Sherif Araby

List of Publications by Year
in descending order

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60 papers	2,859 citations	172457 29 h-index	175258 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. Advanced Functional Materials, 2012, 22, 2735-2743.	14.9	244
2	Electrically and thermally conductive elastomer/graphene nanocomposites by solution mixing. Polymer, 2014, 55, 201-210.	3.8	239
3	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. Advanced Functional Materials, 2018, 28, 1706705.	14.9	183
4	Mechanical and electrical properties of graphene and carbon nanotube reinforced epoxy adhesives: Experimental and numerical analysis. Composites Part A: Applied Science and Manufacturing, 2019, 120, 116-126.	7.6	135
5	A novel approach to electrically and thermally conductive elastomers using graphene. Polymer, 2013, 54, 3663-3670.	3.8	124
6	Melt compounding with graphene to develop functional, high-performance elastomers. Nanotechnology, 2013, 24, 165601.	2.6	124
7	Elastomeric composites based on carbon nanomaterials. Nanotechnology, 2015, 26, 112001.	2.6	119
8	Recent advances in carbon-based nanomaterials for flame retardant polymers and composites. Composites Part B: Engineering, 2021, 212, 108675.	12.0	110
9	Implication of multi-walled carbon nanotubes on polymer/graphene composites. Materials & Design, 2015, 65, 690-699.	5.1	99
10	Electrically conductive, mechanically robust, pH-sensitive graphene/polymer composite hydrogels. Composites Science and Technology, 2016, 127, 119-126.	7.8	99
11	Aerogels based on carbon nanomaterials. Journal of Materials Science, 2016, 51, 9157-9189.	3.7	82
12	Mechanical, toughness and thermal properties of 2D material- reinforced epoxy composites. Polymer, 2019, 184, 121884.	3.8	77
13	Free-standing, flexible, electrically conductive epoxy/graphene composite films. Composites Part A: Applied Science and Manufacturing, 2017, 92, 42-50.	7.6	74
14	Thermally and electrically conductive multifunctional sensor based on epoxy/graphene composite. Nanotechnology, 2020, 31, 075702.	2.6	64
15	Electrically and thermally conductive elastomer by using MXene nanosheets with interface modification. Chemical Engineering Journal, 2020, 397, 125439.	12.7	61
16	Synergistic effect of graphene and carbon nanotube on lap shear strength and electrical conductivity of epoxy adhesives. Journal of Applied Polymer Science, 2019, 136, 48056.	2.6	56
17	Performance analysis of wire electrochemical turning processâ€"RSM approach. International Journal of Advanced Manufacturing Technology, 2011, 53, 181-190.	3.0	52
18	From clay to graphene for polymer nanocompositesâ€"a survey. Journal of Polymer Research, 2014, 21, 1.	2.4	52

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19	A facile approach to fabricate highly sensitive, flexible strain sensor based on elastomeric/graphene platelet composite film. Journal of Materials Science, 2019, 54, 10856-10870.	3.7	50
20	Real-time cure behaviour monitoring of polymer composites using a highly flexible and sensitive CNT buckypaper sensor. Composites Science and Technology, 2017, 152, 181-189.	7.8	49
21	Epoxy/graphene film for lifecycle self-sensing and multifunctional applications. Composites Science and Technology, 2020, 198, 108312.	7.8	49
22	Mechanically robust, electrically and thermally conductive graphene-based epoxy adhesives. Journal of Adhesion Science and Technology, 2019, 33, 1337-1356.	2.6	45
23	Effect of carbon black loading on mechanical and rheological properties of natural rubber/styrene-butadiene rubber/nitrile butadiene rubber blends. Journal of Thermoplastic Composite Materials, 2021, 34, 490-507.	4.2	42
24	Combining hydrophilic MXene nanosheets and hydrophobic carbon nanotubes for mechanically resilient and electrically conductive elastomer nanocomposites. Composites Science and Technology, 2021, 214, 108997.	7.8	37
25	Interface modification of clay and graphene platelets reinforced epoxy nanocomposites: a comparative study. Journal of Materials Science, 2014, 49, 5856-5865.	3.7	35
26	A comparative study of polymer nanocomposites containing multi-walled carbon nanotubes and graphene nanoplatelets. Nano Materials Science, 2022, 4, 185-204.	8.8	35
27	Graphene for flame-retarding elastomeric composite foams having strong interface. Composites Part A: Applied Science and Manufacturing, 2017, 101, 254-264.	7.6	33
28	An integrated framework of statistical process control and design of experiments for optimizing wire electrochemical turning process. International Journal of Advanced Manufacturing Technology, 2011, 53, 191-207.	3.0	31
29	Elastomer nanocomposites containing MXene for mechanical robustness and electrical and thermal conductivity. Nanotechnology, 2020, 31, 315715.	2.6	31
30	Graphene platelets versus phosphorus compounds for elastomeric composites: flame retardancy, mechanical performance and mechanisms. Nanotechnology, 2019, 30, 385703.	2.6	30
31	Toughening polymer adhesives using nanosized elastomeric particles. Journal of Materials Research, 2014, 29, 665-674.	2.6	29
32	Effect of interface modification on PMMA/graphene nanocomposites. Journal of Materials Science, 2014, 49, 5838-5849.	3.7	28
33	High-mass loading electrodes with exceptional areal capacitance and cycling performance through a hierarchical network of MnO2 nanoflakes and conducting polymer gel. Journal of Power Sources, 2019, 412, 655-663.	7.8	27
34	Development of flame-retarding elastomeric composites with high mechanical performance. Composites Part A: Applied Science and Manufacturing, 2018, 109, 257-266.	7.6	26
35	Filling natural microtubules with triphenyl phosphate for flame-retarding polymer composites. Composites Part A: Applied Science and Manufacturing, 2018, 115, 247-254.	7.6	25
36	Stretchable, mechanically resilient, and high electromagnetic shielding polymer/<scp>MXene</scp> nanocomposites. Journal of Applied Polymer Science, 2021, 138, 50509.	2.6	23

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37	Study on the wire electrochemical groove turning process. Journal of Applied Electrochemistry, 2011, 41, 161-171.	2.9	22
38	Effect of sample size on the performance of Shewhart control charts. International Journal of Advanced Manufacturing Technology, 2017, 90, 1177-1185.	3.0	22
39	The effects of bolted joints on dynamic response of structures. IOP Conference Series: Materials Science and Engineering, 2013, 50, 012018.	0.6	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.	1.9	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.	10.7	14
43	Superior piezoelectric composite films: taking advantage of carbon nanomaterials. Nanotechnology, 2014, 25, 045501.	2.6	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.	5.5	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.	5.3	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.	2.6	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 selfâ€damage detection by electrically conductive epoxy/graphene nanocomposite film. Journal of Applied Polymer Science, 2021, 138, 50452.	2.6	9
51	Vibration Attenuation of Plate Using Multiple Vibration Absorbers. MATEC Web of Conferences, 2014, 13, 03003.	0.2	8
52	Grooves into cylindrical shapes by wire electrochemical machining. International Journal of Advanced Manufacturing Technology, 2017, 90, 445-455.	3.0	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.	2.6	7

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55	Porous polyvinyl alcohol/graphene oxide composite film for strain sensing and energy-storage applications. Nanotechnology, 2022, 33, 415701.	2.6	6
56	Constitutive modelling of elastomer/graphene platelet nanocomposites. IOP Conference Series: Materials Science and Engineering, 2017, 244, 012016.	0.6	5
57	Multifunctional, flexible and mechanically resilient porous polyurea/graphene composite film. Journal of Industrial and Engineering Chemistry, 2022, 105, 549-562.	5.8	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. Journal of Adhesion Science and Technology, 2022, 36, 2159-2175.	2.6	1
60	Design and development of small capacity vertical axis wind turbine. , 2018, , .		0