

# Jinsheng Sun

## List of Publications by Year in descending order

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46  
papers

1,090  
citations

361045

20  
h-index

454577

30  
g-index

46  
all docs

46  
docs citations

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times ranked

460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Laponite as a Potential Shale Inhibitor in Water-Based Drilling Fluid for Stabilization of Wellbore Stability and Mechanism Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33252-33259.	4.0	100
2	Synthesis of a novel environment-friendly filtration reducer and its application in water-based drilling fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 284-293.	2.3	68
3	Enhancement of thermal stability of drilling fluid using laponite nanoparticles under extreme temperature conditions. <i>Materials Letters</i> , 2019, 248, 146-149.	1.3	57
4	Preparation of a novel amphiphilic comb-like terpolymer as viscosifying additive in low-solid drilling fluid. <i>Materials Letters</i> , 2013, 105, 232-235.	1.3	52
5	A novel nano-lignin-based amphoteric copolymer as fluid-loss reducer in water-based drilling fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123979.	2.3	49
6	Synthesis of hydrophobic associative polymers to improve the rheological and filtration performance of drilling fluids under high temperature and high salinity conditions. <i>Journal of Petroleum Science and Engineering</i> , 2022, 209, 109808.	2.1	47
7	Oxygen vacancy BiO <sub>2-x</sub> /Bi <sub>2</sub> WO <sub>6</sub> synchronous coupling with Bi metal for phenol removal via visible and near-infrared light irradiation. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 342-353.	5.0	43
8	Salt-Responsive Zwitterionic Polymer Brush Based on Modified Silica Nanoparticles as a Fluid-Loss Additive in Water-Based Drilling Fluids. <i>Energy &amp; Fuels</i> , 2020, 34, 1669-1679.	2.5	41
9	Inhibition of the Hydration Expansion of Sichuan Gas Shale by Adsorption of Compounded Surfactants. <i>Energy &amp; Fuels</i> , 2019, 33, 6020-6026.	2.5	38
10	Oxygen-Vacancy-Rich BiO <sub>2-x</sub> /Ag <sub>3</sub> PO <sub>4</sub> /CNT Composite for Polycyclic Aromatic Hydrocarbons (PAHs) Removal via Visible and Near-Infrared Light Irradiation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5725-5735.	1.8	37
11	Water-Based Drilling Fluid Containing Bentonite/Poly(Sodium 4-Styrenesulfonate) Composite for Ultrahigh-Temperature Ultradeep Drilling and Its Field Performance. <i>SPE Journal</i> , 2020, 25, 1193-1203.	1.7	31
12	Salt-responsive zwitterionic copolymer as tackifier in brine drilling fluids. <i>Journal of Molecular Liquids</i> , 2020, 319, 114345.	2.3	29
13	Temperature- and Salt-Resistant Micro-Crosslinked Polyampholyte Gel as Fluid-Loss Additive for Water-Based Drilling Fluids. <i>Gels</i> , 2022, 8, 289.	2.1	28
14	Environmentally friendly and salt-responsive polymer brush based on lignin nanoparticle as fluid-loss additive in water-based drilling fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 621, 126482.	2.3	27
15	A Novel Environment-Friendly Natural Extract for Inhibiting Shale Hydration. <i>Energy &amp; Fuels</i> , 2019, 33, 7118-7126.	2.5	26
16	Magnetic-responsive CNT/chitosan composite as stabilizer and adsorbent for organic contaminants and heavy metal removal. <i>Journal of Molecular Liquids</i> , 2021, 334, 116087.	2.3	25
17	Achieving the Super Gas-Wetting Alteration by Functionalized Nano-Silica for Improving Fluid Flowing Capacity in Gas Condensate Reservoirs. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10996-11006.	4.0	24
18	Self-healing hydrogels and their action mechanism in oil&gas drilling and development engineering: A systematic review and prospect. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104250.	2.1	24

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19	Effects of Modified Cellulose on Methane Hydrate Decomposition: Experiments and Molecular Dynamics Simulations. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9689-9697.	3.2	22
20	Synthesis of a new high temperature and salt resistant zwitterionic filtrate reducer and its application in water-based drilling fluid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 651, 129730.	2.3	22
21	Modified Biosurfactant Cationic Alkyl Polyglycoside as an Effective Additive for Inhibition of Highly Reactive Shale. <i>Energy &amp; Fuels</i> , 2020, 34, 1680-1687.	2.5	21
22	Hydrophobic-associated polymer-based laponite nanolayered silicate composite as filtrate reducer for water-based drilling fluid at high temperature. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48608.	1.3	20
23	Tough and self-healing hydrophobic association hydrogels with cationic surfactant. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50645.	1.3	20
24	Modified Nanopolystyrene as a Plugging Agent for Oil-Based Drilling Fluids Applied in Shale Formation. <i>Energy &amp; Fuels</i> , 2021, 35, 16543-16552.	2.5	18
25	Status and Prospect of Drilling Fluid Loss and Lost Circulation Control Technology in Fractured Formation. <i>Gels</i> , 2022, 8, 260.	2.1	18
26	Development of key additives for organoclay-free oil-based drilling mud and system performance evaluation. <i>Petroleum Exploration and Development</i> , 2018, 45, 764-769.	3.0	17
27	Gas-Wetting Alteration by Fluorochemicals and Its Application for Enhancing Gas Recovery in Gas-Condensate Reservoirs: A Review. <i>Energies</i> , 2020, 13, 4591.	1.6	17
28	Experimental Study on Physicochemical Properties of a Shear Thixotropic Polymer Gel for Lost Circulation Control. <i>Gels</i> , 2022, 8, 229.	2.1	15
29	A laboratory study of self-healing hydrophobic association gels used as lost circulation material. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 646, 128964.	2.3	13
30	An Inverse Emulsion Polymer as a Highly Effective Salt- and Calcium-Resistant Fluid Loss Reducer in Water-Based Drilling Fluids. <i>ACS Omega</i> , 2022, 7, 16141-16151.	1.6	13
31	Recent Advances in Methods of Gas Recovery from Hydrate-Bearing Sediments: A Review. <i>Energy &amp; Fuels</i> , 2022, 36, 5550-5593.	2.5	13
32	A novel film-forming silicone polymer as shale inhibitor for water-based drilling fluids. <i>E-Polymers</i> , 2019, 19, 574-578.	1.3	11
33	A novel zwitterionic quaternary copolymer as a fluid-loss additive for water-based drilling fluids. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, 1-14.	1.2	11
34	Effects of a crosslinking agent on a supramolecular gel to control lost circulation. <i>New Journal of Chemistry</i> , 2021, 45, 7089-7095.	1.4	11
35	Synthesis of a novel cationic hydrophobic shale inhibitor with preferable wellbore stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 637, 128274.	2.3	11
36	Organosilicate polymer as high temperature Resistent inhibitor for water-based drilling fluids. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	10

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37	Wettability alteration to maintain wellbore stability of shale formation using hydrophobic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 635, 128015.	2.3	10
38	Effect of Drilling Fluid Invasion on Natural Gas Hydrate Near-Well Reservoirs Drilling in a Horizontal Well. <i>Energies</i> , 2021, 14, 7075.	1.6	9
39	Experimental study on an oil-absorbing resin used for lost circulation control during drilling. <i>Journal of Petroleum Science and Engineering</i> , 2022, 214, 110557.	2.1	8
40	A Temperature-Sensitive Polymeric Rheology Modifier Used in Water-Based Drilling Fluid for Deepwater Drilling. <i>Gels</i> , 2022, 8, 338.	2.1	8
41	Experimental study on an oil-based polymer gel for lost circulation control in high-temperature fractured formation. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51763.	1.3	7
42	Novel Use of a Superhydrophobic Nanosilica Performing Wettability Alteration and Plugging in Water-Based Drilling Fluids for Wellbore Strengthening. <i>Energy &amp; Fuels</i> , 2022, 36, 6144-6158.	2.5	6
43	Effect of Dissolution and Dispersion Conditions of VC-713 on the Hydrate Inhibition. <i>Journal of Chemistry</i> , 2019, 2019, 1-10.	0.9	5
44	Research on the rheological and flow characteristics of a supramolecular gel in fractures. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50823.	1.3	3
45	Role of chemical cementation and hydration inhibition on wellbore stability in hydrate bearing sediment: Experimental and molecular dynamics simulation studies. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 104, 104619.	2.1	3
46	Synthesis and properties of a high-performance environment-friendly micro-nano filtration reducer. <i>RSC Advances</i> , 2020, 10, 43204-43212.	1.7	2