

# Jihua Cai

## List of Publications by Year in descending order

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840776

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docs citations

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238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving wellbore stability of shale by adjusting its wettability. Journal of Petroleum Science and Engineering, 2018, 161, 692-702.	4.2	51
2	Environmental-friendly salt water mud with nano-SiO <sub>2</sub> in horizontal drilling for shale gas. Journal of Petroleum Science and Engineering, 2017, 156, 408-418.	4.2	48
3	Effects of L-glutamic acid, N, N-diacetic acid as chelating agent on acidification of carbonate reservoirs in acidic environments. Journal of Natural Gas Science and Engineering, 2020, 82, 103494.	4.4	34
4	Influence of salt solutions on the permeability, membrane efficiency and wettability of the Lower Silurian Longmaxi shale in Xiushan, Southwest China. Applied Clay Science, 2018, 158, 83-93.	5.2	31
5	Decreasing Coalbed Methane Formation Damage Using Microfoamed Drilling Fluid Stabilized by Silica Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-11.	2.7	19
6	CFD and DEM modelling of particles plugging in shale pores. Energy, 2019, 174, 1026-1038.	8.8	19
7	Chelating agent-introduced unconventional compound acid for enhancing coal permeability. Journal of Petroleum Science and Engineering, 2021, 199, 108270.	4.2	19
8	Experimental study of the pomelo peel powder as novel shale inhibitor in water-based drilling fluids. Energy Exploration and Exploitation, 2020, 38, 569-588.	2.3	18
9	Nanoparticle plugging prediction of shale pores: A numerical and experimental study. Energy, 2020, 208, 118337.	8.8	17
10	Modeling of nanoparticle fluid microscopic plugging effect on horizontal and vertical wellbore of shale gas. Energy, 2022, 239, 122130.	8.8	14
11	2D Numerical Simulation of Improving Wellbore Stability in Shale Using Nanoparticles Based Drilling Fluid. Energies, 2017, 10, 651.	3.1	13
12	Enhancing wellbore stability of coal measure strata by electrical inhibition and wettability control. Journal of Petroleum Science and Engineering, 2019, 174, 544-552.	4.2	11
13	Design and Evaluation of a Surfactant-Modified Mixed Metal Hydroxide-Based Drilling Fluid for Maintaining Wellbore Stability in Coal Measure Strata. Energies, 2019, 12, 1862.	3.1	10
14	Dissolution behaviour of different rank coals in L-glutamic acid, N-diacetic acid chelating agent: Implications to enhance coalbed methane recovery by acid stimulation. Canadian Journal of Chemical Engineering, 2022, 100, 1285-1297.	1.7	6
15	Experimental study on water-based drilling fluid for horizontal wells. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-20.	2.3	4
16	A method of determining osmotic pressure for low-clay shale with different salt ions considering effect of dynamic permeability on flow. Engineering Geology, 2021, 295, 106434.	6.3	4
17	Empirical Correlation to Predict Viscosity Breaking Ratio of Guar-Based Biodegradable Drilling Fluid. , 2010, , .		1