

Muataz A Atieh

List of Publications by Year in descending order

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93
papers

8,721
citations

66315

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48277

88
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94
all docs

94
docs citations

94
times ranked

11585
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. Separation and Purification Technology, 2016, 157, 141-161.	3.9	977
2	XPS and structural studies of high quality graphene oxide and reduced graphene oxide prepared by different chemical oxidation methods. Ceramics International, 2019, 45, 14439-14448.	2.3	690
3	Selective Ionic Transport through Tunable Subnanometer Pores in Single-Layer Graphene Membranes. Nano Letters, 2014, 14, 1234-1241.	4.5	687
4	Nanostructured materials for water desalination. Nanotechnology, 2011, 22, 292001.	1.3	543
5	Carbon capture by physical adsorption: Materials, experimental investigations and numerical modeling and simulations – A review. Applied Energy, 2016, 161, 225-255.	5.1	498
6	Selective Molecular Transport through Intrinsic Defects in a Single Layer of CVD Graphene. ACS Nano, 2012, 6, 10130-10138.	7.3	331
7	A Review of Carbon Nanomaterials™ Synthesis via the Chemical Vapor Deposition (CVD) Method. Materials, 2018, 11, 822.	1.3	315
8	A comprehensive review on synthesis, stability, thermophysical properties, and characterization of nanofluids. Powder Technology, 2019, 344, 404-431.	2.1	240
9	Polypyrrole/carbon nanotube supercapacitors: Technological advances and challenges. Journal of Power Sources, 2017, 352, 174-186.	4.0	219
10	Barium removal from synthetic natural and produced water using MXene as two dimensional (2-D) nanosheet adsorbent. Chemical Engineering Journal, 2017, 317, 331-342.	6.6	214
11	Adsorptive removal of cadmium(II) ions from liquid phase using acid modified carbon-based adsorbents. Journal of Molecular Liquids, 2015, 204, 255-263.	2.3	202
12	Inorganic Membranes: Preparation and Application for Water Treatment and Desalination. Materials, 2018, 11, 74.	1.3	199
13	Kinetic adsorption of application of carbon nanotubes for Pb(II) removal from aqueous solution. Journal of Environmental Sciences, 2009, 21, 539-544.	3.2	194
14	Effect of acid modification on adsorption of hexavalent chromium (Cr(VI)) from aqueous solution by activated carbon and carbon nanotubes. Desalination and Water Treatment, 2016, 57, 7232-7244.	1.0	150
15	Effect of multi-wall carbon nanotubes on the mechanical properties of natural rubber. Composite Structures, 2006, 75, 496-500.	3.1	136
16	Desalination and environment: A critical analysis of impacts, mitigation strategies, and greener desalination technologies. Science of the Total Environment, 2021, 780, 146585.	3.9	132
17	Preparation and properties of nanocomposite polysulfone/multi-walled carbon nanotubes membranes for desalination. Desalination, 2015, 367, 134-144.	4.0	122
18	Can carbon-based nanomaterials revolutionize membrane fabrication for water treatment and desalination?. Desalination, 2016, 391, 69-88.	4.0	115

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19	Removal of Chromium (VI) from polluted water using carbon nanotubes supported with activated carbon. <i>Procedia Environmental Sciences</i> , 2011, 4, 281-293.	1.3	105
20	A Review on the Corrosion Behaviour of Nanocoatings on Metallic Substrates. <i>Materials</i> , 2019, 12, 210.	1.3	104
21	Critical Review on Nanofluids: Preparation, Characterization, and Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-22.	1.5	99
22	Adsorption of phosphate on iron oxide doped halloysite nanotubes. <i>Scientific Reports</i> , 2019, 9, 3232.	1.6	99
23	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. <i>Desalination</i> , 2017, 401, 1-15.	4.0	91
24	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
25	High performance hydroxyiron modified montmorillonite nanoclay adsorbent for arsenite removal. <i>Chemical Engineering Journal</i> , 2018, 335, 1-12.	6.6	87
26	Electrochemical reduction of CO ₂ to methanol over MWCNTs impregnated with Cu ₂ O. <i>Chemical Engineering Science</i> , 2016, 152, 468-477.	1.9	86
27	An experimental study on stability and thermal conductivity of water/CNTs nanofluids using different surfactants: A comparison study. <i>Journal of Molecular Liquids</i> , 2020, 304, 111025.	2.3	86
28	Removal of mercury from water by multi-walled carbon nanotubes. <i>Water Science and Technology</i> , 2010, 61, 591-598.	1.2	79
29	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
30	Fabrication and antifouling behaviour of a carbon nanotube membrane. <i>Materials and Design</i> , 2016, 89, 549-558.	3.3	77
31	Experiment on forced convective heat transfer enhancement using MWCNTs/GNPs hybrid nanofluid and mini-tube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1121-1131.	2.5	75
32	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
33	Effects of annealing on copper substrate surface morphology and graphene growth by chemical vapor deposition. <i>Carbon</i> , 2015, 94, 369-377.	5.4	67
34	Novel anti-microbial membrane for desalination pretreatment: A silver nanoparticle-doped carbon nanotube membrane. <i>Desalination</i> , 2015, 376, 82-93.	4.0	67
35	Removal of arsenic from water by iron oxide nanoparticles impregnated on carbon nanotubes. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 215-223.	0.9	60
36	Electrical properties of natural rubber nanocomposites: effect of 1-octadecanol functionalization of carbon nanotubes. <i>Journal of Materials Science</i> , 2012, 47, 3344-3349.	1.7	60

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37	Surface modification of carbon nanotubes with copper oxide nanoparticles for heat transfer enhancement of nanofluids. RSC Advances, 2018, 8, 1791-1802.	1.7	57
38	Micro-Nano Scale Surface Coating for Nucleate Boiling Heat Transfer: A Critical Review. Energies, 2018, 11, 3189.	1.6	53
39	Natural rubber nanocomposites with functionalized carbon nanotubes: Mechanical, dynamic mechanical, and morphology studies. Journal of Applied Polymer Science, 2012, 125, E76.	1.3	47
40	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. Desalination, 2016, 379, 172-181.	4.0	46
41	Arabic gum as a novel pore-forming and hydrophilic agent in polysulfone membranes. Journal of Membrane Science, 2017, 529, 95-104.	4.1	45
42	Heat transfer enhancement of nanofluids using iron nanoparticles decorated carbon nanotubes. Applied Thermal Engineering, 2016, 107, 1008-1018.	3.0	43
43	Monolayer graphene transfer onto polypropylene and polyvinylidene difluoride microfiltration membranes for water desalination. Desalination, 2016, 388, 29-37.	4.0	42
44	Effect of PEG functionalized carbon nanotubes on the enhancement of thermal and physical properties of nanofluids. Experimental Thermal and Fluid Science, 2017, 84, 231-241.	1.5	42
45	Removal of Cadmium from Water by CNT/PAC Composite: Effect of Functionalization. Nano, 2016, 11, 1650011.	0.5	41
46	Novel hybrid ceramic/carbon membrane for oil removal. Journal of Membrane Science, 2018, 559, 42-53.	4.1	41
47	Phosphate removal from synthetic and treated sewage effluent by carbide derived carbon. Journal of Water Process Engineering, 2020, 36, 101323.	2.6	41
48	Experimental investigation of double-pipe heat exchangers in air conditioning applications. Energy and Buildings, 2018, 158, 801-811.	3.1	39
49	Enhanced Adsorption of Selenium Ions from Aqueous Solution Using Iron Oxide Impregnated Carbon Nanotubes. Bioinorganic Chemistry and Applications, 2017, 2017, 1-12.	1.8	38
50	Effect of -COOH Functionalized Carbon Nanotubes on Mechanical, Dynamic Mechanical and Thermal Properties of Polypropylene Nanocomposites. Journal of Thermoplastic Composite Materials, 2012, 25, 333-350.	2.6	36
51	Adsorption of phenol on aluminum oxide impregnated fly ash. Desalination and Water Treatment, 2016, 57, 6801-6808.	1.0	35
52	Influence of carbon nanotube (CNT) on the mechanical properties of LLDPE/CNT nanocomposite fibers. Materials Letters, 2011, 65, 3633-3635.	1.3	33
53	PVDF-co-HFP/superhydrophobic acetylene-based nanocarbon hybrid membrane for seawater desalination via DCM. Chemical Engineering Research and Design, 2018, 138, 248-259.	2.7	32
54	Synthesis and characterization of alumina-CNT membrane for cadmium removal from aqueous solution. Ceramics International, 2018, 44, 17189-17198.	2.3	32

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55	The nature and kinetics of the adsorption of dibenzothiophene in model diesel fuel on carbonaceous materials loaded with aluminum oxide particles. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3678-3691.	2.3	31
56	Metals in the Environment: Toxic Metals Removal. <i>Bioinorganic Chemistry and Applications</i> , 2017, 2017, 1-2.	1.8	29
57	Effect of phenol functionalization of carbon nanotubes on properties of natural rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2370-2376.	1.3	28
58	Photovoltaic improvement and charge recombination reduction by aluminum oxide impregnated MWCNTs/TiO ₂ based photoanode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 203, 162-170.	2.6	28
59	Novel Aluminum Oxide-Impregnated Carbon Nanotube Membrane for the Removal of Cadmium from Aqueous Solution. <i>Materials</i> , 2017, 10, 1144.	1.3	27
60	Critical review of solar thermal resources in GCC and application of nanofluids for development of efficient and cost effective CSP technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 708-719.	8.2	26
61	Effect of Functionalize Carbon Nanotubes with Amine Functional Group on the Mechanical and Thermal Properties of Styrene Butadiene Rubber. <i>Journal of Thermoplastic Composite Materials</i> , 2011, 24, 613-624.	2.6	25
62	Evaluation of micro- and nano-carbon-based adsorbents for the removal of phenol from aqueous solutions. <i>Toxicological and Environmental Chemistry</i> , 2015, 97, 1164-1179.	0.6	25
63	Engineering the Surface and Mechanical Properties of Water Desalination Membranes Using Ultralong Carbon Nanotubes. <i>Membranes</i> , 2018, 8, 106.	1.4	24
64	Enhanced Fouling Resistance and Antibacterial Properties of Novel Graphene Oxide-Arabic Gum Polyethersulfone Membranes. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 513.	1.3	23
65	Antibacterial Properties of Polysulfone Membranes Blended with Arabic Gum. <i>Membranes</i> , 2019, 9, 29.	1.4	23
66	Rheological behavior of polypropylene nanocomposites at low concentration of surface modified carbon nanotubes. <i>Polymer Engineering and Science</i> , 2012, 52, 1868-1873.	1.5	20
67	Effect of Functionalized Carbon Nanotubes with Carboxylic Functional Group on the Mechanical and Thermal Properties of Styrene Butadiene Rubber. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2011, 19, 617-627.	1.0	19
68	Effects of preparation temperature on production of graphene oxide by novel chemical processing. <i>Ceramics International</i> , 2021, 47, 10113-10122.	2.3	19
69	Adsorption isotherms and kinetics for dibenzothiophene on activated carbon and carbon nanotube doped with nickel oxide nanoparticles. <i>Bulletin of Materials Science</i> , 2016, 39, 437-450.	0.8	18
70	Radiation Vulcanization of Natural Rubber Latex Loaded with Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 56-71.	1.0	17
71	Bromate Removal from Water Using Doped Iron Nanoparticles on Multiwalled Carbon Nanotubes (CNTS). <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	1.5	17
72	Corrosion Evaluation of 316L Stainless Steel in CNT-Water Nanofluid: Effect of CNTs Loading. <i>Materials</i> , 2019, 12, 1634.	1.3	15

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73	Synthesis of silver sulfide modified carbon materials for adsorptive removal of dibenzothiophene in n-hexane. Environmental Technology (United Kingdom), 2017, 38, 2949-2963.	1.2	14
74	Effect of Modified and Nonmodified Carbon Nanotubes on the Rheological Behavior of High Density Polyethylene Nanocomposite. Journal of Nanomaterials, 2013, 2013, 1-12.	1.5	11
75	Carbon nanostructures grown on 3D silicon carbide foams: Role of intermediate silica layer and metal growth. Chemical Engineering Journal, 2014, 258, 110-118.	6.6	11
76	Preparation and Characterization of Polyamidoxime Chelating Resin from Rubberwood Fibre-G-Polyacrylonitrile. Adsorption Science and Technology, 2009, 27, 661-670.	1.5	9
77	Mechanical, Rheological and Thermal Properties of Polystyrene/1-Octadecanol Modified Carbon Nanotubes Nanocomposites. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 209-217.	1.0	9
78	Synthesis of Graphene Based Membranes: Effect of Substrate Surface Properties on Monolayer Graphene Transfer. Materials, 2017, 10, 86.	1.3	8
79	Corrosion Behaviour of 316L Stainless Steel in CNTsâ€“Water Nanofluid: Effect of Temperature. Materials, 2021, 14, 119.	1.3	8
80	Stability and rupture of nano-liquid film (NLF) flowing down an inclined plane. Computers and Chemical Engineering, 2005, 29, 2144-2154.	2.0	7
81	A novel adsorptive ceramic membrane for efficient strontium removal. Journal of Water Process Engineering, 2020, 37, 101538.	2.6	6
82	Effect of phenol functionalized carbon nanotube on mechanical, dynamic mechanical, and thermal properties of isotactic polypropylene nanocomposites. Polymer Engineering and Science, 2012, 52, 525-531.	1.5	5
83	Rheology, Mechanical and Thermal Properties of C ₁₈ -CNT/LDPE Nanocomposites. International Polymer Processing, 2013, 28, 3-13.	0.3	5
84	Thermal Oxidation Kinetic of Carbon Nanotubes (CNTs). Arabian Journal for Science and Engineering, 2014, 39, 621-630.	1.1	5
85	Time-biased square wave differential electrolytic potentiometry for determination of ascorbic acid in a complex matrix at multi-walled carbon nanotubes modified silver electrodes. Arabian Journal of Chemistry, 2020, 13, 2955-2963.	2.3	5
86	Enhancing the adsorptive capacity of carbon nanofibers by impregnation with ferric oxide for the removal of cadmium from aqueous solution. Journal of Water Process Engineering, 2021, 42, 102130.	2.6	5
87	Monolayer Graphene Transfer onto Hydrophilic Substrates: A New Protocol Using Electrostatic Charging. Membranes, 2020, 10, 358.	1.4	3
88	Surface modification of polyamide membranes using the layer-by-layer technique: characterization and antifouling potential. , 0, 69, 84-92.		3
89	Fabrication and evaluation of activated carbon/Fe ₂ O ₃ nano-composite on the removal of strontium ions from water. , 0, 73, 399-408.		3
90	Carbon-Based Electric Double Layer Capacitors for Water Desalination. , 2010, , .		2

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91	Investigating the removal of methyl tertiary butyl ether (MTBE) from water using raw and modified fly ash waste materials. <i>Desalination and Water Treatment</i> , 2016, 57, 26307-26312.	1.0	2
92	Corrigendum to "Critical Review on Nanofluids: Preparation, Characterization, and Applications" <i>Journal of Nanomaterials</i> , 2017, 2017, 1-1.	1.5	0
93	Hybrid Separator-Adsorbent Inorganic Membrane for Oil-Water Separation. , 0, , .		0