migration of Induced Earthquakes during Hydraulic Fracturing in Unconventional Reservoirs. <i>Energy & Fuels</i> , 2021, 35, 17685-17697.	2.5	8
92	Development of a Scalable Thermal Reservoir Simulator on Distributed-Memory Parallel Computers. <i>Fluids</i> , 2021, 6, 395.	0.8	2
93	Parallel Implementation of the Deterministic Ensemble Kalman Filter for Reservoir History Matching. <i>Processes</i> , 2021, 9, 1980.	1.3	0
94	NiO-TiO ₂ p-n Heterojunction for Solar Hydrogen Generation. <i>Catalysts</i> , 2021, 11, 1427.	1.6	12
95	Numerical simulation of bitumen recovery via supercritical water injection with in-situ upgrading. <i>Fuel</i> , 2021, 313, 122708.	3.4	10
96	A priori and a posteriori estimates of stabilized mixed finite volume methods for the incompressible flow arising in arteriosclerosis. <i>Journal of Computational and Applied Mathematics</i> , 2020, 363, 35-52.	1.1	8
97	H ¹ superconvergence of finite difference method based on Q ₁ element on quasi-uniform mesh for the 3D Poisson equation. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 29-48.	2.0	3
98	A fully discrete virtual element scheme for the Cahn-Hilliard equation in mixed form. <i>Computer Physics Communications</i> , 2020, 246, 106870.	3.0	14
99	Numerical simulations of polymer flooding process in porous media on distributed-memory parallel computers. <i>Journal of Computational Physics</i> , 2020, 400, 108995.	1.9	5
100	Practical application of machine learning on fast phase equilibrium calculations in compositional reservoir simulations. <i>Journal of Computational Physics</i> , 2020, 401, 109013.	1.9	25
101	Field-Scale Modeling of Hybrid Steam and In-Situ-Combustion Recovery Process in Oil-Sands Reservoirs Using Dynamic Gridding. <i>SPE Reservoir Evaluation and Engineering</i> , 2020, 23, 311-325.	1.1	19
102	Thermal-hydro-chemical-mechanical alteration of coal pores in underground coal gasification. <i>Fuel</i> , 2020, 262, 116543.	3.4	29
103	AI based mechanistic modeling and probabilistic forecasting of hybrid low salinity chemical flooding. <i>Fuel</i> , 2020, 261, 116445.	3.4	18
104	The role of fines transport in low salinity waterflooding and hybrid recovery processes. <i>Fuel</i> , 2020, 263, 116542.	3.4	24
105	Pore-scale experimental study on EOR mechanisms of combining thermal and chemical flooding in heavy oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106649.	2.1	40
106	A Scalable Parallel In-Situ Combustion Reservoir Simulator for Large Scale Models. , 2020, , .		0
107	Challenges and future of chemical assisted heavy oil recovery processes. <i>Advances in Colloid and Interface Science</i> , 2020, 275, 102081.	7.0	77
108	Well modelling methods in thermal reservoir simulation. <i>Oil and Gas Science and Technology</i> , 2020, 75, 63.	1.4	7

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109	A property-dependent Perfectly Matched Layer with a single additional layer for Maxwell's equations in finite difference frequency domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113355.	3.4	1
110	Parameters selection for experiment on aqueous phase trapping damage in shale gas reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 83, 103551.	2.1	10
111	Numerical Simulation of Gas Mobility Control by Chemical Additives Injection and Foam Generation during Steam Assisted Gravity Drainage (SAGD). <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-15.	1.2	2
112	Interfacial and molecular interactions between fractions of heavy oil and surfactants in porous media: Comprehensive review. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102242.	7.0	46
113	Multiphase flow model from pores to cores in organic-rich shale. <i>Journal of Petroleum Science and Engineering</i> , 2020, 194, 107317.	2.1	14
114	Impact of surface chemistry and pore structure on water vapor adsorption behavior in gas shale. <i>Chemical Engineering Journal</i> , 2020, 402, 126238.	6.6	37
115	Molecular dynamics computations of brine-CO ₂ /CH ₄ -shale contact angles: Implications for CO ₂ sequestration and enhanced gas recovery. <i>Fuel</i> , 2020, 280, 118590.	3.4	32
116	Surface charging parameters of charged particles in symmetrical electrolyte solutions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20123-20142.	1.3	6
117	Evaluation of Shale-Gas-Phase Behavior under Nanoconfinement in Multimechanistic Flow. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15048-15057.	1.8	9
118	Vapor-Liquid Equilibria and Diffusion of CO ₂ /n-Decane Mixture in the Nanopores of Shale Reservoirs. , 2020, , .		1
119	Flow Rate Profile Interpretation for a Two-Phase Flow in Multistage Fractured Horizontal Wells by Inversion of DTS Data. <i>ACS Omega</i> , 2020, 5, 21728-21744.	1.6	2
120	Estimating the Fracturing Fluid Recovery in Shale Gas Reservoirs: Experiments and Field Data Analysis. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7851-7861.	1.7	3
121	Molecular-scale friction at a water-graphene interface and its relationship with slip behavior. <i>Physics of Fluids</i> , 2020, 32, .	1.6	7
122	Analysis of the Influence of Different Fracture Network Structures on the Production of Shale Gas Reservoirs. <i>Geofluids</i> , 2020, 2020, 1-11.	0.3	3
123	Confined Behavior of Hydrocarbon Fluids in Heterogeneous Nanopores by the Potential Theory. , 2020, , .		0
124	Molecular Interactions between Asphaltene and Surfactants in a Hydrocarbon Solvent: Application to Asphaltene Dispersion. <i>Symmetry</i> , 2020, 12, 1767.	1.1	31
125	Quasi-Continuum Water Flow under Nanoconfined Conditions: Coupling the Effective Viscosity and the Slip Length. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20504-20514.	1.8	3
126	Experimental investigation of the pore shape factor in fluid imbibition model—taking the Longmaxi shale in Sichuan Basin as examples. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107327.	2.1	15

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127	Will the future of shale reservoirs lie in CO ₂ geological sequestration?. Science China Technological Sciences, 2020, 63, 1154-1163.	2.0	7
128	Investigation of enhancing multi-gas transport ability of coalbed methane reservoir by oxidation treatment. Fuel, 2020, 278, 118377.	3.4	16
129	Comprehensive modeling of multiple transport mechanisms in shale gas reservoir production. Fuel, 2020, 277, 118159.	3.4	17
130	Chemical insight into nano-catalytic in-situ upgrading and recovery of heavy oil. Fuel, 2020, 278, 118270.	3.4	25
131	A fractal model for gas-water relative permeability curve in shale rocks. Journal of Natural Gas Science and Engineering, 2020, 81, 103417.	2.1	28
132	Discontinuous finite volume element method for a coupled Navier-Stokes-Cahn-Hilliard phase field model. Advances in Computational Mathematics, 2020, 46, 1.	0.8	15
133	Production decline analysis of shale gas based on a probability density distribution function. Journal of Geophysics and Engineering, 2020, 17, 365-376.	0.7	8
134	Effects of helium adsorption in carbon nanopores on apparent void volumes and excess methane adsorption isotherms. Fuel, 2020, 270, 117499.	3.4	15
135	Matrix-fracture transfer shape factor for modeling multimechanistic multicomponent shale gas flow. International Journal of Heat and Mass Transfer, 2020, 158, 120022.	2.5	3
136	Dynamic wetting of solid-liquid-liquid system by molecular kinetic theory. Journal of Colloid and Interface Science, 2020, 579, 470-478.	5.0	11
137	Machine learning-based models for predicting permeability impairment due to scale deposition. Journal of Petroleum Exploration and Production, 2020, 10, 2873-2884.	1.2	42
138	Changes in retained fracturing fluid properties and their effect on shale mechanical properties. Journal of Natural Gas Science and Engineering, 2020, 75, 103163.	2.1	38
139	Improved methods for determining effective sandstone reservoirs and evaluating hydrocarbon enrichment in petroliferous basins. Applied Energy, 2020, 261, 114457.	5.1	34
140	Experimental investigation on the steam injection profile along horizontal wellbore. Energy Reports, 2020, 6, 264-271.	2.5	32
141	Insight into the Interfacial Behavior of Surfactants and Asphaltenes: Molecular Dynamics Simulation Study. Energy & Fuels, 2020, 34, 13536-13551.	2.5	53
142	Impacts of pore size distribution on gas injection in intraformational water zones in oil sands reservoirs. Oil and Gas Science and Technology, 2020, 75, 75.	1.4	22
143	A virtual element method for the Cahn-Hilliard problem in mixed form. Applied Mathematics Letters, 2019, 87, 115-124.	1.5	12
144	Characteristics and control mechanism of nanoscale pores in lacustrine tight carbonates: Examples from the Jurassic Da'anzhai Member in the central Sichuan Basin, China. Journal of Asian Earth Sciences, 2019, 178, 156-172.	1.0	15

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145	Enhanced Recovery of Heavy Oil by a Nano-Catalytic In-Situ Upgrading Process. , 2019, , .		7
146	Investigation radii in multi-zone composite reservoirs. Journal of Petroleum Science and Engineering, 2019, 182, 106262.	2.1	9
147	In Situ Sequestration of a Hydraulic Fracturing Fluid in Longmaxi Shale Gas Formation in the Sichuan Basin. Energy & Fuels, 2019, 33, 6983-6994.	2.5	18
148	Feasibility of carbon dioxide storage in post-burn underground coal gasification cavities. Applied Energy, 2019, 252, 113479.	5.1	20
149	The discrete duality finite volume method for a class of quasi-Newtonian Stokes flows. Numerical Methods for Partial Differential Equations, 2019, 35, 2193-2220.	2.0	0
150	CO2 sequestration coupled with enhanced gas recovery in shale gas reservoirs. Journal of CO2 Utilization, 2019, 34, 646-655.	3.3	68
151	A linear, stabilized, non-spatial iterative, partitioned time stepping method for the nonlinear Navier-Stokes/Navier-Stokes interaction model. Boundary Value Problems, 2019, 2019, .	0.3	6
152	Development of a New Parallel Polymer Flooding Simulator for Conventional and Naturally Fractured Reservoirs. , 2019, , .		0
153	A virtual element method for the coupled Stokes-Darcy problem with the Beaver-Joseph-Saffman interface condition. Calcolo, 2019, 56, 1.	0.6	10
154	On the Negative Excess Isotherms for Methane Adsorption at High Pressure: Modeling and Experiment. SPE Journal, 2019, 24, 2504-2525.	1.7	12
155	NANOSCALE PORE SIZE DISTRIBUTION EFFECTS ON GAS PRODUCTION FROM FRACTAL SHALE ROCKS. Fractals, 2019, 27, 1950142.	1.8	41
156	Numerical Simulation of Two-phase Flow in Naturally Fractured Reservoirs Using Dual Porosity Method on Parallel Computers. , 2019, , .		1
157	Roles of multicomponent adsorption and geomechanics in the development of an Eagle Ford shale condensate reservoir. Fuel, 2019, 242, 710-718.	3.4	18
158	Numerical investigation of the mechanisms in co-injection of steam and enriched air process using combustion tube tests. Fuel, 2019, 242, 638-648.	3.4	20
159	Image-based core-scale real gas apparent permeability from pore-scale experimental data in shale reservoirs. Fuel, 2019, 254, 115596.	3.4	34
160	Effects of energetic heterogeneity on gas adsorption and gas storage in geologic shale systems. Applied Energy, 2019, 251, 113368.	5.1	58
161	Machine learning models to predict bottom hole pressure in multi-phase flow in vertical oil production wells. Canadian Journal of Chemical Engineering, 2019, 97, 2928-2940.	0.9	34
162	Ultrahigh Water Flow Enhancement by Optimizing Nanopore Chemistry and Geometry. Langmuir, 2019, 35, 8867-8873.	1.6	26

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163	Nanoconfinement Effect on <i>n</i> -Alkane Flow. Journal of Physical Chemistry C, 2019, 123, 16456-16461.	1.5	43
164	Effects of wellbore interference on concurrent gas production from multi-layered tight sands: A case study in eastern Ordos Basin, China. Journal of Petroleum Science and Engineering, 2019, 179, 707-715.	2.1	16
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