

# Muhammad Rehan Hashmet

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

562  
citations

759233

12  
h-index

752698

20  
g-index

31  
all docs

31  
docs citations

31  
times ranked

306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of anionic surfactant <sup>+</sup> -engineered water hybrid EOR in carbonate formations: An experimental analysis. <i>Petroleum</i> , 2022, 8, 466-475.	2.8	16
2	Predicting the critical salt concentrations of monovalent and divalent brines to initiate fines migration using DLVO modeling. <i>Journal of Molecular Liquids</i> , 2022, 352, 118690.	4.9	13
3	The Performance of Engineered Water Flooding to Enhance High Viscous Oil Recovery. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3893.	2.5	7
4	Investigation of Brine pH Effect on the Rheological and Viscoelastic Properties of HPAM Polymer for an Optimized Enhanced Oil Recovery Design. <i>ACS Omega</i> , 2022, 7, 14961-14971.	3.5	12
5	Application of hybrid low salinity hot water flooding to enhance oil recovery from heavy oil carbonates. <i>Journal of Petroleum Science and Engineering</i> , 2022, 215, 110656.	4.2	6
6	Catalytic Effects of Temperature and Silicon Dioxide Nanoparticles on the Acceleration of Production from Carbonate Rocks. <i>Nanomaterials</i> , 2021, 11, 1642.	4.1	4
7	Capillary Desaturation Tendency of Hybrid Engineered Water-Based Chemical Enhanced Oil Recovery Methods. <i>Energies</i> , 2021, 14, 4368.	3.1	11
8	Application of DLVO Modeling to Study the Effect of Silica Nanofluid to Reduce Critical Salt Concentration in Sandstones. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1186, 012001.	0.6	10
9	Experimental analysis of oil displacement by hybrid engineered water / chemical EOR approach in carbonates. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109297.	4.2	20
10	Synergistic Effects of Engineered Water-Nanoparticle on Oil/Brine/Rock Interactions in Carbonates. , 2021, , .		0
11	Fine Migration Control in Sandstones: Surface Force Analysis and Application of DLVO Theory. <i>ACS Omega</i> , 2020, 5, 31624-31639.	3.5	38
12	A Laboratory Study to Optimize Ion Composition for the Hybrid Low Salinity Water/Polymer Flooding. , 2020, , .		11
13	Hybrid Engineered Water <sup>+</sup> Polymer Flooding in Carbonates: A Review of Mechanisms and Case Studies. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6087.	2.5	29
14	Sand Dilation Study and its Effect on Porosity and Permeability During Cyclic Steam Stimulation by In-Situ Imaging Technique. , 2020, , .		0
15	Investigation of Carbon Dioxide Foam Performance Utilizing Different Additives for Fracturing Unconventional Shales. , 2019, , .		8
16	Experimental investigation of polymer flooding with low-salinity preconditioning of high temperature <sup>+</sup> high-salinity carbonate reservoir. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 1517-1530.	2.4	45
17	Laboratory Study of CO <sub>2</sub> Foam Flooding in High Temperature, High Salinity Carbonate Reservoirs Using Co-injection Technique. <i>Energy &amp; Fuels</i> , 2018, 32, 1416-1422.	5.1	28
18	Screening of New HPAM Base Polymers for Applications in High Temperature and High Salinity Carbonate Reservoirs. , 2018, , .		24

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19	Laboratory Study of CO <sub>2</sub> Foam for Enhanced Oil Recovery: Advanced Screening, Optimization, and Evaluation. , 2018, , .		12
20	Empirical Modeling of the Viscosity of Supercritical Carbon Dioxide Foam Fracturing Fluid under Different Downhole Conditions. Energies, 2018, 11, 782.	3.1	25
21	Experimental Investigation and Optimization of Polymer Enhanced CO <sub>2</sub> Foam Stability and Apparent Viscosity. , 2017, , .		8
22	Experimental investigation of immiscible supercritical carbon dioxide foam rheology for improved oil recovery. Journal of Earth Science (Wuhan, China), 2017, 28, 835-841.	3.2	30
23	Experimental investigation of associative polymer performance for CO <sub>2</sub> foam enhanced oil recovery. Journal of Petroleum Science and Engineering, 2017, 157, 971-979.	4.2	61
24	Laboratory Investigation and Simulation Modeling of Polymer Flooding in High-Temperature, High-Salinity Carbonate Reservoirs. Energy & Fuels, 2017, 31, 13454-13465.	5.1	37
25	Viscosity Models for Polymer Free CO <sub>2</sub> Foam Fracturing Fluid with the Effect of Surfactant Concentration, Salinity and Shear Rate. Energies, 2017, 10, 1970.	3.1	34
26	Injection of Polymer for Improved Sweep Efficiency in High Temperature High Salinity Carbonate Reservoirs: Linear X-Ray Aided Flood Front Monitoring. , 2017, , .		19
27	Application of Biopolymer to Improve Oil Recovery in High Temperature High Salinity Carbonate Reservoirs. , 2015, , .		24
28	Novel Surfactant for the Reduction of CO <sub>2</sub> /Brine Interfacial Tension. Journal of Dispersion Science and Technology, 2014, 35, 463-470.	2.4	22
29	Rheology of enhanced oil recovery polymers-a review. , 2011, , .		1
30	CO <sub>2</sub> Foam as an Improved Fracturing Fluid System for Unconventional Reservoir. , 0, , .		6