

# Ahmed A Abdala

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

12,174  
citations

31  
h-index

103  
g-index

103  
ext. papers

13,356  
ext. citations

5.1  
avg. IF

6.52  
L-index

#	Paper	IF	Citations
99	Single Sheet Functionalized Graphene by Oxidation and Thermal Expansion of Graphite. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4396-4404	9.6	2986
98	Functionalized graphene sheets for polymer nanocomposites. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 327-31	28.7	2899
97	Graphene/Polymer Nanocomposites. <i>Macromolecules</i> , <b>2010</b> , 43, 6515-6530	5.5	2683
96	Recent advances in graphene based gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 218, 160-183	8.5	558
95	Graphene/polyethylene nanocomposites: Effect of polyethylene functionalization and blending methods. <i>Polymer</i> , <b>2011</b> , 52, 1837-1846	3.9	310
94	Intercalation and stitching of graphite oxide with diaminoalkanes. <i>Langmuir</i> , <b>2007</b> , 23, 10644-9	4	222
93	Melamine formaldehyde: curing studies and reaction mechanism. <i>Polymer Journal</i> , <b>2013</b> , 45, 413-419	2.7	217
92	Recent advances in chemical modifications of graphene. <i>Nano Research</i> , <b>2015</b> , 8, 1039-1074	10	154
91	Polymer membranes for acid gas removal from natural gas. <i>Separation and Purification Technology</i> , <b>2016</b> , 158, 333-356	8.3	145
90	Enhancing oil removal from water using ferric oxide nanoparticles doped carbon nanotubes adsorbents. <i>Chemical Engineering Journal</i> , <b>2016</b> , 293, 90-101	14.7	125
89	Does Graphene Change Tg of Nanocomposites?. <i>Macromolecules</i> , <b>2014</b> , 47, 8311-8319	5.5	105
88	Mechanical properties of water desalination and wastewater treatment membranes. <i>Desalination</i> , <b>2017</b> , 401, 190-205	10.3	96
87	Novel Associative Polymer Networks Based on Cyclodextrin Inclusion Compounds. <i>Macromolecules</i> , <b>2005</b> , 38, 3037-3040	5.5	83
86	Solvent-free synthesis of ZnO-graphene nanocomposite with superior photocatalytic activity. <i>Applied Surface Science</i> , <b>2019</b> , 465, 1107-1113	6.7	64
85	Mobility of Ethomeen C12 and Carbon Dioxide (CO <sub>2</sub> ) Foam at High Temperature/High Salinity and in Carbonate Cores. <i>SPE Journal</i> , <b>2016</b> , 21, 1151-1163	3.1	63
84	Effect of thermally reduced graphene sheets on the phase behavior, morphology, and electrical conductivity in poly[(E)methyl styrene)-co-(acrylonitrile)/poly(methyl-methacrylate) blends. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 3172-80	9.5	63
83	Processable conductive graphene/polyethylene nanocomposites: Effects of graphene dispersion and polyethylene blending with oxidized polyethylene on rheology and microstructure. <i>Polymer</i> , <b>2016</b> , 98, 143-155	3.9	57

82	Aqueous reduced graphene/thermoplastic polyurethane nanocomposites. <i>Polymer</i> , <b>2013</b> , 54, 4555-4559	3.9	53
81	Poly(hydroxyalkanoate) Elastomers and Their Graphene Nanocomposites. <i>Macromolecules</i> , <b>2014</b> , 47, 3926-3941	5.5	50
80	Modulation of Hydrophobic Interactions in Associative Polymers Using Inclusion Compounds and Surfactants. <i>Macromolecules</i> , <b>2003</b> , 36, 7833-7841	5.5	50
79	Rheology control by modulating hydrophobic and inclusion associations in modified poly(acrylic acid) solutions. <i>Polymer</i> , <b>2006</b> , 47, 2976-2983	3.9	49
78	Mesoporous Octahedron-Shaped Tricobalt Tetroxide Nanoparticles for Photocatalytic Degradation of Toxic Dyes. <i>ACS Omega</i> , <b>2020</b> , 5, 7823-7835	3.9	49
77	Metal/Metal Oxide Nanoparticles: Toxicity, Applications, and Future Prospects. <i>Current Pharmaceutical Design</i> , <b>2019</b> , 25, 4013-4029	3.3	45
76	Oil spill cleanup using graphene. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 3271-9	5.1	44
75	Rheology and microstructure of dilute graphene oxide suspension. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	44
74	Solution rheology of hydrophobically modified associative polymers: Effects of backbone composition and hydrophobe concentration. <i>Journal of Rheology</i> , <b>2004</b> , 48, 979-994	4.1	44
73	Brownian Motion of Colloidal Spheres in Aqueous PEO Solutions. <i>Macromolecules</i> , <b>2004</b> , 37, 3874-3880	5.5	41
72	Recent Advances in Applications of Hybrid Graphene Materials for Metals Removal from Wastewater. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	35
71	Heat transfer enhancement of nanofluids using iron nanoparticles decorated carbon nanotubes. <i>Applied Thermal Engineering</i> , <b>2016</b> , 107, 1008-1018	5.8	35
70	Effect of Synthesis on Performance of MXene/Iron Oxide Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , <b>2018</b> , 34, 11325-11334	4	34
69	Solution rheology of hydrophobically modified associative polymers: Solvent quality and hydrophobic interactions. <i>Journal of Rheology</i> , <b>2003</b> , 47, 497-511	4.1	32
68	Effect of Graphene Oxide Synthesis Method on Properties and Performance of Polysulfone-Graphene Oxide Mixed Matrix Membranes. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	31
67	Adsorption of a Switchable Cationic Surfactant on Natural Carbonate Minerals. <i>SPE Journal</i> , <b>2015</b> , 20, 70-78	3.1	31
66	Effect of solvent on the uncatalyzed synthesis of aminosilane-functionalized graphene. <i>RSC Advances</i> , <b>2014</b> , 4, 6830-6839	3.7	30
65	Developing Hydrophobic Graphene Foam for Oil Spill Cleanup. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 6945-6951	3.9	29

64	A critical review of phase change material composite performance through Figure-of-Merit analysis: Graphene vs Boron Nitride. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 365-387	19.4	29
63	Removal of emulsified and dissolved diesel oil from high salinity wastewater by adsorption onto graphene oxide. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103106	6.8	28
62	Graphene-Reinforced Bulk Metal Matrix Composites: Synthesis, Microstructure, and Properties. <i>Reviews on Advanced Materials Science</i> , <b>2020</b> , 59, 67-114	4.8	28
61	Removal of oil from oil/water emulsions using thermally reduced graphene and graphene nanoplatelets. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 137, 47-59	5.5	27
60	Thermally reduced graphene: synthesis, characterization and dye removal applications. <i>RSC Advances</i> , <b>2013</b> , 3, 24455	3.7	27
59	Influence of Functionalized Graphene Sheets on Modulus and Glass Transition of PMMA. <i>Macromolecules</i> , <b>2014</b> , 47, 7674-7676	5.5	26
58	Metal Organic Framework - Based Mixed Matrix Membranes for Carbon Dioxide Separation: Recent Advances and Future Directions. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 534	5	24
57	Corrosion inhibition of copper in sodium chloride solution using polyetherimide/graphene composites. <i>Canadian Journal of Chemical Engineering</i> , <b>2016</b> , 94, 896-904	2.3	24
56	Enhanced protective properties and UV stability of epoxy/graphene nanocomposite coating on stainless steel. <i>EXPRESS Polymer Letters</i> , <b>2016</b> , 10, 1034-1046	3.4	24
55	Thermodynamic assessment of an integrated renewable energy multigeneration system including ammonia as hydrogen carrier and phase change material energy storage. <i>Energy Conversion and Management</i> , <b>2019</b> , 198, 111809	10.6	20
54	In situ formed graphene/ZnO nanostructured composites for low temperature hydrogen sulfide removal from natural gas. <i>RSC Advances</i> , <b>2016</b> , 6, 81142-81150	3.7	18
53	Mixed matrix membranes containing aspartic acid functionalized graphene oxide for enhanced oil-water emulsion separation. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104269	6.8	18
52	Facile In Situ Fabrication of Nanostructured Graphene-CuO Hybrid with Hydrogen Sulfide Removal Capacity. <i>Nano-Micro Letters</i> , <b>2016</b> , 8, 312-319	19.5	17
51	Silver Nanoparticle-Based Nanocomposites for Combating Infectious Pathogens: Recent Advances and Future Prospects. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	16
50	Tracer microrheology study of a hydrophobically modified comblike associative polymer. <i>Langmuir</i> , <b>2015</b> , 31, 3944-51	4	14
49	Photocatalytic degradation of dyes by nanomaterials. <i>Materials Today: Proceedings</i> , <b>2020</b> , 29, 967-973	1.4	14
48	Nanoconfined Synthesis of Nitrogen-Rich Metal-Free Mesoporous Carbon Nitride Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1439-1447	6.1	14
47	Modeling of water diffusion mechanism in polypropylene/date palm fiber composite materials. <i>Journal of Composite Materials</i> , <b>2018</b> , 52, 2651-2659	2.7	13

46	Mechanical Characterization of Membranes <b>2017</b> , 259-306		11
45	Bioinspired graphene-based silver nanoparticles: Fabrication, characterization and antibacterial activity. <i>Materials Today: Proceedings</i> , <b>2020</b> , 29, 720-725	1.4	11
44	Thermal, electrical, and mechanical properties of highly filled HDPE/graphite nanoplatelets composites. <i>Materials Today: Proceedings</i> , <b>2020</b> , 29, 704-708	1.4	11
43	Template-free synthesis of Se-nanorods-rGO nanocomposite for application in supercapacitors. <i>Nanotechnology Reviews</i> , <b>2019</b> , 8, 661-670	6.3	11
42	Surfactant/organic solvent free single-step engineering of hybrid graphene-Pt/TiO nanostructure: Efficient photocatalytic system for the treatment of wastewater coming from textile industries. <i>Scientific Reports</i> , <b>2018</b> , 8, 14656	4.9	11
41	Manipulation of hydrophobic interactions in associative polymers using cyclodextrin and enzyme. <i>Soft Matter</i> , <b>2010</b> , 6, 4237	3.6	10
40	Thermally enhanced polyolefin composites: fundamentals, progress, challenges, and prospects. <i>Science and Technology of Advanced Materials</i> , <b>2020</b> , 21, 737-766	7.1	10
39	Removal of phenols and dyes from aqueous solutions using graphene and graphene composite adsorption: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105858	6.8	10
38	Enhancement of Thermoelectric Properties of Layered Chalcogenide Materials. <i>Reviews on Advanced Materials Science</i> , <b>2020</b> , 59, 371-378	4.8	9
37	Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior. <i>Polymers</i> , <b>2020</b> , 12,	4.5	9
36	Sulfamic acid promoted one-pot multicomponent reaction: a facile synthesis of 4-oxo-tetrahydroindoles under ball milling conditions.. <i>RSC Advances</i> , <b>2019</b> , 9, 39735-39742	3.7	9
35	Synthesis and characterization of polyethylene/oxidized polyethylene miscible blends and role of OPE as a viscosity control. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	8
34	Mesoporous PbO nanoparticle-catalyzed synthesis of arylbenzodioxo xanthenedione scaffolds under solvent-free conditions in a ball mill.. <i>RSC Advances</i> , <b>2019</b> , 9, 31683-31690	3.7	8
33	Adsorption of enhanced oil recovery polymer, schizophyllan, over carbonate minerals. <i>Carbohydrate Polymers</i> , <b>2020</b> , 240, 116263	10.3	8
32	Sustainability Assessment and Techno-Economic Analysis of Thermally Enhanced Polymer Tube for Multi-Effect Distillation (MED) Technology. <i>Polymers</i> , <b>2021</b> , 13,	4.5	8
31	Adsorptive Removal of Azithromycin Antibiotic from Aqueous Solution by Azolla Filiculoides-Based Activated Porous Carbon.. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	7
30	Technoeconomic analysis of tri hybrid reverse osmosis-forward osmosis-multi stage flash desalination process98, 1-15		7
29	Role of surface functionalization on corrosion resistance and thermal stability of epoxy/glass flake composite coating on cold rolled steel. <i>Progress in Organic Coatings</i> , <b>2018</b> , 122, 180-188	4.8	6

28	Influence of polymer structure and amount on microstructure and properties of polyethylene-modified asphalt binders. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2021</b> , 54, 1	3.4	6
27	Nanoporous carbon nitride with a high content of inbuilt N site for the CO capture. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124843	12.8	6
26	CO Surrogates: A Green Alternative in Palladium-Catalyzed CO Gas Free Carbonylation Reactions. <i>Current Organic Chemistry</i> , <b>2020</b> , 24, 2588-2600	1.7	5
25	Thermally enhanced pristine polyolefins: fundamentals, progress and prospective. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10796-10806	5.5	5
24	Validation of Total Mercury in Marine Sediment and Biological Samples, Using Cold Vapour Atomic Absorption Spectrometry. <i>Methods and Protocols</i> , <b>2018</b> , 1, 31	2.5	5
23	Electrooxidation behavior of ethanol toward carbon microbead-encapsulated ZnO particles derived from coffee waste. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 6530-6537	2.1	4
22	Ni-doped ZnO nanocrystalline material for electrocatalytic oxygen reduction reaction. <i>Materials Today: Proceedings</i> , <b>2020</b> , 29, 715-719	1.4	4
21	Characterization of Conductive Nanographite Melamine Composites. <i>Open Journal of Composite Materials</i> , <b>2014</b> , 04, 61-71	1.1	4
20	Efficient removal of different basic dyes using graphene68, 226-235		4
19	Synthesis of Poly-(R)-3 Hydroxyoctanoate (PHO) and Its Graphene Nanocomposites. <i>ACS Symposium Series</i> , <b>2013</b> , 199-209	0.4	3
18	Modeling the intrinsic viscosity of polydisperse disks. <i>Journal of Rheology</i> , <b>2017</b> , 61, 997-1006	4.1	3
17	Applications of Graphene in Catalysis. <i>Journal of Biofertilizers &amp; Biopesticides</i> , <b>2014</b> , 05,		3
16	CePd-Nanoparticles-Incorporated Carbon Nanofibers as Efficient Counter Electrode for DSSCs. <i>ChemistrySelect</i> , <b>2018</b> , 3, 12314-12319	1.8	3
15	Adsorption of a Switchable Cationic Surfactant on Natural Carbonate Minerals <b>2014</b> ,		2
14	Amine-Functionalized Graphene for Natural Gas Sweetening. <i>Advanced Materials Research</i> , <b>2014</b> , 1064, 21-25	0.5	2
13	Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and Mechanisms of Action. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
12	Self-Healing Silicones for Outdoor High Voltage Insulation: Mechanism, Applications and Measurements. <i>Energies</i> , <b>2022</b> , 15, 1677	3.1	2
11	Water Absorption and Stress Relaxation Behavior of PP/Date Palm Fiber Composite Materials. <i>Lecture Notes in Mechanical Engineering</i> , <b>2015</b> , 437-445	0.4	1

10	Novel Electrically Conductive Melamine-formaldehyde Nanocomposite Based on Graphite Nanosheets. <i>Macromolecular Symposia</i> , <b>2014</b> , 340, 73-80	0.8	1
9	Graphitic Carbon Nitride-Based Photocatalyst for Environmental Remediation of Organic Pollutants. <i>Current Nanoscience</i> , <b>2022</b> , 18,	1.4	1
8	Low density polyethylene for asphalt binder modification <b>2020</b> , 324-328		1
7	Nanocellulose and nanohydrogels for the development of cleaner energy and future sustainable materials <b>2020</b> , 81-113		1
6	Hierarchical Sphere-Like ZnO/CuO Grown in a Controlled Boundary Layer for High-Performance H <sub>2</sub> S Sensing. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 5168	1.9	1
5	Fabrication of Graphene Oxide-Based Membranes and their Applications in Water Treatment. <i>Current Pharmaceutical Biotechnology</i> , <b>2021</b> , 22, 1686-1704	2.6	1
4	Modulation of soft glassy dynamics in aqueous suspensions of an anisotropic charged swelling clay through pH adjustment. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 860-872	9.3	1
3	Enhanced thermal conductivity of polyethylene nanocomposites with graphene, granulated graphene, graphene nanoplatelet, and their hybrids. <i>International Journal of Energy Research</i> ,	4.5	0
2	Data on characterization and performance of aspartic acid functionalized graphene oxide-polysulfone mixed matrix membranes. <i>Data in Brief</i> , <b>2020</b> , 32, 106197	1.2	
1	Thermally Enhanced Polyethylene Nanocomposites for Polymer Heat Exchanger Applications. <i>Advances in Science, Technology and Innovation</i> , <b>2022</b> , 227-232	0.3	