

Nashaat N Nassar

List of Publications by Year in descending order

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109
papers

5,672
citations

70961

41
h-index

82410

72
g-index

115
all docs

115
docs citations

115
times ranked

3600
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pressure on thermo-oxidative reactions of saturates, aromatics, and resins (S-Ar-R) from extra-heavy crude oil. <i>Fuel</i> , 2022, 311, 122596.	3.4	9
2	Enhanced Settling and Dewatering of Oil Sands Mature Fine Tailings with Titanomagnetite Nanoparticles Grafted with Polyacrylamide and Lauryl Sulfate. <i>ACS Applied Nano Materials</i> , 2022, 5, 7679-7695.	2.4	9
3	Density functional theory study on the catalytic dehydrogenation of methane on MoO ₃ (0 1 0) surface. <i>Computational and Theoretical Chemistry</i> , 2022, 1211, 113689.	1.1	5
4	A study on the characteristics of Algerian Hassi-Messaoud asphaltenes: solubility and precipitation. <i>Petroleum Science and Technology</i> , 2022, 40, 1279-1301.	0.7	5
5	Enhanced Oil Recovery from Austin Chalk Carbonate Reservoirs Using Faujasite-Based Nanoparticles Combined with Low-Salinity Water Flooding. <i>Energy & Fuels</i> , 2021, 35, 213-225.	2.5	16
6	Investigation of the interaction between nanoparticles, asphaltenes, and silica surfaces by real-time quartz crystal microbalance with dissipation. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2452-2466.	0.9	4
7	Simultaneous removal of silica and TOC from steam assisted gravity drainage (SAGD) produced water using iron-hydroxide-coated walnut shell filter media. <i>Journal of Water Process Engineering</i> , 2021, 43, 102016.	2.6	5
8	Nanoparticles as Adsorbents for Asphaltenes. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 97-129.	0.4	1
9	Nanoparticles for Cleaning up Oil Sands Process-Affected Water. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 445-496.	0.4	1
10	Enhanced thermal conductivity and reduced viscosity of aegirine-based VR/VGO nanofluids for enhanced thermal oil recovery application. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106569.	2.1	13
11	O-exchange evidenced in Ce-Ni-MFI catalysts during water gas shift reaction: Use of isotopic water (50% H ₂ ¹⁸ O - 50% H ₂ ¹⁶ O). <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118365.	10.8	0
12	Catalytic oxy-cracking of petroleum coke on copper silicate for production of humic acids. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118472.	10.8	22
13	Kinetic study of the thermo-oxidative decomposition of metformin by isoconversional and theoretical methods. <i>Thermochimica Acta</i> , 2020, 694, 178797.	1.2	8
14	Oxy-cracking technique for producing non-combustion products from residual feedstocks and cleaning up wastewater. <i>Applied Energy</i> , 2020, 280, 115890.	5.1	13
15	Integrating Silicate-Based Nanoparticles with Low-Salinity Water Flooding for Enhanced Oil Recovery in Sandstone Reservoirs. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16225-16239.	1.8	18
16	Size Effects of NiO Nanoparticles on the Competitive Adsorption of Quinolin-65 and Violanthrone-79: Implications for Oil Upgrading and Recovery. <i>ACS Applied Nano Materials</i> , 2020, 3, 5311-5326.	2.4	8
17	Thermo-Oxidative Decomposition Behaviors of Different Sources of <i>n</i> -C ₇ Asphaltenes under High-Pressure Conditions. <i>Energy & Fuels</i> , 2020, 34, 8740-8758.	2.5	30
18	How Effective Are Nanomaterials for the Removal of Heavy Metals from Water and Wastewater?. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	38

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19	Enhancing Chromium (VI) removal from synthetic and real tannery effluents by using diatomite-embedded nanopyroxene. <i>Chemosphere</i> , 2020, 252, 126523.	4.2	20
20	Hydroxyl-functionalized silicate-based nanofluids for enhanced oil recovery. <i>Fuel</i> , 2020, 269, 117462.	3.4	36
21	Metformin Removal from Water Using Fixed-bed Column of Silica-Alumina Composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 597, 124814.	2.3	16
22	Naturally derived pyroxene nanomaterials: an ore for wide applications. , 2020, , 731-774.		1
23	Nanopyroxene-Based Nanofluids for Enhanced Oil Recovery in Sandstone Cores at Reservoir Temperature. <i>Energy & Fuels</i> , 2019, 33, 877-890.	2.5	43
24	Enhancement of petroleum coke thermal reactivity using Oxy-cracking technique. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2794-2803.	0.9	11
25	A combined experimental and density functional theory study of metformin oxy-cracking for pharmaceutical wastewater treatment. <i>RSC Advances</i> , 2019, 9, 13403-13413.	1.7	24
26	Silica-alumina composite as an effective adsorbent for the removal of metformin from water. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102994.	3.3	51
27	Experimental and theoretical studies on the thermal decomposition of metformin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 433-441.	2.0	19
28	Oxy-Cracking Reaction for Enhanced Settling and Dewaterability of Oil Sands Tailings. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4988-4996.	1.8	11
29	Synergetic effects of cerium and nickel in Ce-Ni-MFI catalysts on low-temperature water-gas shift reaction. <i>Fuel</i> , 2019, 237, 361-372.	3.4	21
30	Oil spill cleanup employing magnetite nanoparticles and yeast-based magnetic bionanocomposite. <i>Journal of Environmental Management</i> , 2019, 230, 405-412.	3.8	55
31	Agricultural Land Use Change and its Drivers in the Palestinian Landscape Under Political Instability, the Case of Tulkarm City. <i>Journal of Borderlands Studies</i> , 2019, 34, 377-394.	0.8	10
32	Development and characterization of novel combinations of Ce-Ni-MFI solids for water gas shift reaction. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 140-151.	0.9	11
33	Effects of Surface Acidity and Polarity of SiO ₂ Nanoparticles on the Foam Stabilization Applied to Natural Gas Flooding in Tight Gas-Condensate Reservoirs. <i>Energy & Fuels</i> , 2018, 32, 5824-5833.	2.5	50
34	Conversion of petroleum coke into valuable products using oxy-cracking technique. <i>Fuel</i> , 2018, 215, 865-878.	3.4	45
35	Pyrolysis and Oxidation of Asphaltene-Born Coke-like Residue Formed onto in Situ Prepared NiO Nanoparticles toward Advanced in Situ Combustion Enhanced Oil Recovery Processes. <i>Energy & Fuels</i> , 2018, 32, 5033-5044.	2.5	33
36	Fixed-bed column studies of total organic carbon removal from industrial wastewater by use of diatomite decorated with polyethylenimine-functionalized pyroxene nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 28-42.	5.0	40

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37	Magnetic Nanostructured White Graphene for Oil Spill and Water Cleaning. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13065-13076.	1.8	18
38	Mechanism of Hierarchical Porosity Development in Hexagonal Boron Nitride Nanocrystalline Microstructures for Biomedical and Industrial Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 4491-4501.	2.4	9
39	Effects of glycerol on the minimization of water readsorption on sub-bituminous coal. <i>Drying Technology</i> , 2017, 35, 249-260.	1.7	9
40	Experimental and computational modeling studies on silica-embedded NiO/MgO nanoparticles for adsorptive removal of organic pollutants from wastewater. <i>RSC Advances</i> , 2017, 7, 14021-14038.	1.7	18
41	Nanosize effects of NiO nanosorbents on adsorption and catalytic thermo-oxidative decomposition of vacuum residue asphaltenes. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1864-1874.	0.9	25
42	Preparation and characterization of polyethylenimine-functionalized pyroxene nanoparticles and its application in wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 525, 20-30.	2.3	31
43	Catalytic Steam Gasification of Athabasca Visbroken Residue by NiO-Kaolin-Based Catalysts in a Fixed-Bed Reactor. <i>Energy & Fuels</i> , 2017, 31, 7396-7404.	2.5	4
44	A heat-transfer laboratory experiment with shell-and-tube condenser. <i>Education for Chemical Engineers</i> , 2017, 19, 38-47.	2.8	7
45	Polyethylenimine-functionalized pyroxene nanoparticles embedded on Diatomite for adsorptive removal of dye from textile wastewater in a fixed-bed column. <i>Chemical Engineering Journal</i> , 2017, 320, 389-404.	6.6	90
46	The effects of SiO ₂ nanoparticles on the thermal stability and rheological behavior of hydrolyzed polyacrylamide based polymeric solutions. <i>Journal of Petroleum Science and Engineering</i> , 2017, 159, 841-852.	2.1	99
47	Synthesis, solvatochromism and crystal structure of trans -[Cu(Et ₂ NCH ₂ CH ₂ NH ₂) ₂ .H ₂ O](NO ₃) ₂ complex: Experimental with DFT combination. <i>Journal of Molecular Structure</i> , 2017, 1148, 328-338.	1.8	22
48	Experimental and theoretical studies on oxy-cracking of Quinolin-65 as a model molecule for residual feedstocks. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 703-719.	1.9	16
49	Nanopyroxene Grafting with β -Cyclodextrin Monomer for Wastewater Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42393-42407.	4.0	18
50	A combined experimental and computational modeling study on adsorption of propionic acid onto silica-embedded NiO/MgO nanoparticles. <i>Chemical Engineering Journal</i> , 2017, 327, 666-677.	6.6	15
51	Silica Nanoparticle Enhancement in the Efficiency of Surfactant Flooding of Heavy Oil in a Glass Micromodel. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8528-8534.	1.8	77
52	Effects of the size of NiO nanoparticles on the catalytic oxidation of Quinolin-65 as an asphaltene model compound. <i>Fuel</i> , 2017, 207, 423-437.	3.4	27
53	Kinetics and mechanisms of the catalytic thermal cracking of asphaltenes adsorbed on supported nanoparticles. <i>Petroleum Science</i> , 2016, 13, 561-571.	2.4	49
54	Role of Particle Size and Surface Acidity of Silica Gel Nanoparticles in Inhibition of Formation Damage by Asphaltene in Oil Reservoirs. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6122-6132.	1.8	102

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55	Effects of resin I on the catalytic oxidation of n-C ₇ asphaltenes in the presence of silica-based nanoparticles. RSC Advances, 2016, 6, 74630-74642.	1.7	29
56	Theoretical and thermogravimetric study on the thermo-oxidative decomposition of Quinolin-65 as an asphaltene model molecule. RSC Advances, 2016, 6, 54418-54430.	1.7	20
57	The effect of the nanosize on surface properties of NiO nanoparticles for the adsorption of Quinolin-65. Physical Chemistry Chemical Physics, 2016, 18, 6839-6849.	1.3	43
58	Importance of the Adsorption Method Used for Obtaining the Nanoparticle Dosage for Asphaltene-Related Treatments. Energy & Fuels, 2016, 30, 2052-2059.	2.5	79
59	Effects of Resin I on Asphaltene Adsorption onto Nanoparticles: A Novel Method for Obtaining Asphaltenes/Resin Isotherms. Energy & Fuels, 2016, 30, 264-272.	2.5	93
60	Maghemite nanosorbents for methylene blue adsorption and subsequent catalytic thermo-oxidative decomposition: Computational modeling and thermodynamics studies. Journal of Colloid and Interface Science, 2016, 461, 396-408.	5.0	52
61	Effect of nanosized and surface-structural-modified nano-pyroxene on adsorption of violanthrone-79. RSC Advances, 2016, 6, 64482-64493.	1.7	25
62	Adsorptive removal of dyes from synthetic and real textile wastewater using magnetic iron oxide nanoparticles: Thermodynamic and mechanistic insights. Canadian Journal of Chemical Engineering, 2015, 93, 1965-1974.	0.9	47
63	A New Model for Describing the Adsorption of Asphaltenes on Porous Media at a High Pressure and Temperature under Flow Conditions. Energy & Fuels, 2015, 29, 4210-4221.	2.5	35
64	Influence of Asphaltene Aggregation on the Adsorption and Catalytic Behavior of Nanoparticles. Energy & Fuels, 2015, 29, 1610-1621.	2.5	65
65	Development of a Population Balance Model to Describe the Influence of Shear and Nanoparticles on the Aggregation and Fragmentation of Asphaltene Aggregates. Industrial & Engineering Chemistry Research, 2015, 54, 8201-8211.	1.8	106
66	Effect of oxide support on Ni-Pd bimetallic nanocatalysts for steam gasification of n-C ₇ asphaltenes. Fuel, 2015, 156, 110-120.	3.4	57
67	Catalytic steam gasification of n-C ₅ asphaltenes by kaolin-based catalysts in a fixed-bed reactor. Applied Catalysis A: General, 2015, 507, 149-161.	2.2	12
68	Adsorptive removal of oil spill from oil-in-fresh water emulsions by hydrophobic alumina nanoparticles functionalized with petroleum vacuum residue. Journal of Colloid and Interface Science, 2014, 425, 168-177.	5.0	83
69	<i>In Situ</i> Upgrading of Athabasca Bitumen Using Multimetallic Ultradispersed Nanocatalysts in an Oil Sands Packed-Bed Column: Part 1. Produced Liquid Quality Enhancement. Energy & Fuels, 2014, 28, 1338-1350.	2.5	46
70	Treatment of olive mill based wastewater by means of magnetic nanoparticles: Decolourization, dephenolization and COD removal. Environmental Nanotechnology, Monitoring and Management, 2014, 1-2, 14-23.	1.7	46
71	Nanoparticle technology for heavy oil in-situ upgrading and recovery enhancement: Opportunities and challenges. Applied Energy, 2014, 133, 374-387.	5.1	294
72	<i>In Situ</i> Upgrading of Athabasca Bitumen Using Multimetallic Ultradispersed Nanocatalysts in an Oil Sands Packed-Bed Column: Part 2. Solid Analysis and Gaseous Product Distribution. Energy & Fuels, 2014, 28, 1351-1361.	2.5	30

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73	Comparing kinetics and mechanism of adsorption and thermo-oxidative decomposition of Athabasca asphaltenes onto TiO ₂ , ZrO ₂ , and CeO ₂ nanoparticles. <i>Applied Catalysis A: General</i> , 2014, 484, 161-171.	2.2	84
74	Removal of oil from oil-in-saltwater emulsions by adsorption onto nano-alumina functionalized with petroleum vacuum residue. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 58-67.	5.0	55
75	A Novel Solid-Liquid Equilibrium Model for Describing the Adsorption of Associating Asphaltene Molecules onto Solid Surfaces Based on the "Chemical Theory". <i>Energy & Fuels</i> , 2014, 28, 4963-4975.	2.5	92
76	Comparative study on thermal cracking of Athabasca bitumen. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 465-472.	2.0	27
77	Clarifying the catalytic role of NiO nanoparticles in the oxidation of asphaltenes. <i>Applied Catalysis A: General</i> , 2013, 462-463, 116-120.	2.2	22
78	Development of a support for a NiO catalyst for selective adsorption and post-adsorption catalytic steam gasification of thermally converted asphaltenes. <i>Catalysis Today</i> , 2013, 207, 112-118.	2.2	33
79	Adsorption and Subsequent Oxidation of Colombian Asphaltenes onto Nickel and/or Palladium Oxide Supported on Fumed Silica Nanoparticles. <i>Energy & Fuels</i> , 2013, 27, 7336-7347.	2.5	112
80	Kinetics of the catalytic thermo-oxidation of asphaltenes at isothermal conditions on different metal oxide nanoparticle surfaces. <i>Catalysis Today</i> , 2013, 207, 127-132.	2.2	69
81	Enhanced Heavy Oil Recovery by in Situ Prepared Ultradispersed Multimetallic Nanoparticles: A Study of Hot Fluid Flooding for Athabasca Bitumen Recovery. <i>Energy & Fuels</i> , 2013, 27, 2194-2201.	2.5	156
82	Nanoparticles for Inhibition of Asphaltenes Damage: Adsorption Study and Displacement Test on Porous Media. <i>Energy & Fuels</i> , 2013, 27, 2899-2907.	2.5	179
83	Modeling and Prediction of Asphaltene Adsorption Isotherms Using Polanyi's Modified Theory. <i>Energy & Fuels</i> , 2013, 27, 2908-2914.	2.5	42
84	A novel laboratory experiment for demonstrating boiling heat transfer. <i>Education for Chemical Engineers</i> , 2012, 7, e210-e218.	2.8	8
85	Transport Behavior of Multimetallic Ultradispersed Nanoparticles in an Oil-Sands-Packed Bed Column at a High Temperature and Pressure. <i>Energy & Fuels</i> , 2012, 26, 1645-1655.	2.5	80
86	Thermogravimetric studies on catalytic effect of metal oxide nanoparticles on asphaltene pyrolysis under inert conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1327-1332.	2.0	67
87	Rapid Adsorption of Methylene Blue from Aqueous Solutions by Goethite Nanoadsorbents. <i>Environmental Engineering Science</i> , 2012, 29, 790-797.	0.8	46
88	Kinetics, equilibrium and thermodynamic studies on the adsorptive removal of nickel, cadmium and cobalt from wastewater by superparamagnetic iron oxide nanoadsorbents. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1231-1238.	0.9	69
89	Iron oxide nanoparticles for rapid adsorption and enhanced catalytic oxidation of thermally cracked asphaltenes. <i>Fuel</i> , 2012, 95, 257-262.	3.4	139
90	Maximizing the Uptake of Nickel Oxide Nanoparticles by AOT (W/O) Microemulsions. <i>Statistical Science and Interdisciplinary Research</i> , 2012, , 257-269.	0.0	0

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91	Effect of the Particle Size on Asphaltene Adsorption and Catalytic Oxidation onto Alumina Particles. Energy & Fuels, 2011, 25, 3961-3965.	2.5	94
92	Application of Nanotechnology for Heavy Oil Upgrading: Catalytic Steam Gasification/Cracking of Asphaltenes. Energy & Fuels, 2011, 25, 1566-1570.	2.5	180
93	Metal Oxide Nanoparticles for Asphaltene Adsorption and Oxidation. Energy & Fuels, 2011, 25, 1017-1023.	2.5	255
94	Design of a laboratory experiment on heat transfer in an agitated vessel. Education for Chemical Engineers, 2011, 6, e83-e89.	2.8	15
95	Comparative oxidation of adsorbed asphaltenes onto transition metal oxide nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 145-149.	2.3	123
96	Effect of surface acidity and basicity of aluminas on asphaltene adsorption and oxidation. Journal of Colloid and Interface Science, 2011, 360, 233-238.	5.0	126
97	Scavenging H ₂ S(g) from oil phases by means of ultradispersed sorbents. Journal of Colloid and Interface Science, 2010, 342, 253-260.	5.0	28
98	Rapid removal and recovery of Pb(II) from wastewater by magnetic nanoadsorbents. Journal of Hazardous Materials, 2010, 184, 538-546.	6.5	489
99	Ultradispersed particles in heavy oil: Part I, preparation and stabilization of iron oxide/hydroxide. Fuel Processing Technology, 2010, 91, 164-168.	3.7	39
100	Ultradispersed particles in heavy oil: Part II, sorption of H ₂ S(g). Fuel Processing Technology, 2010, 91, 169-174.	3.7	30
101	Study and Modeling of Metal Oxide Solubilization in (w/o) Microemulsions. Journal of Dispersion Science and Technology, 2010, 31, 1714-1720.	1.3	5
102	Asphaltene Adsorption onto Alumina Nanoparticles: Kinetics and Thermodynamic Studies. Energy & Fuels, 2010, 24, 4116-4122.	2.5	202
103	Kinetics, Mechanistic, Equilibrium, and Thermodynamic Studies on the Adsorption of Acid Red Dye from Wastewater by Fe ₂ O ₃ Nanoadsorbents. Separation Science and Technology, 2010, 45, 1092-1103.	1.3	103
104	Capturing H ₂ S(g) by In Situ-Prepared Ultradispersed Metal Oxide Particles in an Oilsand-Packed Bed Column. Energy & Fuels, 2010, 24, 5903-5906.	2.5	18
105	Nanoparticle Preparation Using the Single Microemulsions Scheme. Current Nanoscience, 2008, 4, 370-380.	0.7	73
106	Study and Modeling of Iron Hydroxide Nanoparticle Uptake by AOT (w/o) Microemulsions. Langmuir, 2007, 23, 13093-13103.	1.6	29
107	Effect of microemulsion variables on copper oxide nanoparticle uptake by AOT microemulsions. Journal of Colloid and Interface Science, 2007, 316, 442-450.	5.0	41
108	Preparation of iron oxide nanoparticles from FeCl ₃ solid powder using microemulsions. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1324-1328.	0.8	26

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109	Influence of CTAB-Grafted Faujasite Nanoparticles on the Dynamic Interfacial Tension of Oil/Water Systems. Energy & Fuels, 0, , .	2.5	6