Maen M Husein

List of Publications by Year
in descending order

97 papers	2,973 citations	147801 31 h-index	206112 48 g-index
97 all docs	97 docs citations	97 times ranked	2335 citing authors

#	Article	IF	Citations
1	An optimized thermal cracking approach for onsite upgrading of bitumen. Fuel, 2022, 307, 121885.	6.4	6
2	Magnetic Î^{3}-Fe₂O₃/ZIF-7 Composite Particles and Their Application for Oily Water Treatment. ACS Omega, 2022, 7, 3700-3712.	3.5	8
3	Flow characteristics and EOR mechanism of foam flooding in fractured vuggy reservoirs. Journal of Petroleum Science and Engineering, 2022, 211, 110170.	4.2	17
4	Capillary-Driven Ejection of a Droplet from a Micropore into a Channel: A Theoretical Model and a Computational Fluid Dynamics Verification. Langmuir, 2022, 38, 4461-4472.	3.5	7
5	In-depth characterization of light, medium and heavy oil asphaltenes as well as asphaltenes subfractions. Fuel, 2022, 324, 124525.	6.4	17
6	Assessing the performance of foams stabilized by anionic/nonionic surfactant mixture under high temperature and pressure conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129699.	4.7	3
7	Modifying ceramic membranes with in situ grown iron oxide nanoparticles and their use for oily water treatment. Journal of Membrane Science, 2021, 617, 118641.	8.2	23
8	Theoretical and Experimental Approach for Understanding the Interactions Among SiO₂Nanoparticles, CaCO₃, and Xanthan Gum Components of Water-Based Mud. Energy & Fuels, 2021, 35, 4803-4814.	5.1	11
9	Conformance Control in Oil Reservoirs by Citric Acid-Coated Magnetite Nanoparticles. ACS Omega, 2021, 6, 9001-9012.	3.5	12
10	Temporal Scale Analysis of Gas Flow in Tight Gas Reservoirs considering the Nonequilibrium Effect. Geofluids, 2021, 2021, 1-12.	0.7	0
11	Evolution of adsorbed layers of asphaltenes at oil-water interfaces: A novel experimental protocol. Journal of Colloid and Interface Science, 2021, 594, 80-91.	9.4	33
12	Shape Memory Polyurethane as a Drilling Fluid Lost Circulation Material. Macromolecular Materials and Engineering, 2021, 306, 2100354.	3.6	12
13	An integrated approach for predicting asphaltenes precipitation and deposition along wellbores. Journal of Petroleum Science and Engineering, 2021, 203, 108486.	4.2	7
14	On the evaluation of crude oil oxidation during thermogravimetry by generalised regression neural network and gene expression programming: application to thermal enhanced oil recovery. Combustion Theory and Modelling, 2021, 25, 1268-1295.	1.9	21
15	Application of cascade forward neural network and group method of data handling to modeling crude oil pyrolysis during thermal enhanced oil recovery. Journal of Petroleum Science and Engineering, 2021, 205, 108836.	4.2	50
16	Clay-water interaction inhibition using amine and glycol-based deep eutectic solvents for efficient drilling of shale formations. Journal of Molecular Liquids, 2021, 340, 117134.	4.9	21
17	A novel oil-in-water drilling mud formulated with extracts from Indian mango seed oil. Petroleum Science, 2020, 17, 196-210.	4.9	21
18	Environmentally benign invert emulsion mud with optimized performance for shale drilling. Journal of Petroleum Science and Engineering, 2020, 186, 106791.	4.2	13

#	Article	IF	Citations
19	On the evaluation of thermal conductivity of nanofluids using advanced intelligent models. International Communications in Heat and Mass Transfer, 2020, 118, 104825.	5.6	21
20	Development of a powerful zeolitic imidazolate framework (ZIF-8)/carbon fiber nanocomposite for separation of hydrocarbons and crude oil from wastewater. Microporous and Mesoporous Materials, 2020, 307, 110463.	4.4	25
21	Enhancing the Performance of HPAM Polymer Flooding Using Nano CuO/Nanoclay Blend. Processes, 2020, 8, 907.	2.8	20
22	Enhancement of cement properties by means of in situ grown nanoparticles. Construction and Building Materials, 2020, 261, 120496.	7.2	16
23	Artificial Intelligence Based Methods for Asphaltenes Adsorption by Nanocomposites: Application of Group Method of Data Handling, Least Squares Support Vector Machine, and Artificial Neural Networks. Nanomaterials, 2020, 10, 890.	4.1	40
24	Production performance by polymer conformance control in ultra-low permeability heterogeneous sandstone reservoirs produced under their natural energy. Journal of Petroleum Science and Engineering, 2020, 193, 107348.	4.2	5
25	Application of nanoparticles for asphaltenes adsorption and oxidation: A critical review of challenges and recent progress. Fuel, 2020, 279, 117763.	6.4	44
26	Hydroconversion of asphaltene in a hydrogen donor solvent: Stability analysis of the asphaltene-solvent colloidal system. Fuel, 2020, 267, 117086.	6.4	6
27	Application of bare nanoparticle-based nanofluids in enhanced oil recovery. Fuel, 2020, 267, 117262.	6.4	88
28	Modelling asphaltene precipitation titration data: A committee of machines and a group method of data handling. Canadian Journal of Chemical Engineering, 2019, 97, 431-441.	1.7	14
29	A review of polymer nanohybrids for oil recovery. Advances in Colloid and Interface Science, 2019, 272, 102018.	14.7	69
30	Three-level structure change of asphaltenes undergoing conversion in a hydrogen donor solvent. Fuel, 2019, 255, 115736.	6.4	15
31	Data-driven modeling of interfacial tension in impure CO2-brine systems with implications for geological carbon storage. International Journal of Greenhouse Gas Control, 2019, 90, 102811.	4.6	40
32	Effect of Hydrophobic and Hydrophilic Metal Oxide Nanoparticles on the Performance of Xanthan Gum Solutions for Heavy Oil Recovery. Nanomaterials, 2019, 9, 94.	4.1	34
33	Partial Upgrading of Athabasca Bitumen Using Thermal Cracking. Catalysts, 2019, 9, 431.	3.5	4
34	Impact of PAM-Grafted Nanoparticles on the Performance of Hydrolyzed Polyacrylamide Solutions for Heavy Oil Recovery at Different Salinities. Industrial & Engineering Chemistry Research, 2019, 58, 9888-9899.	3.7	38
35	Modeling asphaltene precipitation during natural depletion of reservoirs and evaluating screening criteria for stability of crude oils. Journal of Petroleum Science and Engineering, 2019, 181, 106127.	4.2	13
36	Heavy oil recovery by surface modified silica nanoparticle/HPAM nanofluids. Fuel, 2019, 252, 622-634.	6.4	47

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37	Kinetic modelling of thermal cracking of Arabian atmospheric and vacuum residue. Fuel Processing Technology, 2019, 189, 89-97.	7.2	19
38	Hydrocracking of Athabasca Vacuum Residue Using Ni-Mo-Supported Drill Cuttings. Catalysts, 2019, 9, 216.	3.5	4
39	Modeling heat capacity of ionic liquids using group method of data handling: A hybrid and structure-based approach. International Journal of Heat and Mass Transfer, 2019, 129, 7-17.	4.8	34
40	A review on zeolitic imidazolate frameworks use for crude oil spills cleanup. Advances in Geo-Energy Research, 2019, 3, 320-342.	6.0	17
41	Modeling minimum miscibility pressure during pure and impure CO2 flooding using hybrid of radial basis function neural network and evolutionary techniques. Fuel, 2018, 220, 270-282.	6.4	76
42	Synergistic Mechanism of Particulate Matter (PM) from Coal Combustion and Saponin from Camellia Seed Pomace in Stabilizing CO₂ Foam. Energy & Fuels, 2018, 32, 3733-3742.	5.1	18
43	Pilot-scale evaluation of hydrotreating inferior coker gas oil prior to its fluid catalytic cracking. Fuel, 2018, 226, 27-34.	6.4	12
44	Toward mechanistic understanding of asphaltene aggregation behavior in toluene: The roles of asphaltene structure, aging time, temperature, and ultrasonic radiation. Journal of Molecular Liquids, 2018, 264, 410-424.	4.9	101
45	Catalytic thermal cracking of Athabasca VR in a closed reactor system. Fuel, 2018, 217, 409-419.	6.4	15
46	Asphaltenes Adsorption onto Metal Oxide Nanoparticles: A Critical Evaluation of Measurement Techniques. Energy & Fuels, 2018, 32, 2213-2223.	5.1	57
47	Hydrocracking of Athabasca VR Using NiO-WO₃ Zeolite-Based Catalysts. Energy & Fuels, 2018, 32, 2224-2233.	5.1	24
48	Combined Hydrotreating and Fluid Catalytic Cracking Processing for the Conversion of Inferior Coker Gas Oil: Effect on Nitrogen Compounds and Condensed Aromatics. Energy & Fuels, 2018, 32, 4979-4987.	5.1	14
49	Modeling interfacial tension in N2/n-alkane systems using corresponding state theory: Application to gas injection processes. Fuel, 2018, 222, 779-791.	6.4	46
50	On the evaluation of the viscosity of nanofluid systems: Modeling and data assessment. Renewable and Sustainable Energy Reviews, 2018, 81, 313-329.	16.4	183
51	9.The Use of Single Microemulsions for Nanoparticle Preparation. , 2018, , 291-312.		0
52	Rheological Behavior of Surface Modified Silica Nanoparticles Dispersed in Partially Hydrolyzed Polyacrylamide and Xanthan Gum Solutions: Experimental Measurements, Mechanistic Understanding, and Model Development. Energy & Fuels, 2018, 32, 10628-10638.	5.1	52
53	Thermal cracking of atmospheric residue versus vacuum residue. Fuel Processing Technology, 2018, 181, 331-339.	7.2	23
54	Improving Polymer Flooding by Addition of Surface Modified Nanoparticles. , 2018, , .		6

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55	Effects of Oil Viscosity on the Plugging Performance of Oil-in-Water Emulsion in Porous Media. Industrial & Engineering Chemistry Research, 2018, 57, 7301-7309.	3.7	43
56	Application of adaptive neuro fuzzy interface system optimized with evolutionary algorithms for modeling CO 2 -crude oil minimum miscibility pressure. Fuel, 2017, 205, 34-45.	6.4	80
57	Wall slipping behavior of foam with nanoparticle-armored bubbles and its flow resistance factor in cracks. Scientific Reports, 2017, 7, 5063.	3.3	26
58	Thermal cracking of Athabasca VR and bitumen and their maltene fraction in a closed reactor system. Fuel, 2017, 190, 396-408.	6.4	29
59	Preparation of nanoscale organosols and hydrosols via the phase transfer route. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6
60	Using activated biochar for greenhouse gas mitigation and industrial water treatment. Mitigation and Adaptation Strategies for Global Change, 2016, 21, 761-777.	2.1	5
61	Effect of coagulant and flocculant addition scheme on the treatment of dairy farm wastewater. Journal of Water Reuse and Desalination, 2015, 5, 271-281.	2.3	3
62	Dispersed Fe2O3 nanoparticles preparation in heavy oil and their uptake of asphaltenes. Fuel Processing Technology, 2015, 133, 120-127.	7.2	39
63	Inferring the role of NiO nanoparticles from the thermal behavior of virgin and adsorbed hydrocarbons. Fuel, 2015, 147, 53-61.	6.4	12
64	A field application of nanoparticle-based invert emulsion drilling fluids. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	29
65	Experimental Investigation on Wellbore Strengthening in Shales by Means of Nanoparticle-Based Drilling Fluids. , 2014, , .		35
66	Co-Contaminant-Aided Removal of Organics from Produced Water Using Micellar-Enhanced Ultrafiltration. , 2014, , 173-202.		0
67	Hydrocracking of Heavy Oil by Means of In Situ Prepared Ultradispersed Nickel Nanocatalyst. Energy & Fuels, 2014, 28, 643-649.	5.1	61
68	Treatment of steam-assisted gravity drainage water using low coagulant dose and Fenton oxidation. Environmental Technology (United Kingdom), 2014, 35, 1630-1638.	2.2	8
69	In Situ Preparation of Alumina Nanoparticles in Heavy Oil and Their Thermal Cracking Performance. Energy & Fuels, 2014, 28, 6563-6569.	5.1	26
70	Electrochemical Behavior of Potassium Ferricyanide in Aqueous and (w/o) Microemulsion Systems in the Presence of Dispersed Nickel Nanoparticles. Separation Science and Technology, 2013, 48, 681-689.	2.5	26
71	Oxidation of asphaltenes adsorbed onto NiO nanoparticles. Applied Catalysis A: General, 2012, 445-446, 166-171.	4.3	26
72	Novel Nanoparticle-Based Drilling Fluid with Improved Characteristics. , 2012, , .		92

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73	Salting-Out Induced Aggregation for Selective Separation of Vanadyl-oxide Tetraphenyl-porphyrin from Heavy Oil. Energy & Fuels, 2012, 26, 4420-4425.	5.1	10
74	Method for Converting Demetallization Products into Dispersed Metal Oxide Nanoparticles in Heavy Oil. Energy & Fuels, 2012, 26, 810-815.	5.1	22
75	Adsorption of asphaltenes from heavy oil onto in situ prepared NiO nanoparticles. Journal of Colloid and Interface Science, 2012, 378, 64-69.	9.4	117
76	Maximizing the Uptake of Nickel Oxide Nanoparticles by AOT (W/O) Microemulsions. Statistical Science and Interdisciplinary Research, 2012, , 257-269.	0.0	0
77	Experimental and modeling study of MEUF removal of naphthenic acids. Desalination, 2011, 273, 352-358.	8.2	16
78	Scavenging H2S(g) from oil phases by means of ultradispersed sorbents. Journal of Colloid and Interface Science, 2010, 342, 253-260.	9.4	28
79	Ultradispersed particles in heavy oil: Part I, preparation and stabilization of iron oxide/hydroxide. Fuel Processing Technology, 2010, 91, 164-168.	7.2	39
80	Ultradispersed particles in heavy oil: Part II, sorption of H2S(g). Fuel Processing Technology, 2010, 91, 169-174.	7.2	30
81	Produced Water Treatment by Micellar-Enhanced Ultrafiltration. Environmental Science & Technology, 2010, 44, 1767-1772.	10.0	66
82	Improved MEUF removal of naphthenic acids from produced water. Journal of Membrane Science, 2009, 326, 161-167.	8.2	30
83	Role of naphthenic acid contaminants in the removal of p-xylene from synthetic produced water by MEUF. Chemical Engineering Research and Design, 2008, 86, 244-251.	5.6	15
84	Removal of Heavy Metals from Aqueous Solutions by Precipitation-Filtration Using Novel Organo-Phosphorus Ligands. Separation Science and Technology, 2008, 43, 3461-3475.	2.5	36
85	Nanoparticle Preparation Using the Single Microemulsions Scheme. Current Nanoscience, 2008, 4, 370-380.	1.2	73
86	Nanoparticle Uptake by (W/O) Microemulsions. Surfactant Science, 2008, , .	0.0	1
87	Study and Modeling of Iron Hydroxide Nanoparticle Uptake by AOT (w/o) Microemulsions. Langmuir, 2007, 23, 13093-13103.	3.5	29
88	Effect of microemulsion variables on copper oxide nanoparticle uptake by AOT microemulsions. Journal of Colloid and Interface Science, 2007, 316, 442-450.	9.4	41
89	Preparation of AgBr Nanoparticles in Microemulsions Via Reaction of AgNO3 with CTAB Counterion. Journal of Nanoparticle Research, 2007, 9, 787-796.	1.9	42
90	A Novel Approach for the Preparation of AgBr Nanoparticles from Their Bulk Solid Precursor Using CTAB Microemulsions. Langmuir, 2006, 22, 2264-2272.	3.5	47

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91	Preparation of iron oxide nanoparticles from FeCl3solid powder using microemulsions. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1324-1328.	1.8	26
92	A novel method for the preparation of silver chloride nanoparticles starting from their solid powder using microemulsions. Journal of Colloid and Interface Science, 2005, 288, 457-467.	9.4	80
93	Formation of silver bromide precipitate of nanoparticles in aÂsingle microemulsion utilizing the surfactant counterion. Journal of Colloid and Interface Science, 2004, 273, 426-434.	9.4	55
94	Formation of Silver Chloride Nanoparticles in Microemulsions by Direct Precipitation with the Surfactant Counterion. Langmuir, 2003, 19, 8467-8474.	3.5	69
95	Nucleophilic substitution sulfonation in emulsions: effect of the surfactant counterion and different decyl halide reactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 191, 241-252.	4.7	7
96	Nucleophilic substitution sulfonation in emulsions: Formation of sodium benzyl sulfonate. Canadian Journal of Chemical Engineering, 2001, 79, 744-750.	1.7	5
97	Nucleophilic Substitution Sulfonation in Microemulsions and Emulsions. Langmuir, 2000, 16, 9159-9167.	3.5	21