

Sherif Araby

List of Publications by Year in descending order

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60
papers

2,859
citations

172386

29
h-index

175177

52
g-index

60
all docs

60
docs citations

60
times ranked

2841
citing authors

#	ARTICLE	IF	CITATIONS
1	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2012, 22, 2735-2743.	7.8	244
2	Electrically and thermally conductive elastomer/graphene nanocomposites by solution mixing. <i>Polymer</i> , 2014, 55, 201-210.	1.8	239
3	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1706705.	7.8	183
4	Mechanical and electrical properties of graphene and carbon nanotube reinforced epoxy adhesives: Experimental and numerical analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 120, 116-126.	3.8	135
5	A novel approach to electrically and thermally conductive elastomers using graphene. <i>Polymer</i> , 2013, 54, 3663-3670.	1.8	124
6	Melt compounding with graphene to develop functional, high-performance elastomers. <i>Nanotechnology</i> , 2013, 24, 165601.	1.3	124
7	Elastomeric composites based on carbon nanomaterials. <i>Nanotechnology</i> , 2015, 26, 112001.	1.3	119
8	Recent advances in carbon-based nanomaterials for flame retardant polymers and composites. <i>Composites Part B: Engineering</i> , 2021, 212, 108675.	5.9	110
9	Implication of multi-walled carbon nanotubes on polymer/graphene composites. <i>Materials & Design</i> , 2015, 65, 690-699.	5.1	99
10	Electrically conductive, mechanically robust, pH-sensitive graphene/polymer composite hydrogels. <i>Composites Science and Technology</i> , 2016, 127, 119-126.	3.8	99
11	Aerogels based on carbon nanomaterials. <i>Journal of Materials Science</i> , 2016, 51, 9157-9189.	1.7	82
12	Mechanical, toughness and thermal properties of 2D material- reinforced epoxy composites. <i>Polymer</i> , 2019, 184, 121884.	1.8	77
13	Free-standing, flexible, electrically conductive epoxy/graphene composite films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 42-50.	3.8	74
14	Thermally and electrically conductive multifunctional sensor based on epoxy/graphene composite. <i>Nanotechnology</i> , 2020, 31, 075702.	1.3	64
15	Electrically and thermally conductive elastomer by using MXene nanosheets with interface modification. <i>Chemical Engineering Journal</i> , 2020, 397, 125439.	6.6	61
16	Synergistic effect of graphene and carbon nanotube on lap shear strength and electrical conductivity of epoxy adhesives. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48056.	1.3	56
17	Performance analysis of wire electrochemical turning processâ€”RSM approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 53, 181-190.	1.5	52
18	From clay to graphene for polymer nanocompositesâ€”a survey. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	52

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19	A facile approach to fabricate highly sensitive, flexible strain sensor based on elastomeric/graphene platelet composite film. <i>Journal of Materials Science</i> , 2019, 54, 10856-10870.	1.7	50
20	Real-time cure behaviour monitoring of polymer composites using a highly flexible and sensitive CNT buckypaper sensor. <i>Composites Science and Technology</i> , 2017, 152, 181-189.	3.8	49
21	Epoxy/graphene film for lifecycle self-sensing and multifunctional applications. <i>Composites Science and Technology</i> , 2020, 198, 108312.	3.8	49
22	Mechanically robust, electrically and thermally conductive graphene-based epoxy adhesives. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 1337-1356.	1.4	45
23	Effect of carbon black loading on mechanical and rheological properties of natural rubber/styrene-butadiene rubber/nitrile butadiene rubber blends. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 490-507.	2.6	42
24	Combining hydrophilic MXene nanosheets and hydrophobic carbon nanotubes for mechanically resilient and electrically conductive elastomer nanocomposites. <i>Composites Science and Technology</i> , 2021, 214, 108997.	3.8	37
25	Interface modification of clay and graphene platelets reinforced epoxy nanocomposites: a comparative study. <i>Journal of Materials Science</i> , 2014, 49, 5856-5865.	1.7	35
26	A comparative study of polymer nanocomposites containing multi-walled carbon nanotubes and graphene nanoplatelets. <i>Nano Materials Science</i> , 2022, 4, 185-204.	3.9	35
27	Graphene for flame-retarding elastomeric composite foams having strong interface. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 101, 254-264.	3.8	33
28	An integrated framework of statistical process control and design of experiments for optimizing wire electrochemical turning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 53, 191-207.	1.5	31
29	Elastomer nanocomposites containing MXene for mechanical robustness and electrical and thermal conductivity. <i>Nanotechnology</i> , 2020, 31, 315715.	1.3	31
30	Graphene platelets versus phosphorus compounds for elastomeric composites: flame retardancy, mechanical performance and mechanisms. <i>Nanotechnology</i> , 2019, 30, 385703.	1.3	30
31	Toughening polymer adhesives using nanosized elastomeric particles. <i>Journal of Materials Research</i> , 2014, 29, 665-674.	1.2	29
32	Effect of interface modification on PMMA/graphene nanocomposites. <i>Journal of Materials Science</i> , 2014, 49, 5838-5849.	1.7	28
33	High-mass loading electrodes with exceptional areal capacitance and cycling performance through a hierarchical network of MnO ₂ nanoflakes and conducting polymer gel. <i>Journal of Power Sources</i> , 2019, 412, 655-663.	4.0	27
34	Development of flame-retarding elastomeric composites with high mechanical performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 257-266.	3.8	26
35	Filling natural microtubules with triphenyl phosphate for flame-retarding polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 115, 247-254.	3.8	25
36	Stretchable, mechanically resilient, and high electromagnetic shielding polymer/MXene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50509.	1.3	23

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37	Study on the wire electrochemical groove turning process. Journal of Applied Electrochemistry, 2011, 41, 161-171.	1.5	22
38	Effect of sample size on the performance of Shewhart control charts. International Journal of Advanced Manufacturing Technology, 2017, 90, 1177-1185.	1.5	22
39	The effects of bolted joints on dynamic response of structures. IOP Conference Series: Materials Science and Engineering, 2013, 50, 012018.	0.3	20
40	Influence of Interface on epoxy/clay Nanocomposites: 2. Mechanical and Thermal Dynamic Properties. Procedia Manufacturing, 2015, 2, 23-27.	1.9	16
41	A comparative study on mechanical and rheological properties of ternary rubber blends. Polymers and Polymer Composites, 2021, 29, 15-28.	1.0	14
42	Thermoelectric generator based on anisotropic wood aerogel for low-grade heat energy harvesting. Journal of Materials Science and Technology, 2022, 120, 150-158.	5.6	14
43	Superior piezoelectric composite films: taking advantage of carbon nanomaterials. Nanotechnology, 2014, 25, 045501.	1.3	13
44	Influence of Interface on epoxy/clay Nanocomposites: 1. Morphology Structure. Procedia Manufacturing, 2015, 2, 17-22.	1.9	12
45	Non-oxidized graphene/metal composites by laser deposition additive manufacturing. Journal of Alloys and Compounds, 2021, 882, 160724.	2.8	11
46	Investigation on graphene addition on the quasi-static and dynamic responses of carbon fibre-reinforced metal laminates. Thin-Walled Structures, 2022, 174, 109092.	2.7	11
47	Study of Passive Vibration Absorbers Attached on Beam Structure. Applied Mechanics and Materials, 0, 660, 511-515.	0.2	10
48	Thermal conductivity and mechanical performance of hexagonal boron nitride nanosheets-based epoxy adhesives. Nanotechnology, 2021, 32, 355707.	1.3	10
49	Vibration Characteristics of Composite Plate Embedded with Shape Memory Alloy at Elevated Temperature. Applied Mechanics and Materials, 2013, 393, 655-660.	0.2	9
50	Accurate self-damage detection by electrically conductive epoxy/graphene nanocomposite film. Journal of Applied Polymer Science, 2021, 138, 50452.	1.3	9
51	Vibration Attenuation of Plate Using Multiple Vibration Absorbers. MATEC Web of Conferences, 2014, 13, 03003.	0.1	8
52	Grooves into cylindrical shapes by wire electrochemical machining. International Journal of Advanced Manufacturing Technology, 2017, 90, 445-455.	1.5	8
53	The Application of Multiple Vibration Neutralizers for Vibration Control in Aircraft. Applied Mechanics and Materials, 2014, 629, 191-196.	0.2	7
54	Graphene/nanorubber reinforced electrically conductive epoxy composites with enhanced toughness. Journal of Applied Polymer Science, 2021, 138, 50163.	1.3	7

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55	Porous polyvinyl alcohol/graphene oxide composite film for strain sensing and energy-storage applications. <i>Nanotechnology</i> , 2022, 33, 415701.	1.3	6
56	Constitutive modelling of elastomer/graphene platelet nanocomposites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 244, 012016.	0.3	5
57	Multifunctional, flexible and mechanically resilient porous polyurea/graphene composite film. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 549-562.	2.9	4
58	A facile approach to fabricate elastomer/graphene platelets nanocomposites. , 2013, , .		1
59	Effect of graphene on the mechanical and electrochemical properties of GLARE. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 2159-2175.	1.4	1
60	Design and development of small capacity vertical axis wind turbine. , 2018, , .		0