Chengyuan Xu

List of Publications by Year
in descending order

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		331670	395702
38	1,120	21	33
papers	citations	h-index	g-index

39	39	39	488
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review on formation damage mechanisms and processes in shale gas reservoir: Known and to be known. Journal of Natural Gas Science and Engineering, 2016, 36, 1208-1219.	4.4	137
2	Comprehensive evaluation of formation damage induced by working fluid loss in fractured tight gas reservoir. Journal of Natural Gas Science and Engineering, 2014, 18, 353-359.	4.4	77
3	Lost-Circulation Control for Formation-Damage Prevention in Naturally Fractured Reservoir: Mathematical Model and Experimental Study. SPE Journal, 2017, 22, 1654-1670.	3.1	75
4	Temporary sealing technology to control formation damage induced by drill-in fluid loss in fractured tight gas reservoir. Journal of Natural Gas Science and Engineering, 2014, 20, 67-73.	4.4	56
5	Stochastic modelling of particulate suspension transport for formation damage prediction in fractured tight reservoir. Fuel, 2018, 221, 476-490.	6.4	52
6	Critical Conditions for Massive Fines Detachment Induced by Single-Phase Flow in Coalbed Methane Reservoirs: Modeling and Experiments. Energy & Fuels, 2017, 31, 6782-6793.	5.1	51
7	Friction coefficient: A significant parameter for lost circulation control and material selection in naturally fractured reservoir. Energy, 2019, 174, 1012-1025.	8.8	50
8	Analytical model of plugging zone strength for drill-in fluid loss control and formation damage prevention in fractured tight reservoir. Journal of Petroleum Science and Engineering, 2017, 149, 686-700.	4.2	49
9	Structural failure mechanism and strengthening method of fracture plugging zone for lost circulation control in deep naturally fractured reservoirs. Petroleum Exploration and Development, 2020, 47, 430-440.	7.0	44
10	Fracture plugging optimization for drill-in fluid loss control and formation damage prevention in fractured tight reservoir. Journal of Natural Gas Science and Engineering, 2016, 35, 1216-1227.	4.4	40
11	An Experimental Study on Porosity and Permeability Stress-Sensitive Behavior of Sandstone Under Hydrostatic Compression: Characteristics, Mechanisms and Controlling Factors. Rock Mechanics and Rock Engineering, 2018, 51, 2321-2338.	5.4	40
12	Constructing a tough shield around the wellbore: Theory and method for lost-circulation control. Petroleum Exploration and Development, 2014, 41, 520-527.	7.0	39
13	Drill-in fluid loss mechanisms in brittle gas shale: A case study in the Longmaxi Formation, Sichuan Basin, China. Journal of Petroleum Science and Engineering, 2019, 174, 394-405.	4.2	34
14	A novel material evaluation method for lost circulation control and formation damage prevention in deep fractured tight reservoir. Energy, 2020, 210, 118574.	8.8	34
15	Physical plugging of lost circulation fractures at microscopic level. Fuel, 2022, 317, 123477.	6.4	34
16	Fracture plugging zone for lost circulation control in fractured reservoirs: Multiscale structure and structure characterization methods. Powder Technology, 2020, 370, 159-175.	4.2	29
17	Experimental investigation on size degradation of bridging material in drilling fluids. Powder Technology, 2019, 342, 54-66.	4.2	28
18	Structural formation and evolution mechanisms of fracture plugging zone. Petroleum Exploration and Development, 2021, 48, 232-242.	7.0	28

#	Article	IF	Citations
19	Mesoscopic structure characterization of plugging zone for lost circulation control in fractured reservoirs based on photoelastic experiment. Journal of Natural Gas Science and Engineering, 2020, 79, 103339.	4.4	25
20	Dynamic fracture width prediction for lost circulation control and formation damage prevention in ultra-deep fractured tight reservoir. Fuel, 2022, 307, 121770.	6.4	25
21	Prevention of fracture propagation to control drill-in fluid loss in fractured tight gas reservoir. Journal of Natural Gas Science and Engineering, 2014, 21, 425-432.	4.4	22
22	Impact of drilling fluids on friction coefficient of brittle gas shale. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 144-152.	5.8	21
23	Optimizing the particle size distribution of drill-in fluids based on fractal characteristics of porous media and solid particles. Journal of Petroleum Science and Engineering, 2018, 171, 1223-1231.	4.2	21
24	Reconstruction and prediction of capillary pressure curve based on Particle Swarm Optimization-Back Propagation Neural Network method. Petroleum, 2018, 4, 268-280.	2.8	19
25	Stress-sensitivity mechanisms and its controlling factors of saline-lacustrine fractured tight carbonate reservoir. Journal of Natural Gas Science and Engineering, 2021, 88, 103864.	4.4	16
26	A coupled CFD-DEM simulation of fracture sealing: Effect of lost circulation material, drilling fluid and fracture conditions. Fuel, 2022, 322, 124212.	6.4	13
27	Comprehensive prediction of dynamic fracture width for formation damage control in fractured tight gas reservoir. International Journal of Oil, Gas and Coal Technology, 2015, 9, 296.	0.2	12
28	Formation damage mechanisms in tight carbonate reservoirs: The typical illustrations in Qaidam Basin and Sichuan Basin, China. Journal of Natural Gas Science and Engineering, 2021, 95, 104193.	4.4	10
29	A coupled CFD-DEM numerical simulation of formation and evolution of sealing zones. Journal of Petroleum Science and Engineering, 2022, 208, 109765.	4.2	9
30	An Engineered Formation-Damage-Control Drill-In Fluid Technology for Deep-Fractured Tight-Sandstone Oil Reservoir in Northern Tarim Basin. SPE Drilling and Completion, 2020, 35, 026-037.	1.6	8
31	Multiscale Formation Damage Mechanisms and Control Technology for Deep Tight Clastic Gas Reservoirs. SPE Journal, 2021, , 1-16.	3.1	7
32	Impact of friction coefficient on the mesoscale structure evolution under shearing of granular plugging zone. Powder Technology, 2021, 394, 133-148.	4.2	6
33	Experimental study on the controlling factors of frictional coefficient for lost circulation control and formation damage prevention in deep fractured tight reservoir. Petroleum, 2021, , .	2.8	4
34	Characterization on Temporal Evolution of Porosity, Permeability, and Reactive Specific Surface Based on Fractal Model During Mineral Dissolution. Geophysical Research Letters, 2020, 47, e2020GL090263.	4.0	3
35	Investigation on the Transport and Capture Behaviours of Lost Circulation Material in Fracture with Rough Surface. , 2019, , .		2
36	Mathematical Model and Experimental Study on Drill-In Fluid Loss Control and Formation Damage Prevention in Fractured Tight Reservoir. , 2016, , .		0

#	Article	IF	Citations
37	Experimental Study on Surface Frictional Behavior of Materials for Lost Circulation Control in Deep Naturally Fractured Reservoir. , 2019, , .		0
38	Experimental Study on Surface Frictional Behavior of Materials for Lost Circulation Control in Deep Naturally Fractured Reservoir. , 2019, , .		0