## PUBLICATIONS OF Professor Ajay Mandal, Department of Petroleum Engineering, IIT(ISM)

Sl. No	Publications (Total-265)	Publisher	IF
110.	Year-2025		
1.	Dinesh Joshi and Ajay Mandala, et al., Synthesis and Characterization of Carbon Dots for Enhanced Oil Recovery Applications- Under revision with minor revision in Journal of Molecular Liquids.	Elsevier	5.3
2.	Ranjit Dutta and Ajay Mandal et al., Optimization of CO2 Storage in Saline Aquifers: A Field-Scale Mechanistic Study on Injection Strategies, Pressure Management, and Long-Term Containment, Under revision with minor revision in Environmental Earth Sciences	Springer Nature	2.28
3.	Rajib Chakraborty & Mandal et al Optimization of Control Parameters in Alkaline-Surfactant-Polymer (ASP) Flooding for Enhanced Oil Recovery: A Simulation Approach; Under revision with minor revision in Journal of Petroleum Exploration and Production Technology (PEPT)	Springer Nature	2.4
4.	Rohit Kumar Saw, Ajay Mandal; A Comprehensive Investigation on Ion Tuned Low Salinity Water Flooding in Carbonate Reservoirs: Impact of Phosphate Ion (PO43-)- Under second Review in SPE Journal.	SPE	3.6
5.	Chakraborty G, Ojha K, Mandal A, Patra N. Optimizing Oil Detachment from Silica Surfaces Using Gemini Surfactants and Functionalized Silica Nanoparticles: A Combined Molecular Dynamics and Machine Learning Approach. Physical Chemistry Chemical Physics. 2025.	RSC	3.68
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7.	Akash T, Verma V, Ali M, Mandal A, Pal N. Characterization and optimization of anionic surfactant-polyethylene glycol-alumina based nanofluids for enhanced oil recovery application. Journal of Molecular Liquids. 2025 Jan 12:126924.	Elsevier	5.3
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14.	Ranjit Dutta, Gaurav Kundu, Seyed Mousa Mousavi Mirkalaei, Rajib Chakraborty, Saloma Yomdo, Ajay Mandal Evaluation of Potential of CO2 Enhanced Oil Recovery (EOR) and Assessment of Capacity for Geological Storage in a Mature Oil Reservoir within Upper Assam Basin, India, Energy & Fuels.	ACS	5.3
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