Alimorad Rashidi

List of Publications by Year
in descending order

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382 papers	14,274 citations	20817 60 h-index	36028 97 g-index
389 all docs	389 docs citations	389 times ranked	13368 citing authors

#	Article	IF	Citations
1	Exploring corrosion protection properties of solvent based epoxy-graphene oxide nanocomposite coatings on mild steel. Corrosion Science, 2017, 115, 78-92.	6.6	457
2	Numerical study of forced convective heat transfer of Nanofluids: Comparison of different approaches. International Communications in Heat and Mass Transfer, 2010, 37, 74-78.	5.6	317
3	A novel soluble nano-catalysts in dieselâ€“biodiesel fuel blends to improve diesel engines performance and reduce exhaust emissions. Fuel, 2015, 139, 374-382.	6.4	245
4	Performance evaluation and nanofluid using capability study of a solar parabolic trough collector. Energy Conversion and Management, 2015, 89, 368-375.	9.2	233
5	Investigating the effect of SiO2-graphene oxide hybrid as inorganic nanofiller on corrosion protection properties of epoxy coatings. Surface and Coatings Technology, 2017, 311, 282-294.	4.8	217
6	Excellent corrosion protection performance of epoxy composite coatings filled with amino-silane functionalized graphene oxide. Surface and Coatings Technology, 2017, 317, 1-9.	4.8	214
7	Effect of CNT structures on thermal conductivity and stability of nanofluid. International Journal of Heat and Mass Transfer, 2012, 55, 1529-1535.	4.8	200
8	Distinctive roles of silane coupling agents on the corrosion inhibition performance of graphene oxide in epoxy coatings. Progress in Organic Coatings, 2017, 111, 47-56.	3.9	198
9	Synthesis of spherical silica/multiwall carbon nanotubes hybrid nanostructures and investigation of thermal conductivity of related nanofluids. Thermochimica Acta, 2012, 549, 87-94.	2.7	196
10	Evaluation of CO2 adsorption with eucalyptus wood based activated carbon modified by ammonia solution through heat treatment. Chemical Engineering Journal, 2014, 254, 503-513.	12.7	193
11	Preparation and thermal properties of oil-based nanofluid from multi-walled carbon nanotubes and engine oil as nano-lubricant. International Communications in Heat and Mass Transfer, 2013, 46, 142-147.	5.6	183
12	Convective heat transfer enhancement of graphene nanofluids in shell and tube heat exchanger. Experimental Thermal and Fluid Science, 2014, 53, 136-141.	2.7	179
13	Preparation and Mechanical Properties of Graphene Oxide: Cement Nanocomposites. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	177
14	Experimental investigation of laminar convective heat transfer and pressure drop of water-based Al2O3 nanofluids in fully developed flow regime. Experimental Thermal and Fluid Science, 2013, 44, 483-489.	2.7	176
15	Enhanced thermal conductivities of graphene oxide nanofluids. International Communications in Heat and Mass Transfer, 2014, 57, 128-131.	5.6	175
16	Fabrication and characterization of a polysulfone-graphene oxide nanocomposite membrane for arsenate rejection from water. Journal of Environmental Health Science & Engineering, 2015, 13, 61.	3.0	171
17	The effect of functionalisation method on the stability and the thermal conductivity of nanofluid hybrids of carbon nanotubes/gamma alumina. Ceramics International, 2013, 39, 3885-3891.	4.8	168
18	Effect of dispersion method on thermal conductivity and stability of nanofluid. Experimental Thermal and Fluid Science, 2011, 35, 717-723.	2.7	156

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19	The effects of temperature, volume fraction and vibration time on the thermo-physical properties of a carbon nanotube suspension (carbon nanofluid). Nanotechnology, 2008, 19, 315701.	2.6	155
20	Adsorptive removal of CO2 on highly microporous activated carbons prepared from Eucalyptus camaldulensis wood: Effect of chemical activation. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 579-588.	5.3	154
21	Synthesis and adsorption performance of a modified micro-mesoporous MIL-101(Cr) for VOCs removal at ambient conditions. Chemical Engineering Journal, 2018, 341, 164-174.	12.7	150
22	Adsorption of 2-nitrophenol by multi-wall carbon nanotubes from aqueous solutions. Applied Surface Science, 2010, 256, 4447-4455.	6.1	147
23	Polymer/Inorganic nanocomposite coatings with superior corrosion protection performance: A review. Journal of Industrial and Engineering Chemistry, 2020, 88, 29-57.	5.8	147
24	The effect of nanosilica on the physical properties of oil well cement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 538, 288-294.	5.6	137
25	Experimental study on the heat transfer enhancement of MWNT-water nanofluid in a shell and tube heat exchanger. International Communications in Heat and Mass Transfer, 2012, 39, 108-111.	5.6	128
26	Stability and activity improvement of horseradish peroxidase by covalent immobilization on functionalized reduced graphene oxide and biodegradation of high phenol concentration. International Journal of Biological Macromolecules, 2018, 106, 1314-1322.	7.5	127
27	Convection heat transfer of functionalized MWNT in aqueous fluids in laminar and turbulent flow at the entrance region. International Communications in Heat and Mass Transfer, 2010, 37, 717-723.	5.6	116
28	Experimental investigation of turbulent flow and convective heat transfer characteristics of alumina water nanofluids in fully developed flow regime. International Communications in Heat and Mass Transfer, 2012, 39, 1272-1278.	5.6	110
29	Nanostructured mixed transition metal oxides for high performance asymmetric supercapacitors: Facile synthetic strategy. International Journal of Hydrogen Energy, 2017, 42, 12384-12395.	7.1	110
30	Progress toward a novel methane gas sensor based on SnO2 nanorods-nanoporous graphene hybrid. Sensors and Actuators B: Chemical, 2019, 281, 96-106.	7.8	107
31	Preparation of nanofluids from functionalized Graphene by new alkaline method and study on the thermal conductivity and stability. International Communications in Heat and Mass Transfer, 2013, 42, 89-94.	5.6	105
32	Effect of process conditions on product yield and composition of fast pyrolysis of Eucalyptus grandis in fluidized bed reactor. Journal of Industrial and Engineering Chemistry, 2014, 20, 2594-2602.	5.8	104
33	Effect of an emission-reducing soluble hybrid nanocatalyst in diesel/biodiesel blends on exergetic performance of a DI diesel engine. Renewable Energy, 2016, 93, 353-368.	8.9	99
34	Thermal, mechanical and acoustic damping properties of flexible openâ€cell polyurethane/multiâ€walled carbon nanotube foams: effect of surface functionality of nanotubes. Polymer International, 2011, 60, 475-482.	3.1	98
35	Ultradeep hydrodesulfurization of diesel fuels using highly efficient nanoalumina-supported catalysts: Impact of support, phosphorus, and/or boron on the structure and catalytic activity. Journal of Catalysis, 2013, 299, 321-335.	6.2	96
36	Preparation and evaluation of nanocrystalline cellulose aerogels from raw cotton and cotton stalk. Industrial Crops and Products, 2016, 93, 203-211.	5.2	93

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37	Preparation of nanofilter from carbon nanotubes for application in virus removal from water. Desalination, 2009, 238, 271-280.	8.2	89
38	Thermal and rheological properties of oil-based nanofluids from different carbon nanostructures. International Communications in Heat and Mass Transfer, 2013, 48, 178-182.	5.6	89
39	Carbonate and sandstone reservoirs wettability improvement without using surfactants for Chemical Enhanced Oil Recovery (C-EOR). Fuel, 2015, 153, 408-415.	6.4	86
40	The role of different parameters on the stability and thermal conductivity of carbon nanotube/water nanofluids. International Communications in Heat and Mass Transfer, 2010, 37, 319-323.	5.6	85
41	Investigating the rheological properties of nanofluids of water/hybrid nanostructure of spherical silica/MWCNT. Thermochimica Acta, 2014, 578, 53-58.	2.7	84
42	A novel bio-nano emulsion fuel based on biodegradable nanoparticles to improve diesel engines performance and reduce exhaust emissions. Renewable Energy, 2018, 125, 64-72.	8.9	82
43	A novel nanofluid based on sulfonated graphene for enhanced oil recovery. Journal of Molecular Liquids, 2018, 271, 795-806.	4.9	82
44	Experimental investigation of heat transfer enhancement of Fe2O3-CNT/water magnetic nanofluids under laminar, transient and turbulent flow inside a horizontal shell and tube heat exchanger. Experimental Thermal and Fluid Science, 2016, 72, 182-189.	2.7	81
45	Single-wall carbon nanotubes synthesized using organic additives to Coâ€“Mo catalysts supported on nanoporous MgO. Nanotechnology, 2007, 18, 315605.	2.6	80
46	Synthesize and characterization of graphene nanosheets with high surface area and nano-porous structure. Applied Surface Science, 2013, 276, 672-681.	6.1	79
47	The effect of nanoparticles on the heat transfer properties of drilling fluids. Journal of Petroleum Science and Engineering, 2016, 146, 183-190.	4.2	78
48	Corrosion protection properties of novel epoxy nanocomposite coatings containing silane functionalized graphene quantum dots. Journal of Alloys and Compounds, 2018, 731, 1112-1118.	5.5	77
49	Effects of surface modification on the dispersion and thermal conductivity of CNT/water nanofluids. International Communications in Heat and Mass Transfer, 2014, 54, 1-7.	5.6	76
50	Modification of single wall carbon nanotubes (SWNT) for hydrogen storage. International Journal of Hydrogen Energy, 2010, 35, 9489-9495.	7.1	75
51	A novel approach for energy and water conservation in wet cooling towers by using MWNTs and nanoporous graphene nanofluids. Energy Conversion and Management, 2016, 109, 10-18.	9.2	75
52	Simultaneous absorption of carbon dioxide (CO 2) and hydrogen sulfide (H 2 S) from CO 2 â€“H 2 Sâ€“CH 4 gas mixture using amine-based nanofluids in a wetted wall column. Journal of Natural Gas Science and Engineering, 2016, 28, 410-417.	4.4	72
53	Preparation of highly active manganese oxides supported on functionalized MWNTs for low temperature NOx reduction with NH3. Applied Surface Science, 2013, 279, 250-259.	6.1	71
54	Investigation of Fe 3 O 4 /Graphene nanohybrid heat transfer properties: Experimental approach. International Communications in Heat and Mass Transfer, 2017, 87, 30-39.	5.6	71

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55	The effect of functionalized group concentration on the stability and thermal conductivity of carbon nanotube fluid as heat transfer media. International Communications in Heat and Mass Transfer, 2011, 38, 513-517.	5.6	69
56	Facile and economical preparation method of nanoporous graphene/silica nanohybrid and evaluation of its Pickering emulsion properties for Chemical Enhanced oil Recovery (C-EOR). Fuel, 2017, 206, 453-466.	6.4	67
57	Facile and high-yield synthesis of improved MIL-101(Cr) metal-organic framework with exceptional CO2 and H2S uptake; the impact of excess ligand-cluster. Microporous and Mesoporous Materials, 2019, 279, 153-164.	4.4	67
58	Selective hydrogen sulfide (H2S) sensors based on molybdenum trioxide (MoO3) nanoparticle decorated reduced graphene oxide. Materials Science in Semiconductor Processing, 2015, 38, 93-100.	4.0	66
59	Adsorption of cadmium using modified zeolite-supported nanoscale zero-valent iron composites as a reactive material for PRBs. Science of the Total Environment, 2020, 736, 139570.	8.0	65
60	Experimental evaluation of engine oil properties containing copper oxide nanoparticles as a nanoadditive. International Journal of Industrial Chemistry, 2013, 4, 1.	3.1	64
61	N-doped reduced graphene oxide aerogel for the selective adsorption of oil pollutants from water: Isotherm and kinetic study. Journal of Industrial and Engineering Chemistry, 2018, 61, 416-426.	5.8	64
62	Novel asphaltene-derived nanoporous carbon with N-S-rich micro-mesoporous structure for superior gas adsorption: Experimental and DFT study. Chemical Engineering Journal, 2019, 358, 1126-1138.	12.7	64
63	Synthesis of N-doped nanoporous carbon from walnut shell for enhancing CO2 adsorption capacity and separation. Journal of Environmental Chemical Engineering, 2018, 6, 6653-6663.	6.7	62
64	Efficient and facile one pot carboxylation of multiwalled carbon nanotubes by using oxidation with ozone under mild conditions. Applied Surface Science, 2009, 256, 631-635.	6.1	61
65	Synthesis and characterization of MoO3 nanostructures by solution combustion method employing morphology and size control. Journal of Nanoparticle Research, 2010, 12, 1509-1521.	1.9	60
66	Fabrication of nanoporous graphene by chemical vapor deposition (CVD) and its application in oil spill removal as a recyclable nanosorbent. Journal of Industrial and Engineering Chemistry, 2015, 22, 8-18.	5.8	59
67	Populus wood biomass-derived graphene for high CO2 capture at atmospheric pressure and estimated cost of production. Chemical Engineering Research and Design, 2018, 113, 97-108.	5.6	59
68	Kinetics of methane decomposition to COx-free hydrogen and carbon nanofiber over Niâ€“Cu/MgO catalyst. International Journal of Hydrogen Energy, 2010, 35, 9479-9488.	7.1	56
69	Morphological investigations of nanostructured V₂O₅ over graphene used for the ODHP reaction: from synthesis to physiochemical evaluations. Catalysis Science and Technology, 2015, 5, 910-924.	4.1	54
70	Rheological and thermophysical properties of ultra-stable kerosene-based Fe3O4/Graphene nanofluids for energy conservation. Energy Conversion and Management, 2016, 128, 134-144.	9.2	52
71	Preparation and investigation of the heat transfer properties of a novel nanofluid based on graphene quantum dots. Energy Conversion and Management, 2017, 153, 215-223.	9.2	52
72	Cooling performance of a nanofluid flow in a heat sink microchannel with axial conduction effect. Applied Physics A: Materials Science and Processing, 2014, 117, 1821-1833.	2.3	51

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73	An investigation of the oxidative dehydrogenation of propane kinetics over a vanadiumâ€“graphene catalyst aiming at minimizing of the COx species. Chemical Engineering Journal, 2014, 250, 14-24.	12.7	50
74	Kinetic modeling of oxidative dehydrogenation of propane (ODHP) over a vanadiumâ€“graphene catalyst: Application of the DOE and ANN methodologies. Journal of Industrial and Engineering Chemistry, 2014, 20, 2236-2247.	5.8	50
75	Single-step scalable synthesis of three-dimensional highly porous graphene with favorable methane adsorption. Chemical Engineering Journal, 2016, 304, 784-792.	12.7	50
76	Highly efficient SO3Ag-functionalized MIL-101(Cr) for adsorptive desulfurization of the gas stream: Experimental and DFT study. Chemical Engineering Journal, 2019, 363, 73-83.	12.7	50
77	Effect of nano-particles on the performance and emission of a diesel engine using biodiesel-diesel blend. International Journal of Automotive and Mechanical Engineering, 2015, 12, 3097-3108.	0.9	50
78	Functional group effect on carbon nanotube (CNT)-supported cobalt catalysts in Fischerâ€“Tropsch synthesis activity, selectivity and stability. Fuel, 2014, 117, 1045-1051.	6.4	49
79	Application of functionalized silica-graphene nanohybrid for the enhanced oil recovery performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 556, 253-265.	4.7	48
80	Antifouling nanocomposite polymer coatings for marine applications: A review on experiments, mechanisms, and theoretical studies. Journal of Materials Science and Technology, 2022, 118, 73-113.	10.7	48
81	Ultrasound-assisted dispersive solid phase extraction of cadmium(II) and lead(II) using a hybrid nanoadsorbent composed of graphene and the zeolite clinoptilolite. Mikrochimica Acta, 2015, 182, 1263-1272.	5.0	47
82	Newly Prepared Nano Gamma Alumina and Its Application in Enhanced Oil Recovery: An Approach to Low-Salinity Waterflooding. Energy & Fuels, 2016, 30, 3791-3797.	5.1	47
83	Conduction heat transfer characteristics and dispersion behaviour of carbon nanofluids as a function of different parameters. Journal of Experimental Nanoscience, 2009, 4, 347-363.	2.4	46
84	Ultrasound assisted-dispersive-ionic liquid-micro-solid phase extraction based on carboxyl-functionalized nanoporous graphene for speciation and determination of trace inorganic and organic mercury species in water and caprine blood samples. Microchemical Journal, 2017, 130, 245-254.	4.5	46
85	Physical and mechanical properties of graphene oxide/polyethersulfone nanocomposites. Polymers for Advanced Technologies, 2014, 25, 322-328.	3.2	44
86	A novel highly sensitive and selective H2S gas sensor at low temperatures based on SnO2 quantum dots-C60 nanohybrid: Experimental and theory study. Talanta, 2018, 188, 531-539.	5.5	44
87	A review on application of carbon nanostructures as nanofiller in corrosion-resistant organic coatings. Journal of Coatings Technology Research, 2020, 17, 19-55.	2.5	44
88	Preparation of amine functionalized UiO-66, mixing with aqueous N -Methyldiethanolamine and application on CO 2 solubility. Journal of Natural Gas Science and Engineering, 2016, 28, 651-659.	4.4	43
89	Innovative separation and preconcentration technique of coagulating homogenous dispersive micro solid phase extraction exploiting graphene oxide nanosheets. Analytica Chimica Acta, 2016, 902, 33-42.	5.4	43
90	Vanadium Pentoxide Catalyst over Carbon-Based Nanomaterials for the Oxidative Dehydrogenation of Propane. Industrial & Engineering Chemistry Research, 2013, 52, 16128-16141.	3.7	42

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91	Enhanced methanol electro-oxidation activity of Pt/MWCNTs electro-catalyst using manganese oxide deposited on MWCNTs. Electrochimica Acta, 2014, 147, 192-200.	5.2	42
92	Synthesis of a modified HF-free MIL-101(Cr) nanoadsorbent with enhanced H2S/CH4, CO2/CH4, and CO2/N2 selectivity. Journal of Environmental Chemical Engineering, 2019, 7, 102946.	6.7	42
93	Study of the Rod-Like and spherical nano-ZnO morphology on H2S removal from natural gas. Applied Surface Science, 2010, 257, 434-439.	6.1	41
94	Nanoporous graphene and graphene oxide-coated polyurethane sponge as a highly efficient, superhydrophobic, and reusable oil spill absorbent. Journal of Environmental Chemical Engineering, 2017, 5, 5025-5032.	6.7	41
95	Thermophysical properties of water ethylene glycol (WEG) mixture-based Fe3O4 nanofluids at low concentration and temperature. Journal of Molecular Liquids, 2020, 302, 112606.	4.9	41
96	A novel selective H2S sensor using dodecylamine and ethylenediamine functionalized graphene oxide. Journal of Industrial and Engineering Chemistry, 2015, 29, 97-103.	5.8	40
97	Removal of 4-chlorophenol from water using different carbon nanostructures: A comparison study. Journal of Molecular Liquids, 2018, 249, 877-885.	4.9	40
98	Lignocellulose-based adsorbents: A spotlight review of the effective parameters on carbon dioxide capture process. Chemosphere, 2020, 246, 125756.	8.2	40
99	Ultrasound assisted-dispersive-micro-solid phase extraction based on bulky amino bimodal mesoporous silica nanoparticles for speciation of trace manganese (II)/(VII) ions in water samples. Microchemical Journal, 2016, 124, 637-645.	4.5	39
100	On the application of NiO nanoparticles to mitigate in situ asphaltene deposition in carbonate porous matrix. Applied Nanoscience (Switzerland), 2016, 6, 71-81.	3.1	39
101	Potential of Acid-Activated Bentonite and SO3H-Functionalized MWCNTs for Biodiesel Production From Residual Olive Oil Under Biorefinery Scheme. Frontiers in Energy Research, 2018, 6, .	2.3	39
102	Nanorod carbon nitride as a carbo catalyst for selective oxidation of hydrogen sulfide to sulfur. Journal of Hazardous Materials, 2019, 364, 218-226.	12.4	39
103	Rheological and Mechanical Characterization of Multi-Walled Carbon Nanotubes/Polypropylene Nanocomposites. Journal of Macromolecular Science - Physics, 2008, 47, 1176-1187.	1.0	38
104	Adsorption of reactive blue 29 dye from aqueous solution by multiwall carbon nanotubes. Desalination and Water Treatment, 2013, 51, 7655-7662.	1.0	38
105	Ultrafiltration of natural organic matter from water by vertically aligned carbon nanotube membrane. Journal of Environmental Health Science & Engineering, 2015, 13, 51.	3.0	38
106	Preconcentration and separation of ultra-trace amounts of lead using ultrasound-assisted cloud point-micro solid phase extraction based on amine functionalized silica aerogel nanoadsorbent. Microchemical Journal, 2016, 125, 236-241.	4.5	38
107	Graphene-silica hybrid in efficient preconcentration of heavy metal ions via novel single-step method of moderate centrifugation-assisted dispersive micro solid phase extraction. Talanta, 2016, 150, 476-484.	5.5	38
108	A high performance multi-walled carbon nanotube-supported palladium catalyst in selective hydrogenation of acetylene-ethylene mixtures. Applied Catalysis A: General, 2011, 399, 184-190.	4.3	37

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109	Experimental research on heat transfer of water in tubes with conical ring inserts in transient regime. International Communications in Heat and Mass Transfer, 2011, 38, 668-671.	5.6	37
110	Graphene based catalysts for deep hydrodesulfurization of naphtha and diesel fuels: A physiochemical study. Fuel, 2016, 165, 468-476.	6.4	37
111	Preference of multi-walled carbon nanotube (MWCNT) to single-walled carbon nanotube (SWCNT) and activated carbon for preparing silica nanohybrid pickering emulsion for chemical enhanced oil recovery (C-EOR). Journal of Solid State Chemistry, 2017, 245, 164-173.	2.9	37
112	Fixedâ€Bed Multiâ€Tubular Reactors for Oxidative Dehydrogenation in Ethylene Process. Chemical Engineering and Technology, 2013, 36, 1691-1700.	1.5	35
113	Preparation and microstructural properties study on cement composites reinforced with multi-walled carbon nanotubes. Journal of Composite Materials, 2015, 49, 85-98.	2.4	35
114	Synthesis, processing, characterization, and applications of red mud/carbon nanotube composites. Ceramics International, 2016, 42, 16738-16743.	4.8	35
115	N-doped CNT nanocatalyst prepared from camphor and urea for gas phase desulfurization: Experimental and DFT study. Journal of the Taiwan Institute of Chemical Engineers, 2018, 85, 121-131.	5.3	35
116	Effective mesoporous silica-ZIF-8 nano-adsorbents for adsorptive desulfurization of gas stream. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 10-22.	5.3	35
117	Preparation and characterization of a new waste-derived mesoporous carbon structure for ultrahigh adsorption of benzene and toluene at ambient conditions. Journal of Hazardous Materials, 2020, 384, 121317.	12.4	35
118	Effective adsorption of hydrogen sulfide by intercalation of TiO2 and N-doped TiO2 in graphene oxide. Journal of Environmental Chemical Engineering, 2020, 8, 103836.	6.7	35
119	Increasing the octane number of gasoline using functionalized carbon nanotubes. Applied Surface Science, 2010, 256, 3472-3477.	6.1	34
120	Graphene oxide nanosheets promoted regioselective and green synthesis of new dicoumarols. RSC Advances, 2014, 4, 17891-17895.	3.6	34
121	Synthesis of Reduced Graphene Oxide-Carbon Nanotubes (rGOâ€“CNT) Composite and Its Use As a Novel Catalyst Support for Hydro-Purification of Crude Terephthalic Acid. Industrial & Engineering Chemistry Research, 2015, 54, 7591-7603.	3.7	34
122	A Green Synthesis of Substituted Coumarins Using Nano Graphene Oxide as Recyclable Catalyst. Journal of the Chinese Chemical Society, 2015, 62, 389-392.	1.4	34
123	Experimental assessment of convective heat transfer coefficient enhancement of nanofluids prepared from high surface area nanoporous graphene. International Communications in Heat and Mass Transfer, 2016, 78, 127-134.	5.6	34
124	Porous nitrogen-doped graphene prepared through pyrolysis of ammonium acetate as an efficient ORR nanocatalyst. International Journal of Hydrogen Energy, 2018, 43, 15941-15951.	7.1	34
125	Adsorption mechanism of a cationic dye on a biomass-derived micro- and mesoporous carbon: structural, kinetic, and equilibrium insight. Biomass Conversion and Biorefinery, 2021, 11, 943-954.	4.6	34
126	Heat transfer properties of metal, metal oxides, and carbon water-based nanofluids in the ethanol condensation process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126720.	4.7	34

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127	Ethylbenzene Removal by Carbon Nanotubes from Aqueous Solution. Journal of Environmental and Public Health, 2012, 2012, 1-8.	0.9	33
128	The first catalytic application of oxidized carbon nanotubes in a four-component synthesis of fused heterocycles. Monatshefte FÃ¼r Chemie, 2016, 147, 791-795.	1.8	33
129	Adsorption kinetics and thermodynamics of hydrophobic natural organic matter (NOM) removal from aqueous solution by multi-wall carbon nanotubes. Water Science and Technology: Water Supply, 2013, 13, 273-285.	2.1	32
130	Vanadium oxide decorated carbon nanotubes as a promising support of Pt nanoparticles for methanol electro-oxidation reaction. Journal of Colloid and Interface Science, 2013, 393, 291-299.	9.4	31
131	Effects of surfactants, solvents and time on the morphology of MgO nanoparticles prepared by the wet chemical method. Materials Letters, 2013, 109, 269-274.	2.6	31
132	Oil-in-water Pickering emulsions stabilized with functionalized multi-walled carbon nanotube/silica nanohybrids in the presence of high concentrations of cations in water. Journal of Industrial and Engineering Chemistry, 2014, 20, 1720-1726.	5.8	31
133	Anthracite coal-derived activated carbon as an effectiveness adsorbent for superior gas adsorption and CO2 / N2 and CO2 / CH4 selectivity: Experimental and DFT study. Journal of Environmental Chemical Engineering, 2022, 10, 107007.	6.7	31
134	Support effects on the chemical property and catalytic activity of Co-Mo HDS catalyst in sulfur recovery. Journal of Natural Gas Chemistry, 2010, 19, 91-95.	1.8	30
135	Effect of asphaltene on the emulsions stabilized by graphene oxide: A potential application of graphene oxide in enhanced oil recovery. Journal of Petroleum Science and Engineering, 2019, 175, 868-880.	4.2	30
136	Molecular insight into the smart functionalized TMC-Fullerene nanocarrier in the pH-responsive adsorption and release of anti-cancer drugs. Journal of Molecular Graphics and Modelling, 2020, 100, 107660.	2.4	30
137	Preparation of fiber-like nanoporous carbon from jute thread waste for superior CO2 and H2S removal from natural gas: Experimental and DFT study. Chemical Engineering Journal, 2021, 415, 129076.	12.7	30
138	Oxidation of H2S to Elemental Sulfur over Alumina Based Nanocatalysts: Synthesis and Physiochemical Evaluations. Scientia Iranica, 2016, 23, 1160-1174.	0.4	30
139	Fractal Geometry Approach to Describe Mesostructured Boehmite and Gammaâ€Alumina Nanorods. European Journal of Inorganic Chemistry, 2010, 2010, 1544-1551.	2.0	29
140	Mercaptan removal from natural gas using carbon nanotube supported cobalt phthalocyanine nanocatalyst. Journal of Natural Gas Science and Engineering, 2014, 18, 439-445.	4.4	29
141	Synthesis of carbon nanotube-supported metallo carboxyporphyrin as a novel nanocatalyst for the mercaptan removal. Journal of Natural Gas Science and Engineering, 2015, 25, 103-109.	4.4	29
142	Tuning the surface chemistry and porosity of waste-derived nanoporous materials toward exceptional performance in antibiotic adsorption: Experimental and DFT studies. Chemical Engineering Journal, 2019, 374, 274-291.	12.7	29
143	Experimental investigation of carboxylate-alumoxane nanoparticles for the enhanced oil recovery performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 563, 37-49.	4.7	29
144	Modification of Carbon Nanotubes for H₂S Sorption. Industrial & Engineering Chemistry Research, 2011, 50, 8050-8057.	3.7	28

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145	Separation of methaneâ€“nitrogen mixtures using synthesis vertically aligned carbon nanotube membranes. Applied Surface Science, 2012, 258, 4819-4825.	6.1	28
146	Preparation of nanosensors based on organic functionalized MWCNT for H2S detection. Applied Surface Science, 2012, 259, 159-165.	6.1	28
147	The role of tin-promoted Pd/MWNTs via the management of carbonaceous species in selective hydrogenation of high concentration acetylene. Applied Surface Science, 2012, 263, 513-522.	6.1	28
148	A new strategy for hydrogen sulfide removal by amido-functionalized reduced graphene oxide as a novel metal-free and highly efficient nanoadsorbent. Journal of Sulfur Chemistry, 2015, 36, 660-671.	2.0	28
149	Benzenesulfonic acid-grafted graphene as a new and green nanoadsorbent in hydrogen sulfide removal. Journal of Natural Gas Science and Engineering, 2016, 28, 87-94.	4.4	28
150	Hydrodesulfurization catalysts based on carbon nanostructures: A review. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 557-569.	2.1	28
151	A novel aspect of functionalized graphene quantum dots in cytotoxicity studies. Toxicology in Vitro, 2019, 61, 104649.	2.4	28
152	Synthesis of novel and engineered UiO-66/graphene oxide nanocomposite with enhanced H2S adsorption capacity. Journal of Environmental Chemical Engineering, 2020, 8, 104351.	6.7	28
153	Investigation of H2S separation from H2S/CH4 mixtures using functionalized and non-functionalized vertically aligned carbon nanotube membranes. Applied Surface Science, 2013, 270, 115-123.	6.1	27
154	Arsenic speciation based on amine-functionalized bimodal mesoporous silica nanoparticles by ultrasound assisted-dispersive solid-liquid multiple phase microextraction. Microchemical Journal, 2017, 130, 137-146.	4.5	27
155	Experimental evaluation of nanomaterials to improve drilling fluid properties of water-based muds HP/HT applications. Journal of Petroleum Science and Engineering, 2020, 190, 107006.	4.2	27
156	Defect engineering-induced porosity in graphene quantum dots embedded metal-organic frameworks for enhanced benzene and toluene adsorption. Journal of Hazardous Materials, 2021, 416, 125973.	12.4	27
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