

# Jagar A Ali

## List of Publications by Year in descending order

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58  
papers

1,882  
citations

236833

25  
h-index

276775

41  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in application of nanotechnology in chemical enhanced oil recovery: Effects of nanoparticles on wettability alteration, interfacial tension reduction, and flooding. Egyptian Journal of Petroleum, 2018, 27, 1371-1383.	1.2	167
2	Potential application of low-salinity polymeric-nanofluid in carbonate oil reservoirs: IFT reduction, wettability alteration, rheology and emulsification characteristics. Journal of Molecular Liquids, 2019, 284, 735-747.	2.3	94
3	Simulation of turbulent flow of nanofluid due to existence of new effective turbulator involving entropy generation. Journal of Molecular Liquids, 2019, 291, 111283.	2.3	78
4	CuO/TiO <sub>2</sub> /PAM as a Novel Introduced Hybrid Agent for Water-Oil Interfacial Tension and Wettability Optimization in Chemical Enhanced Oil Recovery. Energy & Fuels, 2019, 33, 10547-10560.	2.5	75
5	Effect of Environment-Friendly Non-Ionic Surfactant on Interfacial Tension Reduction and Wettability Alteration; Implications for Enhanced Oil Recovery. Energies, 2020, 13, 3988.	1.6	75
6	Nanoparticles for water desalination in solar heat exchanger. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1619-1636.	2.0	74
7	A state-of-the-art review of the application of nanotechnology in the oil and gas industry with a focus on drilling engineering. Journal of Petroleum Science and Engineering, 2020, 191, 107118.	2.1	68
8	Epoxy/layered double hydroxide (LDH) nanocomposites: Synthesis, characterization, and Excellent cure feature of nitrate anion intercalated Zn-Al LDH. Progress in Organic Coatings, 2019, 136, 105218.	1.9	67
9	Effect of SiO <sub>2</sub> nanoparticles on the performance of L-Arg and L-Cys surfactants for enhanced oil recovery in carbonate porous media. Journal of Molecular Liquids, 2020, 300, 112290.	2.3	66
10	Experimental investigation of the effect of green TiO <sub>2</sub> /Quartz nanocomposite on interfacial tension reduction, wettability alteration, and oil recovery improvement. Fuel, 2020, 263, 116599.	3.4	64
11	Impact of a novel biosynthesized nanocomposite (SiO <sub>2</sub> @Montmorilant@Xanthan) on wettability shift and interfacial tension: Applications for enhanced oil recovery. Fuel, 2021, 298, 120773.	3.4	64
12	Experimental investigation into L-Arg and L-Cys eco-friendly surfactants in enhanced oil recovery by considering IFT reduction and wettability alteration. Petroleum Science, 2020, 17, 105-117.	2.4	58
13	Low-Salinity Polymeric Nanofluid-Enhanced Oil Recovery Using Green Polymer-Coated ZnO/SiO <sub>2</sub> Nanocomposites in the Upper Qamchuqa Formation in Kurdistan Region, Iraq. Energy & Fuels, 2019, 33, 927-937.	2.5	49
14	Investigating the effect of [C8Py][Cl] and [C18Py][Cl] ionic liquids on the water/oil interfacial tension by considering Taguchi method. Journal of Petroleum Exploration and Production, 2019, 9, 2933-2941.	1.2	47
15	Smart- and nano-hybrid chemical EOR flooding using Fe <sub>3</sub> O <sub>4</sub> /eggshell nanocomposites. Journal of Molecular Liquids, 2020, 316, 113880.	2.3	46
16	Cure Index for labeling curing potential of epoxy/LDH nanocomposites: A case study on nitrate anion intercalated Ni-Al-LDH. Progress in Organic Coatings, 2019, 136, 105228.	1.9	43
17	Modification of LoSal water performance in reducing interfacial tension using green ZnO/SiO <sub>2</sub> nanocomposite coated by xanthan. Applied Nanoscience (Switzerland), 2019, 9, 397-409.	1.6	41
18	Cure kinetics of epoxy/graphene oxide (GO) nanocomposites: Effect of starch functionalization of GO nanosheets. Progress in Organic Coatings, 2019, 136, 105217.	1.9	41

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19	Emerging applications of TiO <sub>2</sub> /SiO <sub>2</sub> /poly(acrylamide) nanocomposites within the engineered water EOR in carbonate reservoirs. <i>Journal of Molecular Liquids</i> , 2021, 322, 114943.	2.3	37
20	Analysis on the heat storage unit through a Y-shaped fin for solidification of NEPCM. <i>Journal of Molecular Liquids</i> , 2019, 292, 111378.	2.3	36
21	Development of Mg-Zn-Al-CO <sub>3</sub> ternary LDH and its curability in epoxy/amine system. <i>Progress in Organic Coatings</i> , 2019, 136, 105264.	1.9	34
22	Oil recovery aspects of ZnO/SiO <sub>2</sub> nano-clay in carbonate reservoir. <i>Fuel</i> , 2022, 307, 121927.	3.4	33
23	Experimental investigation of the effect of Vitagnus plant extract on enhanced oil recovery process using interfacial tension (IFT) reduction and wettability alteration mechanisms. <i>Journal of Petroleum Exploration and Production</i> , 2020, 10, 2895-2905.	1.2	32
24	Curing epoxy with electrochemically synthesized Gd Fe <sub>3</sub> -O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105245.	1.9	29
25	Natural iron ore as a novel substrate for the biosynthesis of bioactive-stable ZnO@CuO@iron ore NCs: a magnetically recyclable and reusable superior nanocatalyst for the degradation of organic dyes, reduction of Cr(VI) and adsorption of crude oil aromatic compounds, including PAHs. <i>RSC Advances</i> , 2018, 8, 35557-35570.	1.7	27
26	Curing epoxy with electrochemically synthesized Ni Fe <sub>3</sub> -O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105198.	1.9	27
27	Curing epoxy with polyvinylpyrrolidone (PVP) surface-functionalized Zn Fe <sub>3</sub> -O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105227.	1.9	25
28	Greenly Synthesized Magnetite@SiO <sub>2</sub> @Xanthan Nanocomposites and Its Application in Enhanced Oil Recovery: IFT Reduction and Wettability Alteration. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7751-7761.	1.7	23
29	Synergistic Effect of Nanoinhibitive Drilling Fluid on the Shale Swelling Performance at High Temperature and High Pressure. <i>Energy &amp; Fuels</i> , 2022, 36, 1996-2006.	2.5	23
30	Curing epoxy with electrochemically synthesized Zn Fe <sub>3</sub> -O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105246.	1.9	22
31	Curing epoxy with polyethylene glycol (PEG) surface-functionalized Ni <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105250.	1.9	22
32	Influences of nanoparticles with various shapes on MHD flow inside wavy porous space in appearance of radiation. <i>Journal of Molecular Liquids</i> , 2019, 292, 111386.	2.3	21
33	Curing epoxy with polyethylene glycol (PEG) surface-functionalized Gd Fe <sub>3</sub> -O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 137, 105283.	1.9	20
34	Curing epoxy with polyvinylpyrrolidone (PVP) surface-functionalized Mn Fe <sub>3</sub> -O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105247.	1.9	19
35	Heat transfer of ethylene glycol-Fe <sub>3</sub> O <sub>4</sub> nanofluid enclosed by curved porous cavity including electric field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 123945.	1.2	16
36	Green synthesis of ZnO/SiO <sub>2</sub> nanocomposite from pomegranate seed extract: coating by natural xanthan polymer and its characterisations. <i>Micro and Nano Letters</i> , 2019, 14, 638-641.	0.6	15

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37	Green synthesise of CuO@Fe <sub>3</sub> O <sub>4</sub> @Xantan nanocomposites and its application in enhanced oil recovery by considering IFT and wettability behaviours. Micro and Nano Letters, 2020, 15, 550-555.	0.6	15
38	Synergistic Efficiency of Zinc Oxide/Montmorillonite Nanocomposites and a New Derived Saponin in Liquid/Liquid/Solid Interface-Included Systems: Application in Nanotechnology-Assisted Enhanced Oil Recovery. ACS Omega, 2022, 7, 24951-24972.	1.6	15
39	Curing epoxy with ethylenediaminetetraacetic acid (EDTA) surface-functionalized Co Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. Progress in Organic Coatings, 2019, 136, 105248.	1.9	14
40	Curing epoxy with polyvinylpyrrolidone (PVP) surface-functionalized Ni <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> magnetic nanoparticles. Progress in Organic Coatings, 2019, 136, 105259.	1.9	14
41	Evaluation the role of natural surfactants from Tanacetum and Tarragon plants in EOR applications. Journal of Molecular Liquids, 2022, 361, 119576.	2.3	14
42	Curing epoxy with electrochemically synthesized Mn Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. Progress in Organic Coatings, 2019, 136, 105199.	1.9	13
43	Economic and productivity evaluation of different horizontal drilling scenarios: Middle East oil fields as case study. Journal of Petroleum Exploration and Production, 2019, 9, 2449-2460.	1.2	12
44	Curing epoxy with electrochemically synthesized Co Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. Progress in Organic Coatings, 2019, 137, 105252.	1.9	12
45	Effect of the wettability alteration on the cementation factor of carbonate rocks using Henna extract. Materialia, 2019, 8, 100440.	1.3	11
46	Modification of rheological and filtration characteristics of water-based mud for drilling oil and gas wells using green SiO <sub>2</sub> @ZnO@Xanthan nanocomposite. IET Nanobiotechnology, 2019, 13, 748-755.	1.9	11
47	Investigation of convective nanomaterial flow and exergy drop considering CVFEM within a porous tank. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2337-2350.	2.0	10
48	Exploring curing potential of epoxy nanocomposites containing nitrate anion intercalated Mg-Al-LDH with Cure Index. Progress in Organic Coatings, 2020, 139, 105255.	1.9	10
49	Fracture analysis and in situ stress estimation of a gas condensate field in Persian Gulf using FMI and DSI image logs. SN Applied Sciences, 2019, 1, 1.	1.5	8
50	Natural fracture characterization and wellbore stability analysis of a highly fractured southwestern Iranian oilfield. International Journal of Rock Mechanics and Minings Sciences, 2019, 123, 104101.	2.6	8
51	Nanoparticle application for heat transfer and irreversibility analysis in an air conditioning unit. Journal of Molecular Liquids, 2019, 292, 111372.	2.3	7
52	Source rock potential and reservoir characterization of the Lower Cretaceous Sarmord Formation in selected sections in Kurdistan Region-Iraq. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	6
53	Geochemical study of the early cretaceous Fahliyan oil reservoir in the northwest Persian Gulf. Journal of Petroleum Exploration and Production, 2021, 11, 2435-2447.	1.2	6
54	Stability analysis and trajectory optimization of vertical and deviated boreholes using the extended-Mogi-Coulomb criterion and poly-axial test data. Upstream Oil and Gas Technology, 2021, 7, 100052.	1.1	5

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55	A Sensitivity Study on Low Salinity Waterflooding. Modern Environmental Science and Engineering, 2017, 04, 231-236.	0.3	5
56	Rapid ecosynthesis of TiO <sub>2</sub> @CuO@Chromite nanocatalyst for environmentally friendly applications: solventless cyanation of aldehydes and high efficient treatment of sewage waters. Environmental Sciences Europe, 2020, 32, .	2.6	3
57	Natural Gas Desulfurization Process By MEA Amine: The preferable Engineering Design Procedure. SSRG International Journal of Engineering Trends and Technology, 2015, 28, 214-218.	0.3	2
58	Sand production onset using 3D Hoek's Brown criterion and petro-physical logs: a case study. Geomechanics and Geoengineering, 2022, 17, 499-513.	0.9	1