Mohamed A Mahmoud

List of Publications by Year
in descending order

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302	6,071	100601	175968
papers	citations	38	55
		h-index	g-index

302	302	302	2469
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetic and thermodynamic modelling of thermal decomposition of bitumen under high pressure enhanced with simulated annealing and artificial intelligence. Canadian Journal of Chemical Engineering, 2022, 100, 1126-1140.	0.9	3
2	Effect of Treatment Conditions on Matrix Stimulation of Carbonate Rocks with Chelating Agents. Arabian Journal for Science and Engineering, 2022, 47, 11055-11068.	1.7	5
3	Rheological study of CO2 foamed chelating stimulation fluids under harsh reservoir conditions. Journal of Petroleum Science and Engineering, 2022, 208, 109201.	2.1	8
4	Reservoir Formation Damage; Reasons and Mitigation: A Case Study of the Cambrianâ€“Ordovician Nubian â€˜Câ€™ Sandstone Gas and Oil Reservoir from the Gulf of Suez Rift Basin. Arabian Journal for Science and Engineering, 2022, 47, 11279-11296.	1.7	21
5	Multiscale storage and transport modeling in unconventional shale gas: A review. Journal of Petroleum Science and Engineering, 2022, 208, 109518.	2.1	28
6	A rock core wettability index using NMR T measurements. Journal of Petroleum Science and Engineering, 2022, 208, 109386.	2.1	21
7	Sandstone matrix stimulation. , 2022, , 341-386.		2
8	Gas adsorption and reserve estimation for conventional and unconventional gas resources. , 2022, , 345-382.		23
9	Statistical Methods to Improve the Quality of Real-Time Drilling Data. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	4
10	Artificial Intelligence-Based Model of Mineralogical Brittleness Index Based on Rock Elemental Compositions. Arabian Journal for Science and Engineering, 2022, 47, 11745-11761.	1.7	8
11	Feature Ranking and Modeling of Mineral Effects on Reservoir Rock Surface Chemistry Using Smart Algorithms. ACS Omega, 2022, 7, 4194-4201.	1.6	2
12	Effects of the Reservoir Environment and Oilfield Operations on the Iron Mineral Surface Charge Development: An Insight into Their Role in Wettability Alteration. Energy & Fuels, 2022, 36, 1676-1687.	2.5	5
13	A Review of Advanced Molecular Engineering Approaches to Enhance the Thermostability of Enzyme Breakers: From Prospective of Upstream Oil and Gas Industry. International Journal of Molecular Sciences, 2022, 23, 1597.	1.8	4
14	Triple mesh methods and their application to two-phase flow in porous media. Journal of Petroleum Science and Engineering, 2022, 212, 110252.	2.1	0
15	Tar mitigation using insitu heat generation chemicals (part I): A comparative study. Journal of Petroleum Science and Engineering, 2022, 212, 110258.	2.1	2
16	Machine learning approach to predict the dynamic linear swelling of shales treated with different waterbased drilling fluids. Fuel, 2022, 315, 123282.	3.4	19
17	A Modified Contact Angle Measurement Process to Suppress Oil Drop Spreading and Improve Precision. Molecules, 2022, 27, 1195.	1.7	4
18	Clay Swelling Mitigation During Fracturing Operations Using Novel Magnetic Surfactants. , 2022, , .		3

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19	Rheological Optimization of CO2 Foamed Chelating Stimulation Fluids at High-Pressure, High-Temperature, and Salinity. , 2022, , .		3
20	Improved Viscosity Model for Bitumen-Solvent Binary Mixtures. , 2022, , .		0
21	Study of the Mechanical Behavior of Organic Matters Contained in Source Rocks: New Insights into the Role of Bitumen. ACS Omega, 2022, 7, 7024-7031.	1.6	2
22	Taking a New Approach Towards Chelating Agents for Scale Removal. , 2022, , .		0
23	Molecular dynamics of <scp>CH₄</scp>/<scp>CO₂</scp> on calcite for enhancing gas recovery. Canadian Journal of Chemical Engineering, 2022, 100, 3184-3195.	0.9	2
24	A review on the applications of nuclear magnetic resonance (NMR) in the oil and gas industry: laboratory and field-scale measurements. Journal of Petroleum Exploration and Production, 2022, 12, 2747-2784.	1.2	43
25	Model Synthetic Samples for Validation of NMR Signal Simulations. Transport in Porous Media, 2022, 142, 623-639.	1.2	5
26	The Synergetic Impact of Anionic, Cationic, and Neutral Polymers on VES Rheology at High-Temperature Environment. Polymers, 2022, 14, 1145.	2.0	9
27	Effect of Native Reservoir State and Oilfield Operations on Clay Mineral Surface Chemistry. Molecules, 2022, 27, 1739.	1.7	7
28	Ionic Liquids as Clay Swelling Inhibitors: Adsorption Study. Energy & Fuels, 2022, 36, 3596-3605.	2.5	12
29	Carbonate Stimulation Using Chelating Agents: Improving the Treatment Performance by Optimizing the Fluid Properties. ACS Omega, 2022, 7, 8938-8949.	1.6	7
30	Application of Nanoparticles in Stimulation: A Review. Energy & Fuels, 2022, 36, 4276-4296.	2.5	7
31	Okra mucilage as environment friendly and non-toxic shale swelling inhibitor in water based drilling fluids. Fuel, 2022, 320, 123868.	3.4	27
32	A systematic review of Anhydrite-Bearing Reservoirs: EOR Perspective, CO2-Geo-storage and future research. Fuel, 2022, 320, 123942.	3.4	27
33	Enhancing the Oil Recovery from Naturally Fractured Reservoirs Using Viscoelastic Surfactant (VES) Flooding: A Field-Scale Simulation. ACS Omega, 2022, 7, 504-517.	1.6	7
34	Pore Volume Characteristics of Clay-Rich Shale: Critical Insight into the Role of Clay Types, Aluminum and Silicon Concentration. Arabian Journal for Science and Engineering, 2022, 47, 12013-12029.	1.7	1
35	Investigation of Surface Charge at the Mineral/Brine Interface: Implications for Wettability Alteration. Frontiers in Materials, 2022, 9, .	1.2	4
36	Evaluation of the Dynamic Interfacial Tension between Viscoelastic Surfactant Solutions and Oil Using Porous Micromodels. Langmuir, 2022, 38, 6387-6394.	1.6	4

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37	Carbon mineralization and geological storage of CO2 in basalt: Mechanisms and technical challenges. Earth-Science Reviews, 2022, 229, 104036.	4.0	79
38	Ionic liquids as completion fluids to mitigate formation damage. Journal of Petroleum Science and Engineering, 2022, 214, 110564.	2.1	5
39	Accelerated low-temperature oxidation for sand consolidation and production control. Journal of Petroleum Science and Engineering, 2022, 214, 110567.	2.1	1
40	Fluidâ€“rock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. Energy Reports, 2022, 8, 6355-6395.	2.5	30
41	A review of Pakistani shales for shale gas exploration and comparison to North American shale plays. Energy Reports, 2022, 8, 6423-6442.	2.5	29
42	Minimizing the Barite Scale in Carbonate Formations during the Filter Cake Removal Process. ACS Omega, 2022, 7, 17976-17983.	1.6	2
43	Adsorption Mechanisms of a Novel Cationic Gemini Surfactant onto Different Rocks. Energy & Fuels, 2022, 36, 5737-5748.	2.5	24
44	Thermodynamic characterization of H2-brine-shale wettability: Implications for hydrogen storage at subsurface. International Journal of Hydrogen Energy, 2022, 47, 22510-22521.	3.8	37
45	Multicomponent Gas Adsorption Behavior of Kerogen: A Molecular Investigation. Energy & Fuels, 2022, 36, 6695-6710.	2.5	7
46	Wettability Alteration of Carbonate Rock by Chelating Agents and Viscoelastic Surfactants: Synergetic Impact. Energy & Fuels, 2022, 36, 7391-7401.	2.5	7
47	Effect of acid treatment on the geomechanical properties of rocks: an experimental investigation in Ahdeb oil field. Journal of Petroleum Exploration and Production, 2022, 12, 3425-3441.	1.2	8
48	Single-Stage Stimulation of Anhydrite-Rich Carbonate Rocks Using Chelating Agent: An Experimental and Modeling Investigation. SPE Journal, 2021, 26, 1144-1160.	1.7	10
49	CO2 enhanced gas recovery and sequestration in depleted gas reservoirs: A review. Journal of Petroleum Science and Engineering, 2021, 196, 107685.	2.1	125
50	A Novel Method of Removing Emulsion Blockage after Drilling Operations Using Thermochemical Fluid. SPE Drilling and Completion, 2021, 36, 88-100.	0.9	7
51	Asphaltene precipitation and deposition: A critical review. Journal of Petroleum Science and Engineering, 2021, 197, 107956.	2.1	70
52	Experimental Investigation of Noble Viscoelastic Surfactant and Chelating Agent for Heavy Oil <scp>Enhanced Oil Recovery</scp> in <scp>Highâ€Pressureâ€“Highâ€Temperature</scp> Carbonate Reservoirs. Journal of Surfactants and Detergents, 2021, 24, 289-300.	1.0	16
53	Self-destructive barite filter cake in water-based and oil-based drilling fluids. Journal of Petroleum Science and Engineering, 2021, 197, 107963.	2.1	9
54	Impact of Iron Minerals in Promoting Wettability Alterations in Reservoir Formations. ACS Omega, 2021, 6, 4022-4033.	1.6	21

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55	Chelating Agents as Acid-Fracturing Fluids: Experimental and Modeling Studies. Energy & Fuels, 2021, 35, 2602-2618.	2.5	21
56	Numerical and Experimental Study to Determine the Permeability Anisotropy in Porous Rocks from Probe Permeameter Measurements. Arabian Journal for Science and Engineering, 2021, 46, 7019-7030.	1.7	1
57	Rapid Determination of Emulsion Stability Using Turbidity Measurement Incorporating Artificial Neural Network (ANN): Experimental Validation Using Video/Optical Microscopy and Kinetic Modeling. ACS Omega, 2021, 6, 5910-5920.	1.6	23
58	Novel Expandable Cement System for Prevention of Sustained Casing Pressure and Minimization of Lost Circulation. ACS Omega, 2021, 6, 4950-4957.	1.6	3
59	Impact of clays on CO2 adsorption and enhanced gas recovery in sandstone reservoirs. International Journal of Greenhouse Gas Control, 2021, 106, 103286.	2.3	15
60	Relative contribution of wettability Alteration and interfacial tension reduction in EOR: A critical review. Journal of Molecular Liquids, 2021, 325, 115175.	2.3	56
61	Surface Charge Investigation of Reservoir Rock Minerals. Energy & Fuels, 2021, 35, 6003-6021.	2.5	25
62	Cationic gemini surfactants containing biphenyl spacer as shale swelling inhibitor. Journal of Molecular Liquids, 2021, 325, 115164.	2.3	25
63	Machine Learning-Based Improved Pressureâ€“Volumeâ€“Temperature Correlations for Black Oil Reservoirs. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	22
64	A comprehensive review of proppant transport in fractured reservoirs: Experimental, numerical, and field aspects. Journal of Natural Gas Science and Engineering, 2021, 88, 103832.	2.1	44
65	An Artificial Intelligence-Based Model for Performance Prediction of Acid Fracturing in Naturally Fractured Reservoirs. ACS Omega, 2021, 6, 13654-13670.	1.6	15
66	New Technique for Evaluating Fracture Geometry and Preferential Orientation Using Pulsed Field Gradient Nuclear Magnetic Resonance. SPE Journal, 2021, , 1-14.	1.7	7
67	Thermochemical-Pulse Fracturing of Tight Gas: Investigation of Pulse Loading on Fracturing Behavior. , 2021, , .		2
68	Impact of Multi-Branched Ionic Liquid on Shale Swelling and Hydration for High Temperature Drilling Applications. , 2021, , .		2
69	A Surface Charge Approach to Investigating the Influence of Oil Contacting Clay Minerals on Wettability Alteration. ACS Omega, 2021, 6, 12841-12852.	1.6	26
70	Chelating Agents Usage in Optimization of Fracturing Fluid Rheology Prepared from Seawater. Polymers, 2021, 13, 2111.	2.0	18
71	A Data-Driven Machine Learning Approach to Predict the Natural Gas Density of Pure and Mixed Hydrocarbons. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	3
72	Dicationic Surfactants as an Additive in Fracturing Fluids to Mitigate Clay Swelling: A Petrophysical and Rock Mechanical Assessment. ACS Omega, 2021, 6, 15867-15877.	1.6	13

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73	Evolving strategies for shear wave velocity estimation: smart and ensemble modeling approach. Neural Computing and Applications, 2021, 33, 17147-17159.	3.2	13
74	Impact of Asphaltene Precipitation and Deposition on Wettability and Permeability. ACS Omega, 2021, 6, 20091-20102.	1.6	38
75	Impact of Chelating Agent Salt Type on the Enhanced Oil Recovery from Carbonate and Sandstone Reservoirs. Applied Sciences (Switzerland), 2021, 11, 7109.	1.3	9
76	Reduction of Breakdown Pressure by Filter Cake Removal Using Thermochemical Fluids and Solvents: Experimental and Numerical Studies. Molecules, 2021, 26, 4407.	1.7	3
77	Machine Learning-Based Propped Fracture Conductivity Correlations of Several Shale Formations. ACS Omega, 2021, 6, 18782-18792.	1.6	11
78	Thermal maturation, mineral catalysis, and gas generation kinetics of carbonate source rock. Journal of Natural Gas Science and Engineering, 2021, 92, 104003.	2.1	6
79	Application of Anhydrous Calcium Sulfate as a Weighting Agent in Oil-Based Drilling Fluids. ACS Omega, 2021, 6, 21690-21701.	1.6	9
80	Experimental Investigation of the Rheological Behavior of an Oil-Based Drilling Fluid with Rheology Modifier and Oil Wetter Additives. Molecules, 2021, 26, 4877.	1.7	20
81	Optimum Selection of H₂S Scavenger in Light-Weight and Heavy-Weight Water-Based Drilling Fluids. ACS Omega, 2021, 6, 24919-24930.	1.6	15
82	A systematic review of data science and machine learning applications to the oil and gas industry. Journal of Petroleum Exploration and Production, 2021, 11, 4339-4374.	1.2	51
83	Review of Iron Sulfide Scale Removal and Inhibition in Oil and Gas Wells: Current Status and Perspectives. Energy & Fuels, 2021, 35, 14401-14421.	2.5	14
84	Mitigation of Gas Condensate Banking Using Thermochemical Fluids and Gemini Surfactant: A Comparison Study. , 2021, , .		0
85	Okra as an environment-friendly fluid loss control additive for drilling fluids: Experimental & modeling studies. Journal of Petroleum Science and Engineering, 2021, 204, 108743.	2.1	25
86	Ab-Initio Molecular Dynamics investigation of gas adsorption on Î±-quartz (001) for CO2 enhanced natural gas recovery. Journal of Petroleum Science and Engineering, 2021, 205, 108963.	2.1	2
87	An experimental study on the effect of magnetic field strength and internal gradient on NMR-Derived petrophysical properties of sandstones. Journal of Petroleum Science and Engineering, 2021, 205, 108811.	2.1	20
88	The impact of pore structure and adsorption behavior on kerogen tortuosity. Fuel, 2021, 303, 121261.	3.4	32
89	Development of Viscosified Acid-Surfactant Solutions for Oilfield Applications: Rheological Properties. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	2
90	Anhydrite (Calcium Sulfate) Mineral as a Novel Weighting Material in Drilling Fluids. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	13

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91	Productivity Enhancement in Multilayered Unconventional Rocks Using Thermochemicals. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	14
92	Characterization of Fluid Drainage Mechanism at Core and Pore Scales: an NMR Capillary Pressureâ€“Based Saturation Exponent Prediction. , 2021, , .		3
93	Demulsification of Heavy Petroleum Emulsion Using Pyridinium Ionic Liquids with Distinct Anion Branching. Energy & Fuels, 2021, 35, 16527-16533.	2.5	16
94	New Treatment for Improving the Productivity of Shale Reservoirs Using Thermochemical Fluids. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	3
95	Development of Oil and Gas Stimulation Fluids Based on Polymers and Recycled Produced Water. Polymers, 2021, 13, 4017.	2.0	4
96	Comparative Study of Fracture Conductivity in Various Carbonate Rocks Treated with GLDA Chelating Agent and HCl Acid. Energy & Fuels, 2021, 35, 19641-19654.	2.5	24
97	Modification of Xanthan Gum for a High-Temperature and High-Salinity Reservoir. Polymers, 2021, 13, 4212.	2.0	25
98	Development of Novel Shale Swelling Inhibitors Using Hydrophobic Ionic Liquids and Gemini Surfactants for Water-Based Drilling Fluids. , 2021, , .		6
99	The Measurement of Tortuosity of Porous Media Using Imaging, Electrical Measurements, and Pulsed Field Gradient NMR. , 2021, , .		0
100	Optimizing Seawater Based Fracture Fluids Rheology Utilizing Chelating Agents. , 2021, , .		6
101	An Investigation of the Swelling Kinetics of Bentonite Systems Using Particle Size Analysis. Journal of Dispersion Science and Technology, 2020, 41, 817-827.	1.3	14
102	Real-time prognosis of flowing bottom-hole pressure in a vertical well for a multiphase flow using computational intelligence techniques. Journal of Petroleum Exploration and Production, 2020, 10, 1411-1428.	1.2	23
103	A theoretical study of gas adsorption on calcite for CO2 enhanced natural gas recovery. Applied Surface Science, 2020, 504, 144575.	3.1	28
104	An experimental study to reduce the breakdown pressure of the unconventional carbonate rock by cyclic injection of thermochemical fluids. Journal of Petroleum Science and Engineering, 2020, 187, 106859.	2.1	29
105	A New Method To Evaluate Reaction Kinetics of Acids with Carbonate Rocks Using NMR Diffusion Measurements. Energy & Fuels, 2020, 34, 787-797.	2.5	12
106	A preliminary assessment of thermochemical fluid for heavy oil recovery. Journal of Petroleum Science and Engineering, 2020, 186, 106702.	2.1	15
107	An intelligent data-driven model for Deanâ€“Stark water saturation prediction in carbonate rocks. Neural Computing and Applications, 2020, 32, 11919-11935.	3.2	14
108	Mass and Heat Transfer of Thermochemical Fluids in a Fractured Porous Medium. Molecules, 2020, 25, 4179.	1.7	7

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109	Evaluation of Clay Hydration and Swelling Inhibition Using Quaternary Ammonium Dicationic Surfactant with Phenyl Linker. Molecules, 2020, 25, 4333.	1.7	23
110	Imidazolium-Based Ionic Liquids as Clay Swelling Inhibitors: Mechanism, Performance Evaluation, and Effect of Different Anions. ACS Omega, 2020, 5, 26682-26696.	1.6	53
111	Two-Stage Stimulation of Gas Carbonate Reservoirs with High Anhydrite Content: Experimental and Modeling Study. Energy & Fuels, 2020, 34, 9978-9989.	2.5	8
112	Applications of Chelating Agents in the Upstream Oil and Gas Industry: A Review. Energy & Fuels, 2020, 34, 15593-15613.	2.5	49
113	Dissolution Kinetics of Different Inorganic Oilfield Scales in Green Formulations. ACS Omega, 2020, 5, 29963-29970.	1.6	1
114	Condensate-Banking Removal and Gas-Production Enhancement Using Thermochemical Injection: A Field-Scale Simulation. Processes, 2020, 8, 727.	1.3	7
115	Thermochemical acid fracturing of tight and unconventional rocks: Experimental and modeling investigations. Journal of Natural Gas Science and Engineering, 2020, 83, 103606.	2.1	18
116	Complex barite filter cake removal using in-situ generated acids by thermochemicals. Scientific Reports, 2020, 10, 15773.	1.6	6
117	Poly(Oxyethylene)-amidoamine Based Gemini Cationic Surfactants with Hydrophilic Spacers as Clay Stabilizers. Energy & Fuels, 2020, 34, 10619-10630.	2.5	27
118	Miscible Fluid Displacement in Rock Cores Evaluated with NMR T2 Relaxation Time Measurements. Industrial & Engineering Chemistry Research, 2020, 59, 18280-18289.	1.8	6
119	A State-of-The-Art Technology to Reduce Fracturing Pressure in Tight Gas Formations Using Thermochemical Pulse. , 2020, , .		4
120	Development of New Rheological Models for Class G Cement with Nanoclay as an Additive Using Machine Learning Techniques. ACS Omega, 2020, 5, 17646-17657.	1.6	16
121	Review of Acid Diffusion Measurement Methods in Porous Media. Energy & Fuels, 2020, 34, 11916-11941.	2.5	7
122	Polyoxyethylene Quaternary Ammonium Gemini Surfactants as a Completion Fluid Additive to Mitigate Formation Damage. SPE Drilling and Completion, 2020, 35, 696-706.	0.9	17
123	Effect of Kerogen Thermal Maturity on Methane Adsorption Capacity: A Molecular Modeling Approach. Molecules, 2020, 25, 3764.	1.7	39
124	Effects of Foam Microbubbles on Electrical Resistivity and Capillary Pressure of Partially Saturated Porous Media. Molecules, 2020, 25, 3385.	1.7	13
125	Shale rock core analysis using NMR: Effect of bitumen and water content. Journal of Petroleum Science and Engineering, 2020, 195, 107847.	2.1	20
126	Data-Driven Approaches to Predict Thermal Maturity Indices of Organic Matter Using Artificial Neural Networks. ACS Omega, 2020, 5, 26169-26181.	1.6	15

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127	Experimental Investigation of a Novel, Efficient, and Sustainable Hybrid Silicate System in Oil and Gas Well Cementing. Energy & Fuels, 2020, 34, 7388-7396.	2.5	17
128	Studies of interaction between bitumen and thermochemical fluid (TCF): Insights from experiment and molecular dynamics simulations. Applied Surface Science, 2020, 527, 146942.	3.1	8
129	Effects of Nanoclay and Silica Flour on the Mechanical Properties of Class G Cement. ACS Omega, 2020, 5, 11643-11654.	1.6	20
130	<scp>Thermoâ€economic</scp>comparative analysis of<scp>solarâ€assisted</scp>and carbon capture integrated conventional cogeneration plant of power and process steam. International Journal of Energy Research, 2020, 44, 8455-8479.	2.2	9
131	Experimental and numerical analysis of using thermochemical injection for preheating to improve in-situ combustion of bitumen. Fuel, 2020, 275, 117894.	3.4	13
132	Performance analysis of thermochemical fluids in removing the gas condensate from different gas formations. Journal of Natural Gas Science and Engineering, 2020, 78, 103333.	2.1	6
133	Enhance the Gas Productivity for Shale Gas Reservoirs Using Thermochemical Treatment. , 2020, , .		2
134	Stimulating illitic sandstone reservoirs using in-situ generated HF with the aid of thermochemicals. Journal of Petroleum Science and Engineering, 2020, 190, 107089.	2.1	12
135	The Effect of Clay Content on the Spinâ€“Spin NMR Relaxation Time Measured in Porous Media. ACS Omega, 2020, 5, 6545-6555.	1.6	25
136	A Novel Approach to Improve Acid Diversion in Carbonate Rocks Using Thermochemical Fluids: Experimental and Numerical Study. Molecules, 2020, 25, 2976.	1.7	12
137	Novel Treatment for Mitigating Condensate Bank Using a Newly Synthesized Gemini Surfactant. Molecules, 2020, 25, 3030.	1.7	7
138	Sandstone acidizing using a new retarded acid system based on gemini surfactants. Journal of Petroleum Science and Engineering, 2020, 194, 107459.	2.1	16
139	Application of a Novel and Sustainable Silicate Solution as an Alternative to Sodium Silicate for Clay Swelling Inhibition. ACS Omega, 2020, 5, 17405-17415.	1.6	34
140	Data-Driven Acid Fracture Conductivity Correlations Honoring Different Mineralogy and Etching Patterns. ACS Omega, 2020, 5, 16919-16931.	1.6	16
141	Novel Approach for Sandstone Acidizing Using in Situ-Generated Hydrofluoric Acid with the Aid of Thermochemicals. ACS Omega, 2020, 5, 1188-1197.	1.6	9
142	Investigation into Emulsion Blockage Removal Using Thermochemical Fluid. , 2020, , .		1
143	Effect of Formation Cuttingâ€™s Mechanical Properties on Drilling Fluid Properties During Drilling Operations. Arabian Journal for Science and Engineering, 2020, 45, 7763-7772.	1.7	9
144	Novel Approach for Improving the Flow of Waxy Crude Oil Using Thermochemical Fluids: Experimental and Simulation Study. ACS Omega, 2020, 5, 4313-4321.	1.6	21

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145	Carbon dioxide EGR and sequestration in mature and immature shale: Adsorption study. Journal of Petroleum Science and Engineering, 2020, 188, 106923.	2.1	12
146	A theoretical study of gas adsorption on Î±-quartz (0Â0Â1) for CO2 enhanced natural gas recovery. Applied Surface Science, 2020, 525, 146472.	3.1	10
147	An integrated workflow to perform reservoir and completion parametric study on a shale gas reservoir. Journal of Petroleum Exploration and Production, 2020, 10, 1497-1510.	1.2	2
148	Quaternary ammonium gemini surfactants having different spacer length as clay swelling inhibitors: Mechanism and performance evaluation. Journal of Molecular Liquids, 2020, 308, 113054.	2.3	38
149	Impacts of natural fractures on acid fracture design: A modeling study. Energy Reports, 2020, 6, 1073-1082.	2.5	15
150	Clay Swelling Inhibition Using Novel Cationic Gemini Surfactants with Different Spacers. Journal of Surfactants and Detergents, 2020, 23, 963-972.	1.0	9
151	H₂S Scavenging Capacity and Rheological Properties of Water-Based Drilling Muds. ACS Omega, 2020, 5, 30729-30739.	1.6	16
152	An Environment Friendly Approach to Reduce the Breakdown Pressure of High Strength Unconventional Rocks by Cyclic Hydraulic Fracturing. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	25
153	Sandstone Acidizing Using a Low-Reaction Acid System. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	9
154	Numerical Study of Enhanced Oil Recovery Using In Situ Oxy-Combustion in a Porous Combustion Tube. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	3
155	A Comprehensive Review of Thermal Enhanced Oil Recovery: Techniques Evaluation. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	97
156	Water blockage removal and productivity index enhancement by injecting thermochemical fluids in tight sandstone formations. Journal of Petroleum Science and Engineering, 2019, 182, 106298.	2.1	22
157	Viscosityâ€“Temperatureâ€“Pressure Relationship of Extra-Heavy Oil (Bitumen): Empirical Modelling versus Artificial Neural Network (ANN). Energies, 2019, 12, 2390.	1.6	13
158	Quantitative Tortuosity Measurements of Carbonate Rocks Using Pulsed Field Gradient NMR. Transport in Porous Media, 2019, 130, 847-865.	1.2	22
159	Effect of rock mineralogy on Hot-CO2 injection for enhanced gas recovery. Journal of Natural Gas Science and Engineering, 2019, 72, 103030.	2.1	19
160	Upgrading Calcium Bentonite to Sodium Bentonite Using Seawater and Soda Ash. Energy & Fuels, 2019, 33, 10888-10894.	2.5	10
161	In situ steam and nitrogen gas generation by thermochemical fluid Injection: A new approach for heavy oil recovery. Energy Conversion and Management, 2019, 202, 112203.	4.4	19
162	An Experimental Study to Reduce the Fracture Pressure of High Strength Rocks Using a Novel Thermochemical Fracturing Approach. Geofluids, 2019, 2019, 1-16.	0.3	21

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163	Comparative Analysis of Static and Dynamic Mechanical Behavior for Dry and Saturated Cement Mortar. Materials, 2019, 12, 3299.	1.3	7
164	Mitigation of Condensate Banking Using Thermochemical Treatment: Experimental and Analytical Study. Energies, 2019, 12, 800.	1.6	11
165	Kinetics of Thermal Decomposition of Tar in the Presence of Air and Nitrogen Gas. Energy & Fuels, 2019, 33, 10167-10175.	2.5	9
166	An Artificial Intelligence Approach to Predict the Water Saturation in Carbonate Reservoir Rocks. , 2019, , .		13
167	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T2) in sandstone rocks. Journal of Petroleum Science and Engineering, 2019, 175, 985-997.	2.1	49
168	Gas Production from Gas Condensate Reservoirs Using Sustainable Environmentally Friendly Chemicals. Sustainability, 2019, 11, 2838.	1.6	7
169	Integration of field, laboratory, and modeling aspects of acid fracturing: A comprehensive review. Journal of Petroleum Science and Engineering, 2019, 181, 106158.	2.1	73
170	Investigation into the effect of silica nanoparticles on the rheological characteristics of water-in-heavy oil emulsions. Petroleum Science, 2019, 16, 1374-1386.	2.4	12
171	Well Clean-Up Using a Combined Thermochemical/Chelating Agent Fluids. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	20
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