Sivabalan Sakthivel

List of Publications by Year
in descending order

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26 papers	738 citations	516710 16 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	433 citing authors

#	Article	IF	Citations
1	Effect of ammonium based ionic liquids on the rheological behavior of the heavy crude oil for high pressure and high temperature conditions. Petroleum, 2022, 8, 552-566.	2.8	4
2	Imidazolium based ionic liquid stabilized foams for conformance control: bulk and porous scale investigation. RSC Advances, 2021, 11, 29711-29727.	3.6	8
3	Carbon Dots Stabilized Foam for Enhanced Oil Recovery. , 2021, , .		1
4	Specificity and Synergy at the Oilâ€“Brine Interface: New Insights from Experiments and Molecular Dynamics Simulations. Energy & Fuels, 2021, 35, 14647-14657.	5.1	15
5	Enhanced oil recovery by spontaneous imbibition of imidazolium based ionic liquids on the carbonate reservoir. Journal of Molecular Liquids, 2021, 340, 117301.	4.9	18
6	Spontaneous imbibition characteristics of carbon nanofluids in carbonate reservoirs. Energy Reports, 2021, 7, 4235-4248.	5.1	10
7	Wettability Alteration of Carbonate Reservoirs Using Imidazolium-Based Ionic Liquids. ACS Omega, 2021, 6, 30315-30326.	3.5	16
8	Carbon nanodots for enhanced oil recovery in carbonate reservoirs. Energy Reports, 2021, 7, 8943-8959.	5.1	14
9	Wettability Alteration in Carbonate Reservoirs by Carbon Nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 598, 124819.	4.7	38
10	Eco-efficient rheological improvement of heavy crude oil using lactam based ionic liquids at high temperature high pressure condition. Fuel, 2020, 276, 118027.	6.4	18
11	Experimental Evaluation of Carbon Dots Stabilized Foam for Enhanced Oil Recovery. Energy & Fuels, 2019, 33, 9629-9643.	5.1	35
12	Effect of aromatic/aliphatic based ionic liquids on the phase behavior of methane hydrates: Experiments and modeling. Journal of Chemical Thermodynamics, 2018, 117, 9-20.	2.0	40
13	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
14	Imidazolium-based ionic liquids as an anticorrosive agent for completion fluid design. Journal of Earth Science (Wuhan, China), 2017, 28, 949-961.	3.2	20
15	Effect of Imidazolium-Based Ionic Liquids on the Interfacial Tension of the Alkaneâ€“Water System and Its Influence on the Wettability Alteration of Quartz under Saline Conditions through Contact Angle Measurements. Industrial & Engineering Chemistry Research, 2017, 56, 13521-13534.	3.7	43
16	Effects of Imidazolium-Based Ionic Liquids on the Rheological Behavior of Heavy Crude Oil under High-Pressure and High-Temperature Conditions. Energy & Fuels, 2017, 31, 8764-8775.	5.1	22
17	Spectroscopic investigations to understand the enhanced dissolution of heavy crude oil in the presence of lactam, alkyl ammonium and hydroxyl ammonium based ionic liquids. Journal of Molecular Liquids, 2016, 221, 323-332.	4.9	14
18	Effect of Alkyl Ammonium Ionic Liquids on the Interfacial Tension of the Crude Oilâ€“Water System and Their Use for the Enhanced Oil Recovery Using Ionic Liquid-Polymer Flooding. Energy & Fuels, 2016, 30, 2514-2523.	5.1	71

#	Article	IF	Citations
19	Eco-Efficient Method for the Dissolution Enhancement of Heavy Crude Oil Using Ionic Liquids. , 2015, , .		3
20	Nature friendly Application of Ionic Liquids for Dissolution Enhancement of Heavy Crude Oil. , 2015, , .		12
21	Use of Aromatic Ionic Liquids in the Reduction of Surface Phenomena of Crude Oilâ€“Water System and their Synergism with Brine. Industrial & Engineering Chemistry Research, 2015, 54, 968-978.	3.7	64
22	Substantial Enhancement of Heavy Crude Oil Dissolution in Low Waxy Crude Oil in the Presence of Ionic Liquid. Industrial & Engineering Chemistry Research, 2015, 54, 7999-8009.	3.7	23
23	Synergistic effect of lactam, ammonium and hydroxyl ammonium based ionic liquids with and without NaCl on the surface phenomena of crude oil/water system. Fluid Phase Equilibria, 2015, 398, 80-97.	2.5	48
24	Adsorption of aliphatic ionic liquids at low waxy crude oilâ€“water interfaces and the effect of brine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 62-75.	4.7	54
25	Eco-efficient and green method for the enhanced dissolution of aromatic crude oil sludge using ionic liquids. RSC Advances, 2014, 4, 31007-31018.	3.6	30
26	Experimental Investigation on the Effect of Aliphatic Ionic Liquids on the Solubility of Heavy Crude Oil Using UVâ€“Visible, Fourier Transform-Infrared, and ¹³C NMR Spectroscopy. Energy & Fuels, 2014, 28, 6151-6162.	5.1	34