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## Wettability Alteration in Carbonates using Zirconium Oxide Nanofluids: EOR Implications

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#	Paper	IF	Citations
336	The Effect of Nanoparticles Crystallite Size on the Recovery Efficiency in Dielectric Nanofluid Flooding. <b>2012</b> , 21, 103-108		33
335	Wettability Alteration in Carbonates using Zirconium Oxide Nanofluids: EOR Implications. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 1028-1036	4.1	302
334	Nanoparticles for Inhibition of Asphaltenes Damage: Adsorption Study and Displacement Test on Porous Media. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 2899-2907	4.1	147
333	Wettability Alteration of Sandstone Cores by Alumina-Based Nanofluids. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 3659-3665	4.1	261
332	Influence of New SiO <sub>2</sub> Nanofluids on Surface Wettability and Interfacial Tension Behaviour between Oil-Water Interface in EOR Processes. <b>2013</b> , 26, 1-8		19
331	Application of ZnO Nanostructures in Improvement of Effective Surface Parameters in EOR Process. <b>2013</b> , 26, 9-16		5
330	Rheological Roles on the Dynamic Behavior of Drill-in Fluid Invasion and Oil Permeability Restoration of the Damage Zone. <b>2013</b> ,		
329	Novel Applications of Nanoparticles for Future Enhanced Oil Recovery. <b>2014</b> ,		23
328	Transport and aggregation of Al <sub>2</sub> O <sub>3</sub> nanoparticles through saturated limestone under high ionic strength conditions: measurements and mechanisms. <b>2014</b> , 16, 1		12
327	Experimental study of surface-modified silica nanoparticles in enhancing oil recovery. <b>2014</b> , 20, 393-400		6
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162	Impact of water saturation and cation concentrations on wettability alteration and oil recovery of carbonate rocks using low-salinity water. <b>2019</b> , 9, 1185-1196		6
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135	The Effect of Wettability and Flow Rate on Oil Displacement Using Polymer-Coated Silica Nanoparticles: A Microfluidic Study. <b>2020</b> , 8, 991		10
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120	Nanoparticle modified polyacrylamide for enhanced oil recovery at harsh conditions. <i>Fuel</i> , <b>2020</b> , 268, 117186	7.1	18
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114	Enhanced Oil Recovery from Austin Chalk Carbonate Reservoirs Using Faujasite-Based Nanoparticles Combined with Low-Salinity Water Flooding. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 213-225	4.1	4
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100	Pore wettability for enhanced oil recovery, contaminant adsorption and oil/water separation: A review. <b>2021</b> , 289, 102377		32
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89	Application of Polymer Based Nanocomposites for Water Shutoff: A Review. <b>2021</b> , 2, 304-322		0
88	Enhanced Oil Recovery with Size-Dependent Interactions of Nanoparticles Surface-Modified by Zwitterionic Surfactants. <b>2021</b> , 11, 7184		0
87	Effect of carbon-based and metal-based nanoparticles on enhanced oil recovery: A review. <b>2021</b> , 338, 116903		6
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85	A systematic review on nanotechnology in enhanced oil recovery. <b>2021</b> , 6, 204-212		9
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82	Enhancement of smart water-based foam characteristics by SiO <sub>2</sub> nanoparticles for EOR applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 627, 127143	5.1	3
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79	Oil recovery aspects of ZnO/SiO <sub>2</sub> nano-clay in carbonate reservoir. <i>Fuel</i> , <b>2022</b> , 307, 121927	7.1	6
78	Effects of cleaning process using toluene and acetone on water-wet-quartz/CO <sub>2</sub> and oil-wet-quartz/CO <sub>2</sub> wettability. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 208, 109555	4.4	3
77	Efficacy of f-MWCNT-CTAB nano-complex in low-salinity seawater EOR operation. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 208, 109532	4.4	2
76	On the reduction of the residual oil saturation through the injection of polymer and nanoparticle solutions. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 208, 109430	4.4	1
75	Combining Particles with Surfactants to Improve Microscopic Displacement and Sweep Efficiency. <b>2021</b> , 247-288		1
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73	The mechanism of laser-assisted generation of aluminum nanoparticles, their wettability and nonlinearity properties. <b>2020</b> , 527, 146702		7
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70	Effect of nanoparticles concentration on electromagnetic-assisted oil recovery using ZnO nanofluids. <b>2020</b> , 15, e0244738		6
69	The Opportunities and Challenges of Preformed Particle Gel in Enhanced Oil Recovery. <b>2020</b> , 13, 290-302		4
68	Investigation of Rheological and Wettability Behavior of Hex-BN Nanofluids. <b>2021</b> , 399, 2100005		



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62	Influence of oil aging time, pressure and temperature on contact angle measurements of reservoir mineral surfaces. <i>Fuel</i> , <b>2021</b> , 122414	7.1	0
61	Preparation and characterization of modified amphiphilic nano-silica for enhanced oil recovery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 633, 127864	5.1	1
60	A novel experimental nanofluid-assisted steam flooding (NASF) approach for enhanced heavy oil recovery. <i>Fuel</i> , <b>2021</b> , 313, 122691	7.1	2
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58	Insight into the Synergic Effect of Ultrasonic Waves, SDS Surfactant, and Silica Nanoparticles on Wettability Alteration of Carbonate Rocks. 1		0
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55	Designing a committee of machines for modeling viscosity of water-based nanofluids. <b>2021</b> , 15, 1967-1987		0
54	Effect of capillary pressure parameter and volume fraction of nanoparticles on EOR process in a 3D geometry. <b>2022</b> , 131, 105762		1
53	Effect of nanoparticles on the performance of polymer/surfactant flooding for enhanced oil recovery: A review. <i>Fuel</i> , <b>2022</b> , 312, 122867	7.1	9
52	Comprehensive Review on the Role of Surfactants in the Chemical Enhanced Oil Recovery Process. <b>2022</b> , 61, 21-64		10
51	Rheological study of nanoparticle-based cationic surfactant solutions. <b>2022</b> ,		2
50	Effect of 2D Alpha-Zirconium Phosphate Nanosheets in Interfacial Tension Reduction and Wettability Alteration: Implications for Enhanced Oil Recovery. <b>2022</b> , 1-13		1

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46	Nanoparticles as Potential Agents for Enhanced Oil Recovery. <b>2021</b> , 41-95			
45	Wettability Alteration, Interfacial Tension (Ift) Reduction and Enhanced Oil Recovery (Eor) from Carbonate Reservoirs by Natural Surfactant (Tribulus Terrestris Extract) - Tio2 Nanoparticles Flooding.			
44	Novel Mechanism Investigation during Development of Nanofluids to Improve Oil Recovery in Malaysian Oilfield. <b>2022</b> ,			
43	Wettability of Shale/Oil/Brine Systems: A New Physicochemical and Imaging Approach. <b>2022</b> ,			0
42	Laboratory Investigation of Hybrid Nano-Assisted-Polymer Method for EOR Applications in Carbonate Reservoirs. <b>2022</b> ,			1
41	Study of the Dilution-Induced Deposition of Concentrated Mixtures of Polyelectrolytes and Surfactants.. <b>2022</b> , 14,			1
40	Improving stability of iron oxide nanofluids for enhanced oil recovery: Exploiting wettability modifications in carbonaceous rocks. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 212, 110311	4.4		2
39	A review on application of nanoparticles in cEOR: Performance, mechanisms, and influencing parameters. <b>2022</b> , 353, 118821			2
38	Pickering nanoemulsions and their mechanisms in enhancing oil recovery: A comprehensive review. <i>Fuel</i> , <b>2022</b> , 319, 123667	7.1		1
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34	Effect of a nanoparticle on wettability alteration and wettability retainment of carbonate reservoirs. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 110684	4.4		0
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32	Synergistic Mechanisms Between Nanoparticles and Surfactants: Insight Into NP&Surfactant Interactions. <i>Frontiers in Energy Research</i> , 10,	3.8		0

31	The spontaneous imbibition mechanisms for enhanced oil recovery by gel breaking fluid of clean fracturing fluid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 129568	5.1	0
30	Effects of MgO, Al <sub>2</sub> O <sub>3</sub> , and TiO <sub>2</sub> Nanoparticles at Low Concentrations on Interfacial Tension (IFT), Rock Wettability, and Oil Recovery by Spontaneous Imbibition in the Process of Smart Nanofluid Injection into Carbonate Reservoirs. <i>ACS Omega</i> ,	3.9	0
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28	Viscosity reduction of heavy crude oils and synthetic oils with various types of rheological behavior by nano-silica fluids. <i>Chemical Papers</i> ,	1.9	
27	Iron oxide nanoparticles impact on improving reservoir rock minerals catalytic effect on heavy oil aquathermolysis. <i>Fuel</i> , <b>2022</b> , 327, 124956	7.1	1
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25	Formation damage reduction during CO <sub>2</sub> flooding in low permeability carbonate reservoir with using a new synthesized nanocomposites. 1-22		0
24	Experimental Investigation on Effect of Enzyme and Nanoparticles on Oil-Brine Interfacial Tension. <b>2022</b> ,		
23	Oil drop stretch and rupture behavior at throat and pore junction during imbibition with active nanofluid: a microfluidic approach. <b>2022</b> , 130012		0
22	Experimental study of the mechanism of nanofluid in enhancing the oil recovery in low permeability reservoirs using microfluidics. <b>2022</b> ,		0
21	Experimental Core Flooding Investigation of New ZnO/Al <sub>2</sub> O <sub>3</sub> Nanocomposites for Enhanced Oil Recovery in Carbonate Reservoirs. <b>2022</b> , 7, 39107-39121		3
20	An experimental investigation of using Ni-doped ZnO/ZrO <sub>2</sub> nanoparticles as a new asphaltene deposition inhibitor in ultra low carbonate porous media. <b>2022</b> , 44, 9429-9447		0
19	A Critical Overview of ASP and Future Perspectives of NASP in EOR of Hydrocarbon Reservoirs: Potential Application, Prospects, Challenges and Governing Mechanisms. <b>2022</b> , 12, 4007		0
18	Multiphase displacement manipulated by micro/nanoparticle suspensions in porous media via microfluidic experiments: From interface science to multiphase flow patterns. <b>2023</b> , 311, 102826		0
17	Analysis on the mechanism and characteristics of nanofluid imbibition in low permeability sandstone core pore surface: Application in reservoir development engineering. <b>2023</b> , 659, 130774		0
16	Nanoparticle-reinforced foam system for enhanced oil recovery (EOR): Mechanistic review and perspective. <b>2022</b> ,		0
15	Identification of novel applications of chemical compounds to change the wettability of reservoir rock: A critical review. <b>2022</b> , 121059		1
14	Mechanism and influencing factors of enhanced oil recovery for active SiDots nanofluid assisted fracturing-drainage in low permeability reservoirs: An experimental and numerical simulation study. <b>2023</b> , 211394		0

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12	Foam EOR as an Optimization Technique for Gas EOR: A Comprehensive Review of Laboratory and Field Implementations. <b>2023</b> , 16, 972	1
11	Improving the Performance of Surface-modified ZnO Nanoparticles for EOR in High-Temperature and High-Salinity Carbonate Reservoirs. <b>2023</b> ,	0
10	Citric acid-based N-alkyl amides for enhanced oil recovery application in the carbonate reservoir: Sustainable laboratory-scale synthesis and recovery performance. <b>2023</b> , 338, 127362	0
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