Mohammed Ayoub

List of Publications by Year
in descending order

39 papers	479 citations	686830 13 h-index	752256 20 g-index
39 all docs	39 docs citations	39 times ranked	275 citing authors

#	Article	IF	Citations
1	Alternative chemical agents for alkalis, surfactants and polymers for enhanced oil recovery: Research trend and prospects. Journal of Petroleum Science and Engineering, 2020, 187, 106828.	2.1	60
2	Exergy return on exergy investment analysis of natural-polymer (Guar-Arabic gum) enhanced oil recovery process. Energy, 2019, 181, 162-172.	4.5	36
3	Experimental investigation of the behaviour of a novel amino acid-based surfactant relevant to EOR application. Journal of Molecular Liquids, 2020, 316, 113848.	2.3	32
4	Updated Perceptions on Polymer-Based Enhanced Oil Recovery toward High-Temperature High-Salinity Tolerance for Successful Field Applications in Carbonate Reservoirs. Polymers, 2022, 14, 2001.	2.0	25
5	Experimental Investigation into Effects of Crude Oil Acid and Base Number on Wettability Alteration by Using Different Low Salinity Water in Sandstone Rock. Journal of the Japan Petroleum Institute, 2015, 58, 228-236.	0.4	22
6	A new correlation for accurate prediction of oil formation volume factor at the bubble point pressure using Group Method of Data Handling approach. Journal of Petroleum Science and Engineering, 2022, 208, 109410.	2.1	20
7	Experimental investigation of GO-HPAM and SiO2-HPAM composite for cEOR: Rheology, interfacial tension reduction, and wettability alteration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 637, 128189.	2.3	20
8	Synthesis and evaluation of Jatropha oil-based emulsified acids for matrix acidizing of carbonate rocks. Journal of Petroleum Exploration and Production, 2019, 9, 1119-1133.	1.2	18
9	An outlook into recent advances on estimation of effective stimulated reservoir volume. Journal of Natural Gas Science and Engineering, 2021, 88, 103822.	2.1	17
10	Predicting the Efficiency of the Oil Removal From Surfactant and Polymer Produced Water by Using Liquid–Liquid Hydrocyclone: Comparison of Prediction Abilities Between Response Surface Methodology and Adaptive Neuro-Fuzzy Inference System. IEEE Access, 2019, 7, 179605-179619.	2.6	15
11	A new hybrid technique using low salinity water injection and foam flooding for enhanced oil recovery in sandstone rock. Journal of Petroleum Science and Engineering, 2019, 174, 716-728.	2.1	15
12	Calculation of temperature profile in injection wells. Journal of Petroleum Exploration and Production, 2020, 10, 687-697.	1.2	15
13	Deep Learning Approach for Robust Prediction of Reservoir Bubble Point Pressure. ACS Omega, 2021, 6, 21499-21513.	1.6	15
14	Apparent and plastic viscosities prediction of water-based drilling fluid using response surface methodology. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 616, 126278.	2.3	14
15	Removal of oil from polymer-produced water by using flotation process and statistical modelling. Journal of Petroleum Exploration and Production, 2019, 9, 2927-2932.	1.2	12
16	Interfacial Properties, Wettability Alteration and Emulsification Properties of an Organic Alkali–Surface Active Ionic Liquid System: Implications for Enhanced Oil Recovery. Molecules, 2022, 27, 2265.	1.7	12
17	Increasing Reservoir Recovery Efficiency through Laboratory-Proven Hybrid Smart Water-Assisted Foam (SWAF) Flooding in Carbonate Reservoirs. Energies, 2022, 15, 3058.	1.6	11
18	Experimental investigation of N-lauroyl sarcosine and N-lauroyl-L-glutamic acid as green surfactants for enhanced oil recovery application. Journal of Molecular Liquids, 2022, 362, 119738.	2.3	11

#	Article	IF	Citations
19	Application of Emulsions and Microemulsions in Enhanced Oil Recovery and Well Stimulation. , 0, , .		10
20	A robust fuzzy logic-based model for predicting the critical total drawdown in sand production in oil and gas wells. PLoS ONE, 2021, 16, e0250466.	1.1	10
21	Investigation into the Oil Recovery Process Using an Organic Alkali–Amino Acid-Based Surfactant System. Energy & Fuels, 2021, 35, 11171-11192.	2.5	10
22	Effect of combination of cationic surfactant and salts on wettability alteration of carbonate rock. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	1.2	9
23	A Comprehensive Study on the Current Pressure Drop Calculation in Multiphase Vertical Wells; Current Trends and Future Prospective. Journal of Applied Sciences, 2014, 14, 3162-3171.	0.1	9
24	A Novel Empirical and Deep Ensemble Super Learning Approach in Predicting Reservoir Wettability via Well Logs. Applied Sciences (Switzerland), 2022, 12, 2942.	1.3	7
25	Recovery Optimization of an Oil Reservoir by Water Flooding under Different Scenarios; a Simulation Approach. Research Journal of Applied Sciences, Engineering and Technology, 2015, 10, 357-372.	0.1	6
26	Development of an integrated RFID-IC technology for on-line viscosity measurements in enhanced oil recovery processes. Journal of Petroleum Exploration and Production, 2019, 9, 2605-2612.	1.2	6
27	A New Insight into Smart Water Assisted Foam SWAF Technology in Carbonate Rocks using Artificial Neural Networks ANNs. , 2022, , .		6
28	Determination of the Gas–Oil Ratio below the Bubble Point Pressure Using the Adaptive Neuro-Fuzzy Inference System (ANFIS). ACS Omega, 2022, 7, 19735-19742.	1.6	6
29	Investigation of the enhanced oil recovery potential of sodium cocoyl alaninate: an eco-friendly surfactant. Journal of Petroleum Exploration and Production, 2022, 12, 2785-2799.	1.2	5
30	An Accurate Reservoir's Bubble Point Pressure Correlation. ACS Omega, 2022, 7, 13196-13209.	1.6	5
31	Investigation into the Effects of Crude Oil on Foam Stability by using Different Low Salinity Water. Indian Journal of Science and Technology, 2016, 9, .	0.5	4
32	Application of variance-based sensitivity analysis in modeling oil well productivity and injectivity. Journal of Petroleum Exploration and Production, 2020, 10, 729-738.	1.2	4
33	Performance of liquid–liquid hydrocyclone (LLHC) for treating produced water from surfactant flooding produced water. World Journal of Engineering, 2019, 17, 215-222.	1.0	3
34	Statistical Modelling of Oil Removal from Surfactant/Polymer Flooding Produced Water by Using Flotation Column. Indonesian Journal of Chemistry, 2020, 20, 360.	0.3	3
35	Modification of Ramey's model for carbon dioxide injection in the vicinity of critical point. Journal of CO2 Utilization, 2016, 16, 218-224.	3.3	2
36	The combined effects of the minimum miscibility pressure and injection rate variations on recovery of co2 flooding in sandstone reservoir. Journal of Petroleum Exploration and Production, 2022, 12, 2899-2913.	1.2	2

#	Article	IF	Citations
37	Numerical modelling of free energy for methanol and water mixtures for biodiesel production. Fuel, 2019, 255, 115781.	3.4	1
38	Experimental Investigation of a New Derived Oleochemical Corrosion Inhibitor. Key Engineering Materials, 0, 796, 112-120.	0.4	1
39	The Oil and Water Separation from Surfactant Produced Water by Using a Flotation Column. Springer Series in Geomechanics and Geoengineering, 2020, , 632-642.	0.0	0