

Muataz A Atieh

List of Publications by Year in descending order

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93
papers

8,721
citations

66234

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94
docs citations

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times ranked

11585
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of preparation temperature on production of graphene oxide by novel chemical processing. <i>Ceramics International</i> , 2021, 47, 10113-10122.	2.3	19
2	Enhancing the adsorptive capacity of carbon nanofibers by impregnation with ferric oxide for the removal of cadmium from aqueous solution. <i>Journal of Water Process Engineering</i> , 2021, 42, 102130.	2.6	5
3	Desalination and environment: A critical analysis of impacts, mitigation strategies, and greener desalination technologies. <i>Science of the Total Environment</i> , 2021, 780, 146585.	3.9	132
4	Corrosion Behaviour of 316L Stainless Steel in CNTs-Water Nanofluid: Effect of Temperature. <i>Materials</i> , 2021, 14, 119.	1.3	8
5	Time-biased square wave differential electrolytic potentiometry for determination of ascorbic acid in a complex matrix at multi-walled carbon nanotubes modified silver electrodes. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2955-2963.	2.3	5
6	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
7	Monolayer Graphene Transfer onto Hydrophilic Substrates: A New Protocol Using Electrostatic Charging. <i>Membranes</i> , 2020, 10, 358.	1.4	3
8	A novel adsorptive ceramic membrane for efficient strontium removal. <i>Journal of Water Process Engineering</i> , 2020, 37, 101538.	2.6	6
9	Phosphate removal from synthetic and treated sewage effluent by carbide derive carbon. <i>Journal of Water Process Engineering</i> , 2020, 36, 101323.	2.6	41
10	Corrosion Evaluation of 316L Stainless Steel in CNT-Water Nanofluid: Effect of CNTs Loading. <i>Materials</i> , 2019, 12, 1634.	1.3	15
11	XPS and structural studies of high quality graphene oxide and reduced graphene oxide prepared by different chemical oxidation methods. <i>Ceramics International</i> , 2019, 45, 14439-14448.	2.3	690
12	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
13	Adsorption of phosphate on iron oxide doped halloysite nanotubes. <i>Scientific Reports</i> , 2019, 9, 3232.	1.6	99
14	Antibacterial Properties of Polysulfone Membranes Blended with Arabic Gum. <i>Membranes</i> , 2019, 9, 29.	1.4	23
15	A Review on the Corrosion Behaviour of Nanocoatings on Metallic Substrates. <i>Materials</i> , 2019, 12, 210.	1.3	104
16	A comprehensive review on synthesis, stability, thermophysical properties, and characterization of nanofluids. <i>Powder Technology</i> , 2019, 344, 404-431.	2.1	240
17	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
18	Surface modification of carbon nanotubes with copper oxide nanoparticles for heat transfer enhancement of nanofluids. <i>RSC Advances</i> , 2018, 8, 1791-1802.	1.7	57

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19	Novel hybrid ceramic/carbon membrane for oil removal. <i>Journal of Membrane Science</i> , 2018, 559, 42-53.	4.1	41
20	High performance hydroxyiron modified montmorillonite nanoclay adsorbent for arsenite removal. <i>Chemical Engineering Journal</i> , 2018, 335, 1-12.	6.6	87
21	Experimental investigation of double-pipe heat exchangers in air conditioning applications. <i>Energy and Buildings</i> , 2018, 158, 801-811.	3.1	39
22	Micro-Nano Scale Surface Coating for Nucleate Boiling Heat Transfer: A Critical Review. <i>Energies</i> , 2018, 11, 3189.	1.6	53
23	Engineering the Surface and Mechanical Properties of Water Desalination Membranes Using Ultralong Carbon Nanotubes. <i>Membranes</i> , 2018, 8, 106.	1.4	24
24	PVDF-co-HFP/superhydrophobic acetylene-based nanocarbon hybrid membrane for seawater desalination via DCMD. <i>Chemical Engineering Research and Design</i> , 2018, 138, 248-259.	2.7	32
25	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
26	Synthesis and characterization of alumina-CNT membrane for cadmium removal from aqueous solution. <i>Ceramics International</i> , 2018, 44, 17189-17198.	2.3	32
27	Inorganic Membranes: Preparation and Application for Water Treatment and Desalination. <i>Materials</i> , 2018, 11, 74.	1.3	199
28	A Review of Carbon Nanomaterials'™ Synthesis via the Chemical Vapor Deposition (CVD) Method. <i>Materials</i> , 2018, 11, 822.	1.3	315
29	Barium removal from synthetic natural and produced water using MXene as two dimensional (2-D) nanosheet adsorbent. <i>Chemical Engineering Journal</i> , 2017, 317, 331-342.	6.6	214
30	Effect of PEG functionalized carbon nanotubes on the enhancement of thermal and physical properties of nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2017, 84, 231-241.	1.5	42
31	Arabic gum as a novel pore-forming and hydrophilic agent in polysulfone membranes. <i>Journal of Membrane Science</i> , 2017, 529, 95-104.	4.1	45
32	Synthesis of silver sulfide modified carbon materials for adsorptive removal of dibenzothiophene in n-hexane. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2949-2963.	1.2	14
33	Polypyrrole/carbon nanotube supercapacitors: Technological advances and challenges. <i>Journal of Power Sources</i> , 2017, 352, 174-186.	4.0	219
34	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
35	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. <i>Desalination</i> , 2017, 401, 1-15.	4.0	91
36	Synthesis of Graphene Based Membranes: Effect of Substrate Surface Properties on Monolayer Graphene Transfer. <i>Materials</i> , 2017, 10, 86.	1.3	8

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37	Novel Aluminum Oxide-Impregnated Carbon Nanotube Membrane for the Removal of Cadmium from Aqueous Solution. <i>Materials</i> , 2017, 10, 1144.	1.3	27
38	Metals in the Environment: Toxic Metals Removal. <i>Bioinorganic Chemistry and Applications</i> , 2017, 2017, 1-2.	1.8	29
39	Enhanced Adsorption of Selenium Ions from Aqueous Solution Using Iron Oxide Impregnated Carbon Nanotubes. <i>Bioinorganic Chemistry and Applications</i> , 2017, 2017, 1-12.	1.8	38
40	Corrigendum to "Critical Review on Nanofluids: Preparation, Characterization, and Applications" <i>Journal of Nanomaterials</i> , 2017, 2017, 1-1.	1.5	0
41	Critical Review on Nanofluids: Preparation, Characterization, and Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-22.	1.5	99
42	Monolayer graphene transfer onto polypropylene and polyvinylidene difluoride microfiltration membranes for water desalination. <i>Desalination</i> , 2016, 388, 29-37.	4.0	42
43	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
44	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
45	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
46	Heat transfer enhancement of nanofluids using iron nanoparticles decorated carbon nanotubes. <i>Applied Thermal Engineering</i> , 2016, 107, 1008-1018.	3.0	43
47	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
48	Adsorption of phenol on aluminum oxide impregnated fly ash. <i>Desalination and Water Treatment</i> , 2016, 57, 6801-6808.	1.0	35
49	Removal of Cadmium from Water by CNT/PAC Composite: Effect of Functionalization. <i>Nano</i> , 2016, 11, 1650011.	0.5	41
50	Can carbon-based nanomaterials revolutionize membrane fabrication for water treatment and desalination?. <i>Desalination</i> , 2016, 391, 69-88.	4.0	115
51	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. <i>Desalination</i> , 2016, 379, 172-181.	4.0	46
52	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. <i>Separation and Purification Technology</i> , 2016, 157, 141-161.	3.9	977
53	Carbon capture by physical adsorption: Materials, experimental investigations and numerical modeling and simulations – A review. <i>Applied Energy</i> , 2016, 161, 225-255.	5.1	498
54	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

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55	Fabrication and antifouling behaviour of a carbon nanotube membrane. <i>Materials and Design</i> , 2016, 89, 549-558.	3.3	77
56	Effect of acid modification on adsorption of hexavalent chromium (Cr(VI)) from aqueous solution by activated carbon and carbon nanotubes. <i>Desalination and Water Treatment</i> , 2016, 57, 7232-7244.	1.0	150
57	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
58	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
59	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
60	Preparation and properties of nanocomposite polysulfone/multi-walled carbon nanotubes membranes for desalination. <i>Desalination</i> , 2015, 367, 134-144.	4.0	122
61	Novel anti-microbial membrane for desalination pretreatment: A silver nanoparticle-doped carbon nanotube membrane. <i>Desalination</i> , 2015, 376, 82-93.	4.0	67
62	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
63	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
64	Mechanical, Rheological and Thermal Properties of Polystyrene/1-Octadecanol Modified Carbon Nanotubes Nanocomposites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 209-217.	1.0	9
65	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
66	Selective Ionic Transport through Tunable Subnanometer Pores in Single-Layer Graphene Membranes. <i>Nano Letters</i> , 2014, 14, 1234-1241.	4.5	687
67	Carbon nanostructures grown on 3D silicon carbide foams: Role of intermediate silica layer and metal growth. <i>Chemical Engineering Journal</i> , 2014, 258, 110-118.	6.6	11
68	Thermal Oxidation Kinetic of Carbon Nanotubes (CNTs). <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 621-630.	1.1	5
69	Rheology, Mechanical and Thermal Properties of C ₁₈ -CNT/LDPE Nanocomposites. <i>International Polymer Processing</i> , 2013, 28, 3-13.	0.3	5
70	Effect of Modified and Nonmodified Carbon Nanotubes on the Rheological Behavior of High Density Polyethylene Nanocomposite. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-12.	1.5	11
71	Effect of -COOH Functionalized Carbon Nanotubes on Mechanical, Dynamic Mechanical and Thermal Properties of Polypropylene Nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2012, 25, 333-350.	2.6	36
72	Selective Molecular Transport through Intrinsic Defects in a Single Layer of CVD Graphene. <i>ACS Nano</i> , 2012, 6, 10130-10138.	7.3	331

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73	Effect of phenol functionalized carbon nanotube on mechanical, dynamic mechanical, and thermal properties of isotactic polypropylene nanocomposites. <i>Polymer Engineering and Science</i> , 2012, 52, 525-531.	1.5	5
74	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
75	Natural rubber nanocomposites with functionalized carbon nanotubes: Mechanical, dynamic mechanical, and morphology studies. <i>Journal of Applied Polymer Science</i> , 2012, 125, E76.	1.3	47
76	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
77	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
78	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
79	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
80	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
81	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
82	Influence of carbon nanotube (CNT) on the mechanical properties of LLDPE/CNT nanocomposite fibers. <i>Materials Letters</i> , 2011, 65, 3633-3635.	1.3	33
83	Nanostructured materials for water desalination. <i>Nanotechnology</i> , 2011, 22, 292001.	1.3	543
84	Radiation Vulcanization of Natural Rubber Latex Loaded with Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 56-71.	1.0	17
85	Removal of mercury from water by multi-walled carbon nanotubes. <i>Water Science and Technology</i> , 2010, 61, 591-598.	1.2	79
86	Carbon-Based Electric Double Layer Capacitors for Water Desalination. , 2010, , .		2
87	Kinetic adsorption of application of carbon nanotubes for Pb(II) removal from aqueous solution. <i>Journal of Environmental Sciences</i> , 2009, 21, 539-544.	3.2	194
88	Preparation and Characterization of Polyamidoxime Chelating Resin from Rubberwood Fibre-G-Polyacrylonitrile. <i>Adsorption Science and Technology</i> , 2009, 27, 661-670.	1.5	9
89	Effect of multi-wall carbon nanotubes on the mechanical properties of natural rubber. <i>Composite Structures</i> , 2006, 75, 496-500.	3.1	136
90	Stability and rupture of nano-liquid film (NLF) flowing down an inclined plane. <i>Computers and Chemical Engineering</i> , 2005, 29, 2144-2154.	2.0	7

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91	Surface modification of polyamide membranes using the layer-by-layer technique: characterization and antifouling potential. , 0, 69, 84-92.		3
92	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
93	Hybrid Separator-Adsorbent Inorganic Membrane for Oil-Water Separation. , 0, , .		0