

Nishar Hameed

List of Publications by Year in descending order

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103
papers

3,633
citations

147801
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105
all docs

105
docs citations

105
times ranked

4313
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances and future outlook in epoxy/graphene composites for anticorrosive applications. Progress in Organic Coatings, 2022, 162, 106571.	3.9	29
2	Biodegradable polymers and green-based antimicrobial packaging materials. , 2022, , 717-733.		4
3	Magnetic field induced alignment of macroradical epoxy for enhanced electrical properties. Soft Matter, 2022, 18, 5194-5203.	2.7	5
4	Scalable Production and Thermoelectrical Modeling of Infusible Functional Graphene/Epoxy Nanomaterials for Engineering Applications. Industrial & Engineering Chemistry Research, 2022, 61, 5141-5157.	3.7	3
5	Tailoring mechanical and electrical properties of graphene oxide film for structural dielectric capacitors. Journal of Power Sources, 2021, 482, 229020.	7.8	14
6	Isolation and characterization of cellulose nanowhiskers from <i>Acacia caesia</i> plant. Journal of Applied Polymer Science, 2021, 138, 50213.	2.6	25
7	Recent progress and multifunctional applications of 3D printed graphene nanocomposites. Composites Part B: Engineering, 2021, 204, 108493.	12.0	90
8	Graphene as a piezo-resistive coating to enable strain monitoring in glass fiber composites. Composites Science and Technology, 2021, 211, 108842.	7.8	25
9	Modelling, fabrication and characterization of graphene/polymer nanocomposites for electromagnetic interference shielding applications. Carbon Trends, 2021, 4, 100047.	3.0	32
10	Macroradical enables electrical conduction in epoxy thermoset. Polymer, 2021, 230, 124046.	3.8	5
11	Ruthenium single atoms implanted continuous MoS ₂ -Mo ₂ C heterostructure for high-performance and stable water splitting. Nano Energy, 2021, 88, 106277.	16.0	68
12	A comprehensive review on cellulose, chitin, and starch as fillers in natural rubber biocomposites. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100095.	2.6	28
13	Distribution states of graphene in polymer nanocomposites: A review. Composites Part B: Engineering, 2021, 226, 109353.	12.0	67
14	Bio-oil production from pyrolysis of oil palm biomass and the upgrading technologies: A review. Carbon Resources Conversion, 2021, 4, 239-250.	5.9	54
15	Multifunctionality in Epoxy Resins. Polymer Reviews, 2020, 60, 1-41.	10.9	182
16	Intermolecular hydrogen bonding in developing nanostructured epoxy shape memory thermosets: Effects on morphology, thermo-mechanical properties and surface wetting. Polymer Testing, 2020, 81, 106279.	4.8	11
17	Core-Shell Nanofibers of Polyvinylidene Fluoride-based Nanocomposites as Piezoelectric Nanogenerators. Polymers, 2020, 12, 2344.	4.5	31
18	Graphene oxide thin film structural dielectric capacitors for aviation static electricity harvesting and storage. Composites Part B: Engineering, 2020, 201, 108375.	12.0	22

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19	Tailoring specific properties of polymer-based composites by using graphene and its associated compounds. International Journal of Smart and Nano Materials, 2020, 11, 173-189.	4.2	7
20	Rapid Cross-Linking of Epoxy Thermosets Induced by Solvate Ionic Liquids. ACS Applied Polymer Materials, 2020, 2, 2651-2657.	4.4	19
21	Additive Manufacturing of Epoxy Resins: Materials, Methods, and Latest Trends. Industrial & Engineering Chemistry Research, 2020, 59, 6375-6390.	3.7	49
22	Accelerated weathering studies of bioepoxy/ionic liquid blends: influence on physical, thermo-mechanical, morphology and surface properties. Materials Research Express, 2020, 7, 025302.	1.6	8
23	Evolving Strategies for Producing Multiscale Graphene-Enhanced Fiber-Reinforced Polymer Composites for Smart Structural Applications. Advanced Science, 2020, 7, 1903501.	11.2	71
24	A Review on Graphene Polymer Nanocomposites in Harsh Operating Conditions. Industrial & Engineering Chemistry Research, 2019, 58, 17106-17129.	3.7	31
25	Effect of graphene oxide concentration on the flexural properties of CFRP at low temperature. Carbon, 2019, 152, 556-564.	10.3	47
26	Wet-Spinning and carbonization of graphene/PAN-based fibers: Toward improving the properties of carbon fibers. Journal of Applied Polymer Science, 2019, 136, 47932.	2.6	13
27	Large, Mesoporous Carbon Nanoparticles with Tunable Architectures for Energy Storage. ACS Applied Nano Materials, 2019, 2, 1727-1736.	5.0	9
28	Property enhancement of CFRP composites with different graphene oxide employment methods at a cryogenic temperature. Composites Part A: Applied Science and Manufacturing, 2019, 120, 56-63.	7.6	32
29	Toughened PS/LDPE/SEBS/xGnP ternary composites: morphology, mechanical and viscoelastic properties. International Journal of Lightweight Materials and Manufacture, 2019, 2, 64-71.	2.1	3
30	Mechanical, Thermal, and Morphological Behavior of Silicone Rubber during Accelerated Aging. Polymer-Plastics Technology and Engineering, 2018, 57, 1687-1696.	1.9	61
31	Graphene based room temperature flexible nanocomposites from permanently cross-linked networks. Scientific Reports, 2018, 8, 2803.	3.3	28
32	A critical review on multifunctional composites as structural capacitors for energy storage. Composite Structures, 2018, 188, 126-142.	5.8	89
33	Surface modification of carbon fibre using graphene-related materials for multifunctional composites. Composites Part B: Engineering, 2018, 133, 240-257.	12.0	123
34	Recent Advances in Macro ATR-FTIR Microspectroscopic Technique for High Resolution Surface Characterisation at Australian Synchrotron IR Beamline. , 2018, , .		0
35	High performance <sc>PP/SEBS/CNF</sc> composites: Evaluation of mechanical, thermal degradation, and crystallization properties. Polymer Composites, 2017, 38, 2440-2449.	4.6	13
36	Radial structure and property relationship in the thermal stabilization of PAN precursor fibres. Polymer Testing, 2017, 59, 203-211.	4.8	37

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37	Morphology, thermo-mechanical properties and surface hydrophobicity of nanostructured epoxy thermosets modified with PEO-PPO-PEO triblock copolymer. Polymer Testing, 2017, 59, 168-176.	4.8	18
38	Phase morphology, mechanical, dynamic mechanical, crystallization, and thermal degradation properties of PP and PP/PS blends modified with SEBS elastomer. International Journal of Plastics Technology, 2017, 21, 79-95.	3.1	13
39	The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. Journal of Materials Chemistry A, 2017, 5, 7372-7382.	10.3	40
40	Evolution of radial heterogeneity in polyacrylonitrile fibres during thermal stabilization: An overview. Polymer Degradation and Stability, 2017, 136, 20-30.	5.8	60
41	Reaction-induced phase separation and resulting thermomechanical and surface properties of epoxy resin<i>/i>poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide) blends cured with 4,4'-diaminodiphenylsulfone. Journal of Applied Polymer Science, 2017, 134, .	2.6	11
42	Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters. Optical Materials, 2017, 73, 695-705.	3.6	19
43	Zinc Oxide PVDF Nano-Composites-Tuning Interfaces toward Enhanced Mechanical Properties and UV Protection. Advanced Engineering Materials, 2017, 19, 1600611.	3.5	11
44	Light Scattering of Epoxy/Thermoplastic Blends. , 2017, , 557-582.		1
45	Water Sorption and Solvent Sorption of Epoxy/Block-Copolymer and Epoxy/Thermoplastic Blends. , 2017, , 1097-1111.		1
46	Thermal Properties of Epoxy/Block-Copolymer Blends. , 2017, , 1041-1065.		0
47	Dynamic Mechanical Thermal Analysis of Epoxy/Block-Copolymer Blends. , 2017, , 1007-1040.		0
48	Miscibility, UV resistance, thermal degradation, and mechanical properties of PMMA/SAN blends and their composites with MWCNTs. Journal of Applied Polymer Science, 2016, 133, .	2.6	12
49	Tailoring of interface of polypropylene/polystyrene/carbon nanofibre composites by polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene. Polymer Testing, 2016, 51, 131-141.	4.8	16
50	Miscibility, Phase Morphology, Thermomechanical, Viscoelastic and Surface Properties of Poly(μ -caprolactone) Modified Epoxy Systems: Effect of Curing Agents. Industrial & Engineering Chemistry Research, 2016, 55, 10055-10064.	3.7	26
51	Introduction to Nanomaterials and Nanocomposites. , 2016, , 1-4.		4
52	Micro phase separated epoxy/poly(μ -caprolactone)-block-poly(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (siloxane)-block-poly(ethylene oxide) blends modified with SEBS elastomer. International Journal of Plastics Technology, 2017, 21, 79-95.	4.8	13
53	Preparation of microporous carbon materials via in-depth sulfonation and stabilization of polyethylene. Polymer Degradation and Stability, 2016, 134, 272-283.	5.8	19
54	A facile method to fabricate carbon nanostructures via the self-assembly of polyacrylonitrile/poly(methyl methacrylate-b-polyacrylonitrile) AB/B ϵ^2 type block copolymer/homopolymer blends. RSC Advances, 2016, 6, 55792-55799.	3.6	11

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55	Carbon Nexus at Deakin University: a globally unique carbon fiber and composite research facility in Australia. Reinforced Plastics, 2016, 60, 396-400.	0.1	4
56	Investigation of progress of reactions and evolution of radial heterogeneity in the initial stage of thermal stabilization of PAN precursor fibres. Polymer Degradation and Stability, 2016, 125, 105-114.	5.8	62
57	Structural transformation of polyacrylonitrile fibers during stabilization and low temperature carbonization. Polymer Degradation and Stability, 2016, 128, 39-45.	5.8	98
58	Dynamical Mechanical Thermal Analysis of Epoxy-/Block-Copolymer Blends. , 2016, , 1-34.		2
59	Dynamical Mechanical Thermal Analysis of Epoxy-/Block-Copolymer Blends. , 2016, , 1-34.		0
60	Dynamic Mechanical Thermal Analysis of Epoxy-/Block-Copolymer Blends. , 2016, , 1-34.		0
61	Thermal Properties of Epoxy/Block Copolymer Blends. , 2016, , 1-25.		0
62	Water Sorption and Solvent Sorption of Epoxy/Block copolymer and Epoxy/Thermoplastic Blends. , 2016, , 1-16.		1
63	Phase morphology, thermomechanical, and crystallization behavior of uncompatibilized and <sc>PP</sc>-i>g</i>-<sc>MAH</sc> compatibilized polypropylene/polystyrene blends. Journal of Applied Polymer Science, 2015, 132, .	2.6	22
64	Control of Partial Coalescence of Self-Assembled Metal Nano-Particles across Lyotropic Liquid Crystals Templates towards Long Range Meso-Porous Metal Frameworks Design. Nanomaterials, 2015, 5, 1766-1781.	4.1	7
65	Flower like micellar assemblies in poly(styrene)-block-poly(4-vinyl pyridine)/poly(acrylic acid) complexes. Materials Letters, 2015, 147, 92-96.	2.6	9
66	Novel Approach to Trigger Nanostructures in Thermosets Using Competitive Hydrogen-Bonding-Induced Phase Separation (CHIPS). Macromolecules, 2015, 48, 8337-8345.	4.8	10
67	The effect of polypropylene-graft-maleic anhydride on the morphology and dynamic mechanical properties of polypropylene/polystyrene blends. Journal of Polymer Research, 2015, 22, 1.	2.4	26
68	Thermally flexible epoxy/cellulose blends mediated by an ionic liquid. RSC Advances, 2015, 5, 52832-52836.	3.6	10
69	The role of SEBS in tailoring the interface between the polymer matrix and exfoliated graphene nanoplatelets in hybrid composites. Materials Chemistry and Physics, 2015, 163, 182-189.	4.0	19
70	Evaluation of polyvinyl alcohol composite membranes containing collagen and bone particles. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 38-45.	3.1	21
71	Development of hybrid composites for automotive applications: effect of addition of SEBS on the morphology, mechanical, viscoelastic, crystallization and thermal degradation properties of PP/PS-xGnP composites. RSC Advances, 2015, 5, 25634-25641.	3.6	27
72	Mechanical Property and Structure of Covalent Functionalised Graphene/Epoxy Nanocomposites. Scientific Reports, 2014, 4, 4375.	3.3	458

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73	Dispersing single-walled carbon nanotubes in ionic liquids: a quantitative analysis. RSC Advances, 2013, 3, 20034.	3.6	26
74	Temperature variations at nano-scale level in phase transformed nanocrystalline NiTi shape memory alloys adjacent to graphene layers. Nanoscale, 2013, 5, 6479.	5.6	12
75	Individual dispersion of carbon nanotubes in epoxy via a novel dispersion-curing approach using ionic liquids. Physical Chemistry Chemical Physics, 2013, 15, 11696.	2.8	37
76	Microphase separation induced by competitive hydrogen bonding interactions in semicrystalline triblock copolymer/homopolymer complexes. Soft Matter, 2013, 9, 6176.	2.7	16
77	Effect of graphene layers on the thermomechanical behaviour of a NiTi shape memory alloy during the nanoscale phase transition. Scripta Materialia, 2013, 68, 420-423.	5.2	14
78	Fabrication and characterization of transparent and biodegradable cellulose/poly (vinyl alcohol) blend films using an ionic liquid. Cellulose, 2013, 20, 2517-2527.	4.9	20
79	Nanofibrillar Micelles and Entrapped Vesicles from Biodegradable Block Copolymer/Polyelectrolyte Complexes in Aqueous Media. Langmuir, 2013, 29, 9240-9248.	3.5	10
80	Effects of dynamic loading on nano-scale depth-recovery and damping property of single crystal CuAlNi shape memory alloy. Journal of Alloys and Compounds, 2012, 545, 222-224.	5.5	11
81	A new route to nanostructured thermosets with block ionomer complexes. Soft Matter, 2012, 8, 688-698.	2.7	30
82	Toughening Epoxy Thermosets with Block Ionomer Complexes: A Nanostructure-Mechanical Property Correlation. Macromolecules, 2012, 45, 3829-3840.	4.8	104
83	Cellulose/polycaprolactone blends regenerated from ionic liquid 1-butyl-3-methylimidazolium chloride. Carbohydrate Polymers, 2012, 90, 575-582.	10.2	34
84	The preparation of novel nanofilled polymer composites using poly(L-lactic acid) and protein fibers. European Polymer Journal, 2011, 47, 1279-1283.	5.4	25
85	Blends of cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) prepared from the ionic liquid 1-butyl-3-methylimidazolium chloride. Carbohydrate Polymers, 2011, 86, 94-104.	10.2	52
86	Blend films of natural wool and cellulose prepared from an ionic liquid. Cellulose, 2010, 17, 803-813.	4.9	89
87	Nanostructures and thermomechanical properties of epoxy thermosets containing reactive diblock copolymer. Journal of Applied Polymer Science, 2010, 115, 2110-2118.	2.6	17
88	Complexation and eutectic crystallization in poly(2-vinyl pyridine)-block-poly(ϵ -caprolactone) and pentadecylphenol mixtures. European Polymer Journal, 2010, 46, 2290-2299.	5.4	5
89	Hydrogen bonding interactions, crystallization, and surface hydrophobicity in nanostructured epoxy/block copolymer blends. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 790-800.	2.1	48
90	Reactive block copolymer modified thermosets: highly ordered nanostructures and improved properties. Soft Matter, 2010, 6, 6119.	2.7	73

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91	Microphase separation through competitive hydrogen bonding in self-assembled A-b-B/C diblock copolymer/homopolymer complexes. <i>Journal of Chemical Physics</i> , 2009, 131, 214905.	3.0	28
92	Natural wool/cellulose acetate blends regenerated from the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Carbohydrate Polymers</i> , 2009, 78, 999-1004.	10.2	42
93	High performance composite from epoxy and glass fibers: Morphology, mechanical, dynamic mechanical, and thermal analysis. <i>Polymer Composites</i> , 2009, 30, 982-992.	4.6	24
94	Eutectic crystallization and hydrogen bonding interactions in polymer/surfactant blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1015-1023.	2.1	5
95	Self-Assembled complexes of poly(acrylic acid) and poly(styrene)- <i>block</i> -poly(4-vinyl pyridine). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1192-1202.	2.1	11
96	Competitive hydrogen bonding and self-assembly in poly(2-vinyl pyridine)- <i>block</i> -poly(methyl Tj ETQq0 0 0 rgBT /Overlock Physics	2.1	32
97	Mechanical properties of poly(styrene- <i>co</i> -acrylonitrile)-modified epoxy resin/glass fiber composites. <i>Journal of Applied Polymer Science</i> , 2008, 110, 3431-3438.	2.6	16
98	Selective hydrogen bonding and hierarchical nanostructures in poly(hydroxyether of bisphenol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	3.8	46
99	Nanostructure and hydrogen bonding in interpolyelectrolyte complexes of poly(ϵ -caprolactone)- <i>block</i> -poly(2-vinyl pyridine) and poly(acrylic acid). <i>Polymer</i> , 2008, 49, 5268-5275.	3.8	31
100	Self-Assembled Complexes of Poly(4-vinylphenol) and Poly(μ -caprolactone)- <i>block</i> -poly(2-vinylpyridine) via Competitive Hydrogen Bonding. <i>Macromolecules</i> , 2008, 41, 7596-7605.	4.8	65
101	Morphology, dynamic mechanical and thermal studies on poly(styrene-co-acrylonitrile) modified epoxy resin/glass fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2422-2432.	7.6	258
102	Morphology and contact angle studies of poly(styrene-co-acrylonitrile) modified epoxy resin blends and their glass fibre reinforced composites. <i>EXPRESS Polymer Letters</i> , 2007, 1, 345-355.	2.1	62
103	Development of a shear forming envelope for carbon fibre non-crimp fabrics. <i>Journal of Industrial Textiles</i> , 0, , 152808372110154.	2.4	1