

Tawfik A Saleh

List of Publications by Year in descending order

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335
papers

28,814
citations

7561

77
h-index

6643

156
g-index

339
all docs

339
docs citations

339
times ranked

19306
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical treatment technologies for waste-water recycling – an overview. RSC Advances, 2012, 2, 6380.	1.7	1,313
2	Adsorptive removal of dyes from aqueous solution onto carbon nanotubes: A review. Advances in Colloid and Interface Science, 2013, 193-194, 24-34.	7.0	1,023
3	Photo-catalyzed degradation of hazardous dye methyl orange by use of a composite catalyst consisting of multi-walled carbon nanotubes and titanium dioxide. Journal of Colloid and Interface Science, 2012, 371, 101-106.	5.0	901
4	Synthesis and characterization of alumina-coated carbon nanotubes and their application for lead removal. Journal of Hazardous Materials, 2011, 185, 17-23.	6.5	900
5	Sorption of pollutants by porous carbon, carbon nanotubes and fullerene- An overview. Environmental Science and Pollution Research, 2013, 20, 2828-2843.	2.7	849
6	Chromium removal by combining the magnetic properties of iron oxide with adsorption properties of carbon nanotubes. Water Research, 2011, 45, 2207-2212.	5.3	690
7	Photo-catalytic degradation of toxic dye amaranth on TiO ₂ /UV in aqueous suspensions. Materials Science and Engineering C, 2012, 32, 12-17.	3.8	664
8	Processing methods, characteristics and adsorption behavior of tire derived carbons: A review. Advances in Colloid and Interface Science, 2014, 211, 93-101.	7.0	624
9	Nanomaterials: Classification, properties, and environmental toxicities. Environmental Technology and Innovation, 2020, 20, 101067.	3.0	586
10	Simultaneous adsorptive desulfurization of diesel fuel over bimetallic nanoparticles loaded on activated carbon. Journal of Cleaner Production, 2018, 172, 2123-2132.	4.6	558
11	Column with CNT/magnesium oxide composite for lead(II) removal from water. Environmental Science and Pollution Research, 2012, 19, 1224-1228.	2.7	535
12	Functionalization of tungsten oxide into MWCNT and its application for sunlight-induced degradation of rhodamine B. Journal of Colloid and Interface Science, 2011, 362, 337-344.	5.0	528
13	Isotherm, kinetic, and thermodynamic studies on Hg(II) adsorption from aqueous solution by silica-multiwall carbon nanotubes. Environmental Science and Pollution Research, 2015, 22, 16721-16731.	2.7	515
14	Synthesis and characterization of alumina nano-particles polyamide membrane with enhanced flux rejection performance. Separation and Purification Technology, 2012, 89, 245-251.	3.9	494
15	Nanocomposite of carbon nanotubes/silica nanoparticles and their use for adsorption of Pb(II): from surface properties to sorption mechanism. Desalination and Water Treatment, 2016, 57, 10730-10744.	1.0	491
16	The influence of treatment temperature on the acidity of MWCNT oxidized by HNO ₃ or a mixture of HNO ₃ /H ₂ SO ₄ . Applied Surface Science, 2011, 257, 7746-7751.	3.1	464
17	Chromium removal from water by activated carbon developed from waste rubber tires. Environmental Science and Pollution Research, 2013, 20, 1261-1268.	2.7	370
18	Mercury sorption by silica/carbon nanotubes and silica/activated carbon: a comparison study. Journal of Water Supply: Research and Technology - AQUA, 2015, 64, 892-903.	0.6	368

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19	Protocols for synthesis of nanomaterials, polymers, and green materials as adsorbents for water treatment technologies. <i>Environmental Technology and Innovation</i> , 2021, 24, 101821.	3.0	356
20	Effective adsorption of antimony(III) from aqueous solutions by polyamide-graphene composite as a novel adsorbent. <i>Chemical Engineering Journal</i> , 2017, 307, 230-238.	6.6	332
21	Characterization, determination and elimination technologies for sulfur from petroleum: Toward cleaner fuel and a safe environment. <i>Trends in Environmental Analytical Chemistry</i> , 2020, 25, e00080.	5.3	266
22	Polyethylenimine modified activated carbon as novel magnetic adsorbent for the removal of uranium from aqueous solution. <i>Chemical Engineering Research and Design</i> , 2017, 117, 218-227.	2.7	262
23	Effects of bimetallic Ce/Fe nanoparticles on the desulfurization of thiophenes using activated carbon. <i>Chemical Engineering Journal</i> , 2017, 307, 914-927.	6.6	245
24	Response surface methodology optimization of adsorptive desulfurization on nickel/activated carbon. <i>Chemical Engineering Journal</i> , 2017, 313, 993-1003.	6.6	230
25	Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. <i>Small</i> , 2020, 16, e1905767.	5.2	217
26	Carbon nanotube-incorporated alumina as a support for MoNi catalysts for the efficient hydrodesulfurization of thiophenes. <i>Chemical Engineering Journal</i> , 2021, 404, 126987.	6.6	217
27	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production – A review. <i>Journal of Environmental Management</i> , 2019, 250, 109486.	3.8	211
28	Adsorptive desulfurization of thiophene, benzothiophene and dibenzothiophene over activated carbon manganese oxide nanocomposite: with column system evaluation. <i>Journal of Cleaner Production</i> , 2017, 154, 401-412.	4.6	207
29	Adsorptive removal of cadmium(II) ions from liquid phase using acid modified carbon-based adsorbents. <i>Journal of Molecular Liquids</i> , 2015, 204, 255-263.	2.3	202
30	Response surface optimization, kinetic and thermodynamic studies for effective removal of rhodamine B by magnetic AC/CeO ₂ nanocomposite. <i>Journal of Environmental Management</i> , 2018, 206, 170-177.	3.8	195
31	Synthesis of ZnO ₂ nanoparticles by laser ablation in liquid and their annealing transformation into ZnO nanoparticles. <i>Applied Surface Science</i> , 2009, 256, 298-304.	3.1	184
32	Graphene Dendrimer-stabilized silver nanoparticles for detection of methimazole using Surface-enhanced Raman scattering with computational assignment. <i>Scientific Reports</i> , 2016, 6, 32185.	1.6	181
33	Enhanced removal of methyl orange from aqueous solutions by poly HEMA-chitosan-MWCNT nano-composite. <i>Journal of Molecular Liquids</i> , 2015, 202, 189-198.	2.3	180
34	Polyamide magnetic palygorskite for the simultaneous removal of Hg(II) and methyl mercury; with factorial design analysis. <i>Journal of Environmental Management</i> , 2018, 211, 323-333.	3.8	179
35	Trends in the sample preparation and analysis of nanomaterials as environmental contaminants. <i>Trends in Environmental Analytical Chemistry</i> , 2020, 28, e00101.	5.3	175
36	Adsorptive desulfurization of dibenzothiophene from fuels by rubber tyres-derived carbons: Kinetics and isotherms evaluation. <i>Chemical Engineering Research and Design</i> , 2016, 102, 9-19.	2.7	173

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37	Arsenic and selenium removal from water using biosynthesized nanoscale zero-valent iron: A factorial design analysis. <i>Chemical Engineering Research and Design</i> , 2017, 107, 518-527.	2.7	170
38	Graphene-based adsorbents for the removal of toxic organic pollutants: A review. <i>Journal of Environmental Management</i> , 2019, 244, 370-382.	3.8	164
39	Optimization of parameters with experimental design for the adsorption of mercury using polyethylenimine modified-activated carbon. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1079-1088.	3.3	155
40	Visible-light responsive BiOBr nanoparticles loaded on reduced graphene oxide for photocatalytic degradation of dye. <i>Journal of Molecular Liquids</i> , 2018, 253, 297-304.	2.3	153
41	Nanocomposite of ZnO with montmorillonite for removal of lead and copper ions from aqueous solutions. <i>Chemical Engineering Research and Design</i> , 2017, 109, 97-105.	2.7	151
42	Synthesis of polyamide grafted carbon microspheres for removal of rhodamine B dye and heavy metals. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5361-5368.	3.3	151
43	Nanosilver: new ageless and versatile biomedical therapeutic scaffold. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 733-762.	3.3	147
44	Gold and Silver Nanoparticles: Synthesis Methods, Characterization Routes and Applications towards Drugs. , 2016, 6, .		146
45	Chitosan-modified vermiculite for As(III) adsorption from aqueous solution: Equilibrium, thermodynamic and kinetic studies. <i>Journal of Molecular Liquids</i> , 2016, 219, 937-945.	2.3	144
46	Magnetic activated carbon loaded with tungsten oxide nanoparticles for aluminum removal from waters. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2853-2860.	3.3	136
47	Synthesis of nickel oxide nanoparticles using pulsed laser ablation in liquids and their optical characterization. <i>Applied Surface Science</i> , 2012, 258, 6982-6986.	3.1	130
48	Influence of acidic and basic treatments of activated carbon derived from waste rubber tires on adsorptive desulfurization of thiophenes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 460-468.	2.7	129
49	Enhancement in photocatalytic activity for acetaldehyde removal by embedding ZnO nano particles on multiwall carbon nanotubes. <i>Chemical Engineering Journal</i> , 2011, 166, 407-412.	6.6	125
50	Kinetics, isotherms and thermodynamic evaluation of amine functionalized magnetic carbon for methyl red removal from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2017, 248, 577-585.	2.3	125
51	Influence of conversion parameters of waste tires to activated carbon on adsorption of dibenzothiophene from model fuels. <i>Journal of Cleaner Production</i> , 2016, 117, 50-55.	4.6	123
52	Electrochemical removal of methylene blue using alginate-modified graphene adsorbents. <i>Chemical Engineering Journal</i> , 2019, 378, 122140.	6.6	119
53	Copper oxide nanoparticles-loaded zeolite and its characteristics and antibacterial activities. <i>Journal of Materials Science and Technology</i> , 2017, 33, 889-896.	5.6	115
54	Statistical analysis of phenols adsorption on diethylenetriamine-modified activated carbon. <i>Journal of Cleaner Production</i> , 2018, 182, 960-968.	4.6	114

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55	Advances in functionalized Nanoparticles based drilling inhibitors for oil production. Energy Reports, 2019, 5, 1293-1304.	2.5	111
56	Highly efficient solar light-driven photocatalytic hydrogen production over Cu/FCNTs-titania quantum dots-based heterostructures. Journal of Environmental Management, 2020, 254, 109747.	3.8	111
57	Modeling and prediction of the specific heat capacity of Al ₂ O ₃ nanofluids using support vector regression model optimized with Bayesian algorithm. Solar Energy, 2019, 183, 74-82.	1.9	110
58	Predicting the specific heat capacity of alumina/ethylene glycol nanofluids using support vector regression model optimized with Bayesian algorithm. Solar Energy, 2019, 183, 74-82.	2.9	109
59	Environmental risks and toxicity of surfactants: overview of analysis, assessment, and remediation techniques. Environmental Science and Pollution Research, 2021, 28, 62085-62104.	2.7	109
60	Carbonaceous adsorbent prepared from waste tires: Experimental and computational evaluations of organic dye methyl orange. Journal of Molecular Liquids, 2014, 191, 85-91.	2.3	108
61	Alumina-carbon nanofiber composite as a support for MoCo catalysts in hydrodesulfurization reactions. Chemical Engineering Journal, 2018, 345, 242-251.	6.6	108
62	Adsorption of lead ions from aqueous solution using porous carbon derived from rubber tires: Experimental and computational study. Journal of Colloid and Interface Science, 2013, 396, 264-269.	5.0	107
63	Advanced developments in shale inhibitors for oil production with low environmental footprints – A review. Fuel, 2019, 247, 237-249.	3.4	102
64	Bis(2-aminoethyl)amine-modified graphene oxide nanoemulsion for carbon steel protection in 15% HCl: Effect of temperature and synergism with iodide ions. Journal of Colloid and Interface Science, 2020, 564, 124-133.	5.0	102
65	Global trends in technologies and nanomaterials for removal of sulfur organic compounds: Clean energy and green environment. Journal of Molecular Liquids, 2022, 359, 119340.	2.3	101
66	Effect of zinc oxide amounts on the properties and antibacterial activities of zeolite/zinc oxide nanocomposite. Materials Science and Engineering C, 2016, 68, 505-511.	3.8	100
67	Silver loaded graphene as a substrate for sensing 2-thiouracil using surface-enhanced Raman scattering. Sensors and Actuators B: Chemical, 2018, 254, 1110-1117.	4.0	100
68	Electrodes modified with 3D graphene composites: a review on methods for preparation, properties and sensing applications. Mikrochimica Acta, 2018, 185, 283.	2.5	99
69	Diethylenetriamine functionalized graphene oxide as a novel corrosion inhibitor for mild steel in hydrochloric acid solutions. New Journal of Chemistry, 2019, 43, 2328-2337.	1.4	99
70	Preparation and Characterization of Zeolite/Zinc Oxide-Copper Oxide Nanocomposite: Antibacterial Activities. Colloids and Interface Science Communications, 2017, 16, 19-24.	2.0	97
71	Equilibrium and Thermodynamic Studies on the Adsorption of the Dye Rhodamine-B onto Mustard Cake and Activated Carbon. Journal of Chemical & Engineering Data, 2010, 55, 5225-5229.	1.0	96
72	Methylene Blue removal using polyamide-vermiculite nanocomposites: Kinetics, equilibrium and thermodynamic study. Journal of Environmental Chemical Engineering, 2019, 7, 103107.	3.3	95

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73	Synthesis of MWCNT/MnO ₂ and their application for simultaneous oxidation of arsenite and sorption of arsenate. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 46-46.	10.8	92
74	Synthesis of zinc oxide/talc nanocomposite for enhanced lead adsorption from aqueous solutions. <i>RSC Advances</i> , 2016, 6, 108819-108827.	1.7	92
75	Water treatment technologies in removing heavy metal ions from wastewater: A review. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 17, 100617.	1.7	91
76	Sorption of phenol from waters on activated carbon impregnated with iron oxide, aluminum oxide and titanium oxide. <i>Journal of Molecular Liquids</i> , 2016, 213, 351-359.	2.3	89
77	Recent trends in the design of chemical sensors based on graphene-metal oxide nanocomposites for the analysis of toxic species and biomolecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115660.	5.8	88
78	Synthesis of silica nanoparticles grafted with copolymer of acrylic acrylamide for ultra-removal of methylene blue from aquatic solutions. <i>European Polymer Journal</i> , 2020, 130, 109698.	2.6	87
79	Synthesis of hydrophobic cross-linked polyzwitterionic acid for simultaneous sorption of Eriochrome black T and chromium ions from binary hazardous waters. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 324-333.	5.0	86
80	Preparation and characterization of SnO ₂ nanoparticles using high power pulsed laser. <i>Applied Surface Science</i> , 2010, 256, 7067-7070.	3.1	82
81	Influence of aluminium impregnation on activated carbon for enhanced desulfurization of DBT at ambient temperature: Role of surface acidity and textural properties. <i>Chemical Engineering Journal</i> , 2016, 303, 489-500.	6.6	81
82	Novel Z-scheme binary zinc tungsten oxide/nickel ferrite nanohybrids for photocatalytic reduction of chromium (Cr (VI)), photoelectrochemical water splitting and degradation of toxic organic pollutants. <i>Journal of Hazardous Materials</i> , 2022, 423, 127044.	6.5	81
83	Preparation of a MWCNT/ZnO nanocomposite and its photocatalytic activity for the removal of cyanide from water using a laser. <i>Nanotechnology</i> , 2010, 21, 495705.	1.3	80
84	Characterization of the Chemical Bonding between Al ₂ O ₃ and Nanotube in MWCNT/ Al ₂ O ₃ Nanocomposite. <i>Current Nanoscience</i> , 2012, 8, 739-743.	0.7	78
85	Enhanced adsorption of phenols from liquids by aluminum oxide/carbon nanotubes: Comprehensive study from synthesis to surface properties. <i>Journal of Molecular Liquids</i> , 2015, 206, 176-182.	2.3	78
86	Physicochemical characteristics and dyeing properties of lignin-cellulosic fibers derived from Nerium oleander. <i>Journal of Molecular Liquids</i> , 2018, 249, 1138-1144.	2.3	78
87	Phytoremediation of cadmium-, lead- and nickel-contaminated water by <i>Phragmites australis</i> in hydroponic systems. <i>Ecological Engineering</i> , 2018, 120, 126-133.	1.6	78
88	Efficient removal of radioactive uranium from solvent phase using AgOH-MWCNTs nanoparticles: Kinetic and thermodynamic study. <i>Chemical Engineering Journal</i> , 2015, 273, 296-306.	6.6	77
89	Silver colloid and film substrates in surface-enhanced Raman scattering for 2-thiouracil detection. <i>RSC Advances</i> , 2016, 6, 75282-75292.	1.7	77
90	Spectroscopic characterization approach to study surfactants effect on ZnO ₂ nanoparticles synthesis by laser ablation process. <i>Applied Surface Science</i> , 2010, 256, 4661-4666.	3.1	74

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91	Polycyclic aromatic hydrocarbons extraction and removal from wastewater by carbon nanotubes: A review of the current technologies, challenges and prospects. <i>Chemical Engineering Research and Design</i> , 2019, 122, 68-82.	2.7	74
92	A cellulose acetate based nanocomposite for photocatalytic degradation of methylene blue dye under solar light. <i>Ionics</i> , 2015, 21, 1787-1793.	1.2	71
93	Ferric oxide nanoparticles decorated carbon nanotubes and carbon nanofibers: From synthesis to enhanced removal of phenol. <i>Journal of Saudi Chemical Society</i> , 2015, 19, 511-520.	2.4	70
94	Advanced functional polymer nanocomposites and their use in water ultra-purification. <i>Trends in Environmental Analytical Chemistry</i> , 2019, 24, e00067.	5.3	70
95	Enhanced electrochemical degradation of 4-Nitrophenol molecules using novel Ti/TiO ₂ -NiO electrodes. <i>Journal of Molecular Liquids</i> , 2019, 289, 111108.	2.3	70
96	Experimental and analytical methods for testing inhibitors and fluids in water-based drilling environments. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 149, 116543.	5.8	70
97	Equilibrium and Thermodynamic Studies on the Removal and Recovery of Safranin-T Dye from Industrial Effluents. <i>Separation Science and Technology</i> , 2011, 46, 839-846.	1.3	69
98	Zeolite modified with copper oxide and iron oxide for lead and arsenic adsorption from aqueous solutions. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2016, 65, 465-479.	0.6	68
99	Ultra-deep adsorptive desulfurization of fuels on cobalt and molybdenum nanoparticles loaded on activated carbon derived from waste rubber. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 779-787.	5.0	68
100	Synthesis of exfoliated polystyrene/anionic clay MgAl-layered double hydroxide: structural and thermal properties. <i>RSC Advances</i> , 2015, 5, 71441-71448.	1.7	67
101	Synthesis, characterisation and catalytic activity of dithiocarbazate Schiff base complexes in oxidation of cyclohexane. <i>Journal of Molecular Liquids</i> , 2017, 240, 486-496.	2.3	67
102	Catalytic oxidation of cyclohexane using transition metal complexes of dithiocarbazate Schiff base. <i>Chemical Engineering Journal</i> , 2017, 327, 423-430.	6.6	67
103	Amines modified fibers obtained from natural <i>Populus tremula</i> and their rapid biosorption of Acid Blue 25. <i>Journal of Molecular Liquids</i> , 2018, 250, 423-432.	2.3	67
104	Silver nanoparticles for detection of methimazole by surface-enhanced Raman spectroscopy. <i>Materials Research Bulletin</i> , 2017, 91, 173-178.	2.7	65
105	Effect of carbon on the hydrodesulfurization activity of MoCo catalysts supported on zeolite/ active carbon hybrid supports. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 117661.	10.8	65
106	Effect of boron on the efficiency of MoCo catalysts supported on alumina for the hydrodesulfurization of liquid fuels. <i>Chemical Engineering Research and Design</i> , 2019, 121, 165-174.	2.7	63
107	Eco-friendly synthesis of <i>Cynomorium coccineum</i> extract for controlled production of copper nanoparticles for sorption of methylene blue dye. <i>Arabian Journal of Chemistry</i> , 2020, 13, 4263-4274.	2.3	63
108	Removal of toxic metals from wastewater in constructed wetlands as a green technology; catalyst role of substrates and chelators. <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 109924.	2.9	61

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109	Advanced trends of shale inhibitors for enhanced properties of water-based drilling fluid. <i>Upstream Oil and Gas Technology</i> , 2022, 8, 100069.	1.1	61
110	Hydroxylamine reduced silver colloid for naphthalene and phenanthrene detection using surface-enhanced Raman spectroscopy. <i>Chemical Engineering Journal</i> , 2016, 304, 141-148.	6.6	60
111	Estimating the refractive index of oxygenated and deoxygenated hemoglobin using genetic algorithm and support vector regression model. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 163, 135-142.	2.6	60
112	Synthesis of amine functionalization carbon nanotube-low symmetry porphyrin derivatives conjugates toward dye and metal ions removal. <i>Journal of Molecular Liquids</i> , 2021, 340, 117024.	2.3	60
113	Spectroscopic and computational evaluation of cadmium adsorption using activated carbon produced from rubber tires. <i>Journal of Molecular Liquids</i> , 2013, 188, 136-142.	2.3	59
114	Synthesis of molybdenum cobalt nanocatalysts supported on carbon for hydrodesulfurization of liquid fuels. <i>Journal of Molecular Liquids</i> , 2018, 272, 715-721.	2.3	59
115	Silver-loaded graphene as an effective SERS substrate for clotrimazole detection: DFT and spectroscopic studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 201, 354-361.	2.0	59
116	Simultaneous sorption of dyes and toxic metals from waters using synthesized titania-incorporated polyamide. <i>Journal of Molecular Liquids</i> , 2018, 269, 564-571.	2.3	59
117	Efficient chemical etching procedure for the generation of superhydrophobic surfaces for separation of oil from water. <i>Progress in Organic Coatings</i> , 2019, 133, 27-32.	1.9	59
118	Interfacial polymerization of trimesoyl chloride with melamine and palygorskite for efficient uranium ions ultra-removal. <i>Chemical Engineering Research and Design</i> , 2020, 159, 353-361.	2.7	59
119	Surface characterization and sorption efficacy of tire-derived carbon: experimental and semiempirical study of rhodamine B adsorption. <i>Surface and Interface Analysis</i> , 2015, 47, 785-792.	0.8	58
120	Poly (amidoxime) modified magnetic activated carbon for chromium and thallium adsorption: Statistical analysis and regeneration. <i>Chemical Engineering Research and Design</i> , 2019, 121, 254-262.	2.7	58
121	Characterization of valeric acid using substrate of silver nanoparticles with SERS. <i>Journal of Molecular Liquids</i> , 2019, 273, 536-542.	2.3	57
122	Superhydrophobic and superoleophilic carbon nanofiber grafted polyurethane for oil-water separation. <i>Chemical Engineering Research and Design</i> , 2019, 123, 327-334.	2.7	56
123	Synthesis of 9-octadecenoic acid grafted graphene modified with polystyrene for efficient light oil removal from water. <i>Journal of Cleaner Production</i> , 2019, 233, 946-953.	4.6	56
124	Enhanced oxidative desulfurization in a film-shear reactor. <i>Fuel</i> , 2015, 156, 142-147.	3.4	55
125	Ca-alginate/carboxymethyl chitosan/Ni _{0.2} Zn _{0.2} Fe _{2.6} O ₄ magnetic bionanocomposite: Synthesis, characterization and application for single adsorption of Nd ³⁺ , Tb ³⁺ , and Dy ³⁺ rare earth elements from aqueous media. <i>Journal of Molecular Liquids</i> , 2020, 306, 112760.	2.3	55
126	Synthesis of bimetallic gold-palladium loaded on carbon as efficient catalysts for the oxidation of benzyl alcohol into benzaldehyde. <i>Journal of Molecular Liquids</i> , 2018, 271, 885-891.	2.3	54

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127	Poly(trimesoyl chloride-melamine) grafted on palygorskite for simultaneous ultra-trace removal of methylene blue and toxic metals. <i>Journal of Environmental Management</i> , 2018, 226, 358-364.	3.8	53
128	Eu^{3+} , Sm^{3+} Deep-Red Phosphors as Novel Materials for White Light-Emitting Diodes and Simultaneous Performance Enhancement of Organic-Inorganic Perovskite Solar Cells. <i>Small</i> , 2020, 16, e2001551.	5.2	51
129	Evaluation of AC/ZnO composite for sorption of dichloromethane, trichloromethane and carbon tetrachloride: kinetics and isotherms. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 55, 159-169.	2.7	50
130	Spherical silver nanoparticles as substrates in surface-enhanced Raman spectroscopy for enhanced characterization of ketoconazole. <i>Materials Science and Engineering C</i> , 2017, 76, 356-364.	3.8	50
131	A novel catalyst of nickel-loaded graphene decorated on molybdenum-alumina for the HDS of liquid fuels. <i>Chemical Engineering Journal</i> , 2021, 406, 125167.	6.6	50
132	Nanoparticles as components of electrochemical sensing platforms for the detection of petroleum pollutants: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 194-206.	5.8	49
133	Partially aminated acrylic acid grafted activated carbon as inexpensive shale hydration inhibitor. <i>Carbohydrate Research</i> , 2020, 491, 107960.	1.1	49
134	Solar-Driven Fixation of Bismuth Oxyhalides on Reduced Graphene Oxide for Efficient Sunlight-Responsive Immobilized Photocatalytic Systems. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001463.	1.9	49
135	Method and Mechanisms of Soil Stabilization Using Electric Arc Furnace Dust. <i>Scientific Reports</i> , 2017, 7, 46676.	1.6	48
136	Synthesis, characterization and evaluation of carbon nanofiber modified-polymer for ultra-removal of thorium ions from aquatic media. <i>Chemical Engineering Research and Design</i> , 2020, 163, 76-84.	2.7	48
137	Enhanced efficiency of polyamide membranes by incorporating TiO ₂ -Graphene oxide for water purification. <i>Journal of Molecular Liquids</i> , 2021, 323, 114922.	2.3	48
138	Studies on the adsorption of amoxicillin on multi-wall carbon nanotubes. <i>Water Science and Technology</i> , 2017, 75, 1599-1606.	1.2	47
139	Transparent predictive modelling of catalytic hydrodesulfurization using an interval type-2 fuzzy logic. <i>Journal of Cleaner Production</i> , 2019, 231, 1079-1088.	4.6	47
140	Novel cross-linked melamine based polyamine/CNT composites for lead ions removal. <i>Journal of Environmental Management</i> , 2017, 192, 163-170.	3.8	46
141	Analytical methods for mercury speciation, detection, and measurement in water, oil, and gas. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116016.	5.8	46
142	N,N-Bis-(2-aminoethyl)piperazine functionalized graphene oxide (NAEP-GO) as an effective green corrosion inhibitor for simulated acidizing environment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104967.	3.3	46
143	Simultaneous trapping of Cr(III) and organic dyes by a pH-responsive resin containing zwitterionic aminomethylphosphonate ligands and hydrophobic pendants. <i>Chemical Engineering Journal</i> , 2017, 330, 663-674.	6.6	44
144	Sensitive SERS detection and characterization of procaine in aqueous media by reduced gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127057.	4.0	44

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145	Evaluation of carbonized waste tire for development of novel shape stabilized composite phase change material for thermal energy storage. <i>Waste Management</i> , 2020, 103, 352-360.	3.7	44
146	Trends in polymers functionalized nanostructures for analysis of environmental pollutants. <i>Trends in Environmental Analytical Chemistry</i> , 2020, 26, e00084.	5.3	44
147	Synthesis of a unique cross-linked polyzwitterion/anion with an aspartic acid residue and its use for Pb ²⁺ removal from aqueous solution. <i>RSC Advances</i> , 2015, 5, 42222-42232.	1.7	43
148	Novel graphene modified carbon-paste electrode for promazine detection by square wave voltammetry. <i>Journal of Molecular Liquids</i> , 2018, 252, 75-82.	2.3	43
149	A sensitive electrochemical sensor based on functionalized graphene oxide/SnO ₂ for the determination of eugenol. <i>Microchemical Journal</i> , 2020, 159, 105353.	2.3	43
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