

Jitendra Shital Sangwai

List of Publications by Year in descending order

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161
papers

5,421
citations

71102

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docs citations

161
times ranked

3002
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of CuO and ZnO nanofluids in xanthan gum on thermal, electrical and high pressure rheology of water-based drilling fluids. Journal of Petroleum Science and Engineering, 2014, 117, 15-27.	4.2	250
2	Silica Nanofluids in an Oilfield Polymer Polyacrylamide: Interfacial Properties, Wettability Alteration, and Applications for Chemical Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2016, 55, 12387-12397.	3.7	180
3	Thermal stability of oil-in-water Pickering emulsion in the presence of nanoparticle, surfactant, and polymer. Journal of Industrial and Engineering Chemistry, 2015, 22, 324-334.	5.8	147
4	Formation and Dissociation Kinetics of Methane Hydrates in Seawater and Silica Sand. Energy & Fuels, 2014, 28, 2708-2716.	5.1	132
5	Effect of a novel clay/silica nanocomposite on water-based drilling fluids: Improvements in rheological and filtration properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 339-350.	4.7	119
6	Energy recovery from simulated clayey gas hydrate reservoir using depressurization by constant rate gas release, thermal stimulation and their combinations. Applied Energy, 2018, 225, 755-768.	10.1	117
7	A study on the influence of nanofluids on gas hydrate formation kinetics and their potential: Application to the CO ₂ capture process. Journal of Natural Gas Science and Engineering, 2016, 32, 95-108.	4.4	101
8	Comparative effectiveness of production performance of Pickering emulsion stabilized by nanoparticle-surfactant-polymer over surfactant-polymer (SP) flooding for enhanced oil recovery for Brownfield reservoir. Journal of Petroleum Science and Engineering, 2015, 129, 221-232.	4.2	97
9	Formation and characterization of thermal and electrical properties of CuO and ZnO nanofluids in xanthan gum. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 37-43.	4.7	96
10	Effect of Nanofluids of CuO and ZnO in Polyethylene Glycol and Polyvinylpyrrolidone on the Thermal, Electrical, and Filtration-Loss Properties of Water-Based Drilling Fluids. SPE Journal, 2016, 21, 405-415.	3.1	94
11	Kinetics of methane hydrate formation in an aqueous solution of thermodynamic promoters (THF and) Tj ETQq1 1 0.784314 rgBT /Over 35, 1519-1534.	4.4	91
12	Silica nanofluids in polyacrylamide with and without surfactant: Viscosity, surface tension, and interfacial tension with liquid paraffin. Journal of Petroleum Science and Engineering, 2017, 152, 575-585.	4.2	91
13	Effect of silica sand size on the formation kinetics of CO ₂ hydrate in porous media in the presence of pure water and seawater relevant for CO ₂ sequestration. Journal of Petroleum Science and Engineering, 2014, 122, 1-9.	4.2	90
14	Kinetics of methane hydrate formation in the presence of activated carbon and nano-silica suspensions in pure water. Journal of Natural Gas Science and Engineering, 2015, 26, 810-818.	4.4	90
15	Wettability Alteration of Quartz Surface by Low-Salinity Surfactant Nanofluids at High-Pressure and High-Temperature Conditions. Energy & Fuels, 2019, 33, 7062-7068.	5.1	89
16	Interfacial tension of crude oil-water system with imidazolium and lactam-based ionic liquids and their evaluation for enhanced oil recovery under high saline environment. Fuel, 2017, 191, 239-250.	6.4	83
17	Effect of monovalent and divalent salts on the interfacial tension of pure hydrocarbon-brine systems relevant for low salinity water flooding. Journal of Petroleum Science and Engineering, 2017, 157, 1106-1114.	4.2	83
18	Phase equilibrium of semiclathrate hydrates of methane in aqueous solutions of tetra-n-butyl ammonium bromide (TBAB) and TBAB-NaCl. Fluid Phase Equilibria, 2014, 367, 95-102.	2.5	81

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19	Pore scale investigation of low salinity surfactant nanofluid injection into oil saturated sandstone via X-ray micro-tomography. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 370-380.	9.4	78
20	Comprehensive Review on Exploration and Drilling Techniques for Natural Gas Hydrate Reservoirs. <i>Energy & Fuels</i> , 2020, 34, 11813-11839.	5.1	76
21	Effect of Alkyl Ammonium Ionic Liquids on the Interfacial Tension of the Crude Oil-Water System and Their Use for the Enhanced Oil Recovery Using Ionic Liquid-Polymer Flooding. <i>Energy & Fuels</i> , 2016, 30, 2514-2523.	5.1	71
22	Comprehensive Review on the Role of Surfactants in the Chemical Enhanced Oil Recovery Process. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 21-64.	3.7	71
23	Use of Oil-in-water Pickering Emulsion Stabilized by Nanoparticles in Combination With Polymer Flood for Enhanced Oil Recovery. <i>Petroleum Science and Technology</i> , 2015, 33, 1595-1604.	1.5	68
24	Use of Aromatic Ionic Liquids in the Reduction of Surface Phenomena of Crude Oil-Water System and their Synergism with Brine. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 968-978.	3.7	64
25	Alleviation of Foam Formation in a Surfactant Driven Gas Hydrate System: Insights via a Detailed Morphological Study. <i>ACS Applied Energy Materials</i> , 2018, 1, 6899-6911.	5.1	64
26	Viscoelastic Properties of Oil-in-Water (o/w) Pickering Emulsion Stabilized by Surfactant-Polymer and Nanoparticle-Polymer Systems. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1576-1584.	3.7	63
27	Influence of thermal stimulation on the methane hydrate dissociation in porous media under confined reservoir. <i>Journal of Petroleum Science and Engineering</i> , 2016, 147, 547-559.	4.2	62
28	Modeling phase equilibria of semiclathrate hydrates of CH ₄ , CO ₂ and N ₂ in aqueous solution of tetra-n-butyl ammonium bromide. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 459-465.	1.8	61
29	Effect of NaCl, methanol and ethylene glycol on the phase equilibrium of methane hydrate in aqueous solutions of tetrahydrofuran (THF) and tetra-n-butyl ammonium bromide (TBAB). <i>Fluid Phase Equilibria</i> , 2015, 402, 9-17.	2.5	57
30	Viscosity of the oil-in-water Pickering emulsion stabilized by surfactant-polymer and nanoparticle-surfactant-polymer system. <i>Korea Australia Rheology Journal</i> , 2014, 26, 377-387.	1.7	55
31	Phase equilibria of methane and carbon dioxide clathrate hydrates in the presence of (methanol+MgCl ₂) and (ethylene glycol+MgCl ₂) aqueous solutions. <i>Journal of Chemical Thermodynamics</i> , 2013, 65, 198-203.	2.0	54
32	Adsorption of aliphatic ionic liquids at low waxy crude oil-water interfaces and the effect of brine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 62-75.	4.7	54
33	Enhanced oil recovery using oil-in-water (o/w) emulsion stabilized by nanoparticle, surfactant and polymer in the presence of NaCl. <i>Geosystem Engineering</i> , 2014, 17, 195-205.	1.4	53
34	Low Salinity Polymer Flooding: Effect on Polymer Rheology, Injectivity, Retention, and Oil Recovery Efficiency. <i>Energy & Fuels</i> , 2020, 34, 5715-5732.	5.1	53
35	Low-Salinity Surfactant Nanofluid Formulations for Wettability Alteration of Sandstone: Role of the SiO ₂ Nanoparticle Concentration and Divalent Cation/SO ₄ ²⁻ Ratio. <i>Energy & Fuels</i> , 2019, 33, 739-746.	5.1	50
36	An improved model for the phase equilibrium of methane hydrate inhibition in the presence of ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 382, 187-196.	2.5	48

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37	Synergistic effect of lactam, ammonium and hydroxyl ammonium based ionic liquids with and without NaCl on the surface phenomena of crude oil/water system. <i>Fluid Phase Equilibria</i> , 2015, 398, 80-97.	2.5	48
38	High pressure rheology of gas hydrate formed from multiphase systems using modified Couette rheometer. <i>Review of Scientific Instruments</i> , 2017, 88, 025102.	1.3	48
39	Synergistic effect of mixed anionic and cationic surfactant systems on the interfacial tension of crude oil-water and enhanced oil recovery. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 969-981.	2.4	47
40	An efficient model for the prediction of CO ₂ hydrate phase stability conditions in the presence of inhibitors and their mixtures. <i>Journal of Chemical Thermodynamics</i> , 2015, 85, 163-170.	2.0	44
41	Effect of Imidazolium-Based Ionic Liquids on the Interfacial Tension of the Alkane-Water System and Its Influence on the Wettability Alteration of Quartz under Saline Conditions through Contact Angle Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13521-13534.	3.7	43
42	Wettability Alteration of Mineral Surface during Low-Salinity Water Flooding: Role of Salt Type, Pure Alkanes, and Model Oils Containing Polar Components. <i>Energy & Fuels</i> , 2018, 32, 3127-3137.	5.1	42
43	Effect of Molecular Weight of Polyethylene Glycol on the Equilibrium Dissociation Pressures of Methane Hydrate System. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 1878-1885.	1.9	41
44	Morphology Study of Mixed Methane-Tetrahydrofuran Hydrates with and without the Presence of Salt. <i>Energy & Fuels</i> , 2019, 33, 4865-4876.	5.1	41
45	Effect of aromatic/aliphatic based ionic liquids on the phase behavior of methane hydrates: Experiments and modeling. <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 9-20.	2.0	40
46	Insights into Cage Occupancies during Gas Exchange in CH ₄ +CO ₂ and CH ₄ +N ₂ +CO ₂ Mixed Hydrate Systems Relevant for Methane Gas Recovery and Carbon Dioxide Sequestration in Hydrate Reservoirs: A Thermodynamic Approach. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14462-14475.	3.7	39
47	Phase Stability of Hydrates of Methane in Tetrahydrofuran Aqueous Solution and the Effect of Salt. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 3932-3937.	1.9	38
48	A robust model for the phase stability of clathrate hydrate of methane in an aqueous systems of TBAB, TBAB+NaCl and THF suitable for storage and transportation of natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 509-517.	4.4	37
49	Action of biosurfactant producing thermophilic <i>Bacillus subtilis</i> on waxy crude oil and long chain paraffins. <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 168-177.	3.9	36
50	Effect of molecular weight of polyethylene glycol (PEG), a hydrate inhibitive water-based drilling fluid additive, on the formation and dissociation kinetics of methane hydrate. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 1441-1452.	4.4	35
51	Formation and Dissociation Kinetics of Methane Hydrate in Aqueous Oilfield Polymer Solutions (Polyacrylamide, Xanthan Gum, and Guar Gum) and Their Performance Evaluation as Low-Dosage Kinetic Hydrate Inhibitors (LDHI). <i>Energy & Fuels</i> , 2019, 33, 6335-6349.	5.1	35
52	Phase Stability of Semiclathrate Hydrates of Carbon Dioxide in Synthetic Sea Water. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 1062-1067.	1.9	34
53	Experimental Investigation on the Effect of Aliphatic Ionic Liquids on the Solubility of Heavy Crude Oil Using UV-Visible, Fourier Transform-Infrared, and ¹³ C NMR Spectroscopy. <i>Energy & Fuels</i> , 2014, 28, 6151-6162.	5.1	34
54	Bioremediation of Coastal and Marine Pollution due to Crude Oil Using a Microorganism <i>Bacillus subtilis</i> . <i>Procedia Engineering</i> , 2015, 116, 213-220.	1.2	34

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55	Thermodynamic modeling of phase equilibria of clathrate hydrates formed from CH ₄ , CO ₂ , C ₂ H ₆ , N ₂ and C ₃ H ₈ , with different equations of state. <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 180-192.	2.0	32
56	Effect of Monovalent and Divalent Salts on the Interfacial Tension of <i>n</i> -Heptane against Aqueous Anionic Surfactant Solutions. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2341-2350.	1.9	31
57	Oil Recovery Efficiency and Mechanism of Low Salinity-Enhanced Oil Recovery for Light Crude Oil with a Low Acid Number. <i>ACS Omega</i> , 2020, 5, 1506-1518.	3.5	31
58	Viscosity of bulk free radical polymerizing systems under near-isothermal and non-isothermal conditions. <i>Polymer</i> , 2006, 47, 3028-3035.	3.8	30
59	Eco-efficient and green method for the enhanced dissolution of aromatic crude oil sludge using ionic liquids. <i>RSC Advances</i> , 2014, 4, 31007-31018.	3.6	30
60	Biosurfactant from <i>Pseudomonas</i> species with waxes as carbon source – Their production, modeling and properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 100-111.	5.8	30
61	Natural Gas Production from a Marine Clayey Hydrate Reservoir Formed in Seawater Using Depressurization at Constant Pressure, Depressurization by Constant Rate Gas Release, Thermal Stimulation, and Their Implications for Real Field Applications. <i>Energy & Fuels</i> , 2019, 33, 3108-3122.	5.1	30
62	Bulk free radical polymerizations of methyl methacrylate under non-isothermal conditions and with intermediate addition of initiator: Experiments and modeling. <i>Polymer</i> , 2005, 46, 11451-11462.	3.8	29
63	Effects of Electrolytes on the Stability and Dynamic Rheological Properties of an Oil-in-Water Pickering Emulsion Stabilized by a Nanoparticle-Surfactant-Polymer System. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5842-5852.	3.7	29
64	Phase Equilibrium of the Methane Hydrate System in the Presence of Mixed Promoters (THF + TBAB) and the Effect of Inhibitors (NaCl, Methanol, and Ethylene Glycol). <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 3607-3617.	1.9	29
65	Impact of zinc oxide nanoparticles on the rheological and fluid-loss properties, and the hydraulic performance of non-damaging drilling fluid. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 88, 103834.	4.4	29
66	Performance evaluation of esters and graphene nanoparticles as additives on the rheological and lubrication properties of water-based drilling mud. <i>Journal of Petroleum Science and Engineering</i> , 2021, 204, 108680.	4.2	29
67	Phase Equilibrium of Methane Hydrate in the Presence of Aqueous Solutions of Quaternary Ammonium Salts. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2410-2419.	1.9	28
68	Fast degradation and viscosity reduction of waxy crude oil and model waxy crude oil using <i>Bacillus subtilis</i> . <i>Journal of Petroleum Science and Engineering</i> , 2015, 134, 158-166.	4.2	27
69	Zirconium oxide nanoparticle as an effective additive for non-damaging drilling fluid: A study through rheology and computational fluid dynamics investigation. <i>Journal of Petroleum Science and Engineering</i> , 2020, 187, 106826.	4.2	27
70	Interaction of low salinity surfactant nanofluids with carbonate surfaces and molecular level dynamics at fluid-fluid interface at ScCO ₂ loading. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 315-325.	9.4	27
71	Nanofluids of Kaolinite and Silica in Low Saline Seawater (LowSal) with and without Surfactant: Interfacial Tension and Wettability Alteration of Oil-Water-Rock System for Low Salinity-Enhanced Oil Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 291-313.	3.7	27
72	Thermodynamic modeling of phase equilibrium of carbon dioxide clathrate hydrate in aqueous solutions of promoters and inhibitors suitable for gas separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017, 12, 709-722.	1.5	26

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73	Polymer Flooding in Artificial Hydrate Bearing Sediments for Methane Gas Recovery. <i>Energy & Fuels</i> , 2018, 32, 6657-6668.	5.1	26
74	Phase Equilibrium of Methane Hydrate in Aqueous Solutions of Polyacrylamide, Xanthan Gum, and Guar Gum. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 1650-1661.	1.9	26
75	High pressure rheological studies of methane hydrate slurries formed from water-hexane, water-heptane, and water-decane multiphase systems. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103365.	4.4	26
76	Analysis of high performing graphene oxide nanosheets based non-damaging drilling fluids through rheological measurements and CFD studies. <i>Powder Technology</i> , 2021, 377, 379-395.	4.2	26
77	Effect of biosurfactants produced by <i>Bacillus subtilis</i> and <i>Pseudomonas aeruginosa</i> on the formation kinetics of methane hydrates. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 43, 156-166.	4.4	25
78	Nanofluids of silica nanoparticles in low salinity water with surfactant and polymer (SMART LowSal) for enhanced oil recovery. <i>Journal of Molecular Liquids</i> , 2021, 342, 117388.	4.9	25
79	Applications of Nanotechnology for Upstream Oil and Gas Industry. <i>Journal of Nano Research</i> , 0, 24, 7-15.	0.8	24
80	Gas Hydrate Equilibrium Measurement of Methane + Carbon Dioxide + Tetrahydrofuran+ Water System at High CO ₂ Concentrations. <i>Procedia Engineering</i> , 2016, 148, 1220-1224.	1.2	24
81	Substantial Enhancement of Heavy Crude Oil Dissolution in Low Waxy Crude Oil in the Presence of Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7999-8009.	3.7	23
82	Effect of Cyclooctane and α -Tryptophan on Hydrate Formation from an Equimolar CO ₂ -CH ₄ Gas Mixture Employing a Horizontal-Tray Packed Bed Reactor. <i>Energy & Fuels</i> , 2020, 34, 9840-9851.	5.1	23
83	Separation of coal mine methane gas mixture via sII and sH hydrate formation. <i>Fuel</i> , 2021, 305, 121467.	6.4	23
84	Effects of Imidazolium-Based Ionic Liquids on the Rheological Behavior of Heavy Crude Oil under High-Pressure and High-Temperature Conditions. <i>Energy & Fuels</i> , 2017, 31, 8764-8775.	5.1	22
85	Experimental investigations on the phase equilibrium of semiclathrate hydrates of carbon dioxide in TBAB with small amount of surfactant. <i>International Journal of Energy and Environmental Engineering</i> , 2013, 4, 1.	2.5	21
86	Gas Hydrates as a Potential Energy Resource for Energy Sustainability. <i>Green Energy and Technology</i> , 2018, , 265-287.	0.6	21
87	Prediction of phase stability conditions of gas hydrates of methane and carbon dioxide in porous media. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 18, 254-262.	4.4	20
88	Imidazolium-based ionic liquids as an anticorrosive agent for completion fluid design. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 949-961.	3.2	20
89	Flow, mixing, and heat transfer in fluidic oscillators. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 542-559.	1.7	20
90	A Comprehensive Review on Well Completion Operations and Artificial Lift Techniques for Methane Gas Production from Natural Gas Hydrate Reservoirs. <i>Energy & Fuels</i> , 2021, 35, 11740-11760.	5.1	20

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91	The Performance of Toluene and Naphtha as Viscosity and Drag Reducing Solvents for the Pipeline Transportation of Heavy Crude Oil. <i>Petroleum Science and Technology</i> , 2015, 33, 952-960.	1.5	19
92	Rheological investigation of a random copolymer of polyacrylamide and polyacryloyl hydrazide (PAM-PAH) for oil recovery applications. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	19
93	A systematic molecular investigation on Sodium Dodecyl Benzene Sulphonate (SDBS) as a Low Dosage Hydrate Inhibitor (LDHI) and the role of Benzene Ring in the structure. <i>Journal of Molecular Liquids</i> , 2021, 337, 116374.	4.9	19
94	Stability of nanoparticle stabilized oil-in-water Pickering emulsion under high pressure and high temperature conditions: comparison with surfactant stabilized oil-in-water emulsion. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 1204-1217.	2.4	18
95	Morphological Studies of Mixed Methane Tetrahydrofuran Hydrates in Saline Water for Energy Storage Application. <i>Energy Procedia</i> , 2017, 143, 786-791.	1.8	17
96	Effect of Methylamine, Amylamine, and Decylamine on the Formation and Dissociation Kinetics of CO ₂ Hydrate Relevant for Carbon Dioxide Sequestration. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2672-2684.	3.7	17
97	Characterization and rheology of Krishna-Godavari basin sediments. <i>Marine and Petroleum Geology</i> , 2019, 110, 275-286.	3.3	16
98	Prediction of phase equilibrium of clathrate hydrates of multicomponent natural gases containing CO ₂ and H ₂ S. <i>Journal of Petroleum Science and Engineering</i> , 2014, 116, 81-89.	4.2	15
99	Kinetic and Morphology Study of Equimolar CO ₂ -CH ₄ Hydrate Formation in the Presence of Cyclooctane and <i>l</i> -Tryptophan. <i>Energy & Fuels</i> , 2021, 35, 636-648.	5.1	15
100	Natural Gas Hydrates in the Krishna-Godavari Basin Sediments under Marine Reservoir Conditions: Thermodynamics and Dissociation Kinetics using Thermal Stimulation. <i>Energy & Fuels</i> , 2021, 35, 8685-8698.	5.1	15
101	Silica nanofluid in low salinity seawater containing surfactant and polymer: Oil recovery efficiency, wettability alteration and adsorption studies. <i>Journal of Petroleum Science and Engineering</i> , 2022, 211, 110148.	4.2	15
102	Engineering the Wettability Alteration of Sandstone Using Surfactant-Assisted Functional Silica Nanofluids in Low-Salinity Seawater for Enhanced Oil Recovery. <i>ACS Engineering Au</i> , 2022, 2, 421-435.	5.1	15
103	Spectroscopic investigations to understand the enhanced dissolution of heavy crude oil in the presence of lactam, alkyl ammonium and hydroxyl ammonium based ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 221, 323-332.	4.9	14
104	Retention of Silica Nanoparticles in Limestone Porous Media. , 2017, , .		14
105	Synergistic Effect of Brine System Containing Mixed Monovalent (NaCl, KCl) and Divalent (MgCl ₂ , MgSO ₄) Salts on the Interfacial Tension of Pure Hydrocarbon-Brine System Relevant for Low Salinity Water Flooding. <i>Energy & Fuels</i> , 2020, 34, 4201-4212.	5.1	14
106	Kinetics of Methane Hydrate Formation in the Presence of 1-Dodecyl-2-pyrrolidinone and Tetrahydrofuran in Pure Water. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 7588-7598.	3.7	14
107	Production performance of water alternate gas injection techniques for enhanced oil recovery: effect of WAG ratio, number of WAG cycles and the type of injection gas. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 7, 132.	0.2	13
108	Enhanced microbial degradation of waxy crude oil: a review on current status and future perspective. <i>International Journal of Oil, Gas and Coal Technology</i> , 2017, 16, 130.	0.2	13

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109	Nanoparticle Stabilized Solvent-Based Emulsion for Enhanced Heavy Oil Recovery. , 2018, , .		13
110	Kinetic and thermodynamic behavior of the biodegradation of waxy crude oil using <i>Bacillus subtilis</i> . Journal of Petroleum Science and Engineering, 2018, 160, 412-421.	4.2	13
111	Phase Equilibrium of Methane Hydrates in the Presence of $MgBr_2$, $CaBr_2$, and $ZnBr_2$ Aqueous Solutions. Journal of Chemical & Engineering Data, 2021, 66, 2519-2530.	1.9	13
112	Nature friendly Application of Ionic Liquids for Dissolution Enhancement of Heavy Crude Oil. , 2015, , .		12
113	High-Pressure Rheology of Methane Hydrate Sediment Slurry Using a Modified Couette Geometry. Industrial & Engineering Chemistry Research, 2020, 59, 4079-4092.	3.7	12
114	Effect of monovalent and divalent alkali [NaOH and Ca(OH) ₂] on the interfacial tension of pure hydrocarbon-water systems relevant for enhanced oil recovery. Journal of Petroleum Science and Engineering, 2021, 197, 107892.	4.2	12
115	Polymer-Assisted Chemical Inhibitor Flooding: A Novel Approach for Energy Recovery from Hydrate-Bearing Sediments. Industrial & Engineering Chemistry Research, 2021, 60, 8043-8055.	3.7	12
116	High Pressure Rheology of Gas Hydrate in Multiphase Flow Systems. Lecture Notes in Civil Engineering, 2021, , 321-327.	0.4	12
117	Dynamic viscoelastic properties of free radical bulk polymerizing systems under near-isothermal and non-isothermal conditions. Rheologica Acta, 2007, 46, 455-468.	2.4	11
118	An experimental study on on-line optimizing control of free radical bulk polymerization in a rheometerâ€“reactor assembly under conditions of power failure. Chemical Engineering Science, 2007, 62, 2790-2802.	3.8	11
119	Thermodynamic modeling of binary phase diagram of 2-amino-2-methyl-1, 3-propanediol and TRIS(hydroxymethyl)aminomethane system with experimental verification. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 50, 126-133.	1.6	11
120	Passive Mixer cum Reactor Using Threaded Inserts: Investigations of Flow, Mixing, and Heat Transfer Characteristics. Industrial & Engineering Chemistry Research, 2020, 59, 3943-3961.	3.7	11
121	Wettability Alteration of the Oil-Wet Carbonate by Viscosity-Augmented Guar Galactomannan for Enhanced Oil Recovery. ACS Applied Polymer Materials, 2021, 3, 1983-1994.	4.4	11
122	Impact of Biosurfactants, Surfactin, and Rhamnolipid Produced from <i>Bacillus subtilis</i> and <i>Pseudomonas aeruginosa</i> , on the Enhanced Recovery of Crude Oil and Its Comparison with Commercial Surfactants. Energy & Fuels, 2021, 35, 9883-9893.	5.1	11
123	CO ₂ â€“CH ₄ Hydrate Formation Using <i>L</i> -Tryptophan and Cyclooctane Employing a Conventional Stirred Tank Reactor. Energy & Fuels, 2021, 35, 13224-13239.	5.1	11
124	A hybrid differential evolution algorithm approach towards assisted history matching and uncertainty quantification for reservoir models. Journal of Petroleum Science and Engineering, 2016, 142, 21-35.	4.2	10
125	Effect of Al ₂ O ₃ nanoparticle on viscoelastic and filtration properties of a salt-polymer-based drilling fluid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, , 1-13.	2.3	10
126	Effect of sodium tripolyphosphate (STPP) and tetrasodium pyrophosphate (TSPP) on the formation kinetics of CO ₂ hydrate in bulk and porous media in the presence of pure water and seawater relevant for CO ₂ sequestration. International Journal of Greenhouse Gas Control, 2022, 114, 103564.	4.6	10

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127	Synergistic effect of nickel nanoparticles with tetralin on the rheology and upgradation of extra heavy oil. <i>Fuel</i> , 2022, 308, 122035.	6.4	9
128	Systematic investigations on the biodegradation and viscosity reduction of long chain hydrocarbons using <i>Pseudomonas aeruginosa</i> and <i>Pseudomonas fluorescens</i> . <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 386-397.	3.5	8
129	Effect of Asphaltenes on the Kinetics of Methane Hydrate Formation and Dissociation in Oil-in-Water Dispersion Systems Containing Light Saturated and Aromatic Hydrocarbons. <i>Energy & Fuels</i> , 2021, 35, 17410-17423.	5.1	8
130	Effect of Nanoparticles on the Viscosity Alteration of Vacuum Residue. <i>Lecture Notes in Civil Engineering</i> , 2021, , 419-424.	0.4	8
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