

Nishar Hameed

List of Publications by Year in descending order

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103
papers

3,633
citations

147566

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149479

56
g-index

105
all docs

105
docs citations

105
times ranked

4313
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mechanical Property and Structure of Covalent Functionalised Graphene/Epoxy Nanocomposites. Scientific Reports, 2014, 4, 4375. | 1.6 | 458 |
| 2 | Morphology, dynamic mechanical and thermal studies on poly(styrene-co-acrylonitrile) modified epoxy resin/glass fibre composites. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2422-2432. | 3.8 | 258 |
| 3 | Multifunctionality in Epoxy Resins. Polymer Reviews, 2020, 60, 1-41. | 5.3 | 182 |
| 4 | Surface modification of carbon fibre using graphene-related materials for multifunctional composites. Composites Part B: Engineering, 2018, 133, 240-257. | 5.9 | 123 |
| 5 | Toughening Epoxy Thermosets with Block Ionomer Complexes: A Nanostructure-Mechanical Property Correlation. Macromolecules, 2012, 45, 3829-3840. | 2.2 | 104 |
| 6 | Structural transformation of polyacrylonitrile fibers during stabilization and low temperature carbonization. Polymer Degradation and Stability, 2016, 128, 39-45. | 2.7 | 98 |
| 7 | Recent progress and multifunctional applications of 3D printed graphene nanocomposites. Composites Part B: Engineering, 2021, 204, 108493. | 5.9 | 90 |
| 8 | Blend films of natural wool and cellulose prepared from an ionic liquid. Cellulose, 2010, 17, 803-813. | 2.4 | 89 |
| 9 | A critical review on multifunctional composites as structural capacitors for energy storage. Composite Structures, 2018, 188, 126-142. | 3.1 | 89 |
| 10 | Reactive block copolymer modified thermosets: highly ordered nanostructures and improved properties. Soft Matter, 2010, 6, 6119. | 1.2 | 73 |
| 11 | Evolving Strategies for Producing Multiscale Graphene-Enhanced Fiber-Reinforced Polymer Composites for Smart Structural Applications. Advanced Science, 2020, 7, 1903501. | 5.6 | 71 |
| 12 | Ruthenium single atoms implanted continuous MoS ₂ -Mo ₂ C heterostructure for high-performance and stable water splitting. Nano Energy, 2021, 88, 106277. | 8.2 | 68 |
| 13 | Distribution states of graphene in polymer nanocomposites: A review. Composites Part B: Engineering, 2021, 226, 109353. | 5.9 | 67 |
| 14 | Self-Assembled Complexes of Poly(4-vinylphenol) and Poly(μ -caprolactone)- <i>block</i> -poly(2-vinylpyridine) via Competitive Hydrogen Bonding. Macromolecules, 2008, 41, 7596-7605. | 2.2 | 65 |
| 15 | 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. | 2.7 | 62 |
| 16 | Morphology and contact angle studies of poly(styrene-co-acrylonitrile) modified epoxy resin blends and their glass fibre reinforced composites. EXPRESS Polymer Letters, 2007, 1, 345-355. | 1.1 | 62 |
| 17 | Mechanical, Thermal, and Morphological Behavior of Silicone Rubber during Accelerated Aging. Polymer-Plastics Technology and Engineering, 2018, 57, 1687-1696. | 1.9 | 61 |
| 18 | Evolution of radial heterogeneity in polyacrylonitrile fibres during thermal stabilization: An overview. Polymer Degradation and Stability, 2017, 136, 20-30. | 2.7 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Bio-oil production from pyrolysis of oil palm biomass and the upgrading technologies: A review. <i>Carbon Resources Conversion</i> , 2021, 4, 239-250. | 3.2 | 54 |
| 20 | Blends of cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) prepared from the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Carbohydrate Polymers</i> , 2011, 86, 94-104. | 5.1 | 52 |
| 21 | Additive Manufacturing of Epoxy Resins: Materials, Methods, and Latest Trends. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6375-6390. | 1.8 | 49 |
| 22 | Hydrogen bonding interactions, crystallization, and surface hydrophobicity in nanostructured epoxy/block copolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 790-800. | 2.4 | 48 |
| 23 | Effect of graphene oxide concentration on the flexural properties of CFRP at low temperature. <i>Carbon</i> , 2019, 152, 556-564. | 5.4 | 47 |
| 24 | Selective hydrogen bonding and hierarchical nanostructures in poly(hydroxyether of bisphenol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 | 1.8 | 46 |
| 25 | Natural wool/cellulose acetate blends regenerated from the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Carbohydrate Polymers</i> , 2009, 78, 999-1004. | 5.1 | 42 |
| 26 | The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7372-7382. | 5.2 | 40 |
| 27 | Individual dispersion of carbon nanotubes in epoxy via a novel dispersion curing approach using ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11696. | 1.3 | 37 |
| 28 | Radial structure and property relationship in the thermal stabilization of PAN precursor fibres. <i>Polymer Testing</i> , 2017, 59, 203-211. | 2.3 | 37 |
| 29 | Cellulose/polycaprolactone blends regenerated from ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Carbohydrate Polymers</i> , 2012, 90, 575-582. | 5.1 | 34 |
| 30 | Competitive hydrogen bonding and self-assembly in poly(2-vinyl pyridine)- <i>block</i> -poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 <i>Physics</i> , 2009, 47, 1894-1905. | 2.4 | 32 |
| 31 | Property enhancement of CFRP composites with different graphene oxide employment methods at a cryogenic temperature. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 120, 56-63. | 3.8 | 32 |
| 32 | Modelling, fabrication and characterization of graphene/polymer nanocomposites for electromagnetic interference shielding applications. <i>Carbon Trends</i> , 2021, 4, 100047. | 1.4 | 32 |
| 33 | 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. | 1.8 | 31 |
| 34 | A Review on Graphene Polymer Nanocomposites in Harsh Operating Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17106-17129. | 1.8 | 31 |
| 35 | Core-Shell Nanofibers of Polyvinylidene Fluoride-based Nanocomposites as Piezoelectric Nanogenerators. <i>Polymers</i> , 2020, 12, 2344. | 2.0 | 31 |
| 36 | A new route to nanostructured thermosets with block ionomer complexes. <i>Soft Matter</i> , 2012, 8, 688-698. | 1.2 | 30 |

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|----|--|-----|-----------|
| 37 | Advances and future outlook in epoxy/graphene composites for anticorrosive applications. Progress in Organic Coatings, 2022, 162, 106571. | 1.9 | 29 |
| 38 | Microphase separation through competitive hydrogen bonding in self-assembled A-b-B/C diblock copolymer/homopolymer complexes. Journal of Chemical Physics, 2009, 131, 214905. | 1.2 | 28 |
| 39 | Graphene based room temperature flexible nanocomposites from permanently cross-linked networks. Scientific Reports, 2018, 8, 2803. | 1.6 | 28 |
| 40 | A comprehensive review on cellulose, chitin, and starch as fillers in natural rubber biocomposites. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100095. | 1.6 | 28 |
| 41 | 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. | 1.7 | 27 |
| 42 | Dispersing single-walled carbon nanotubes in ionic liquids: a quantitative analysis. RSC Advances, 2013, 3, 20034. | 1.7 | 26 |
| 43 | 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. | 1.2 | 26 |
| 44 | 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. | 1.8 | 26 |
| 45 | The preparation of novel nanofilled polymer composites using poly(L-lactic acid) and protein fibers. European Polymer Journal, 2011, 47, 1279-1283. | 2.6 | 25 |
| 46 | Isolation and characterization of cellulose nanowhiskers from <i>Acacia caesia</i> plant. Journal of Applied Polymer Science, 2021, 138, 50213. | 1.3 | 25 |
| 47 | Graphene as a piezo-resistive coating to enable strain monitoring in glass fiber composites. Composites Science and Technology, 2021, 211, 108842. | 3.8 | 25 |
| 48 | High performance composite from epoxy and glass fibers: Morphology, mechanical, dynamic mechanical, and thermal analysis. Polymer Composites, 2009, 30, 982-992. | 2.3 | 24 |
| 49 | Phase morphology, thermomechanical, and crystallization behavior of uncompatibilized and compatibilized polypropylene/polystyrene blends. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 22 |
| 50 | Graphene oxide thin film structural dielectric capacitors for aviation static electricity harvesting and storage. Composites Part B: Engineering, 2020, 201, 108375. | 5.9 | 22 |
| 51 | Evaluation of polyvinyl alcohol composite membranes containing collagen and bone particles. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 38-45. | 1.5 | 21 |
| 52 | Fabrication and characterization of transparent and biodegradable cellulose/poly (vinyl alcohol) blend films using an ionic liquid. Cellulose, 2013, 20, 2517-2527. | 2.4 | 20 |
| 53 | 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. | 2.0 | 19 |
| 54 | Preparation of microporous carbon materials via in-depth sulfonation and stabilization of polyethylene. Polymer Degradation and Stability, 2016, 134, 272-283. | 2.7 | 19 |

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|----|--|-----|-----------|
| 55 | Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters. <i>Optical Materials</i> , 2017, 73, 695-705. | 1.7 | 19 |
| 56 | Rapid Cross-Linking of Epoxy Thermosets Induced by Solvate Ionic Liquids. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2651-2657. | 2.0 | 19 |
| 57 | Morphology, thermo-mechanical properties and surface hydrophobicity of nanostructured epoxy thermosets modified with PEO-PPO-PEO triblock copolymer. <i>Polymer Testing</i> , 2017, 59, 168-176. | 2.3 | 18 |
| 58 | Nanostructures and thermomechanical properties of epoxy thermosets containing reactive diblock copolymer. <i>Journal of Applied Polymer Science</i> , 2010, 115, 2110-2118. | 1.3 | 17 |
| 59 | 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. | 1.3 | 16 |
| 60 | Microphase separation induced by competitive hydrogen bonding interactions in semicrystalline triblock copolymer/homopolymer complexes. <i>Soft Matter</i> , 2013, 9, 6176. | 1.2 | 16 |
| 61 | Tailoring of interface of polypropylene/polystyrene/carbon nanofibre composites by polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene. <i>Polymer Testing</i> , 2016, 51, 131-141. | 2.3 | 16 |
| 62 | Effect of graphene layers on the thermomechanical behaviour of a NiTi shape memory alloy during the nanoscale phase transition. <i>Scripta Materialia</i> , 2013, 68, 420-423. | 2.6 | 14 |
| 63 | Tailoring mechanical and electrical properties of graphene oxide film for structural dielectric capacitors. <i>Journal of Power Sources</i> , 2021, 482, 229020. | 4.0 | 14 |
| 64 | Micro phase separated epoxy/poly(μ -caprolactone)-block-poly(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (siloxane)-block-poly(ethylene glycol)-block-poly(2,2,2-trifluoroethyl methacrylate) triblock copolymer. <i>Polymer Testing</i> , 2016, 55, 115-122. | 2.3 | 13 |
| 65 | High performance $\langle scp \rangle$ PP/SEBS/CNF $\langle /scp \rangle$ composites: Evaluation of mechanical, thermal degradation, and crystallization properties. <i>Polymer Composites</i> , 2017, 38, 2440-2449. | 2.3 | 13 |
| 66 | Phase morphology, mechanical, dynamic mechanical, crystallization, and thermal degradation properties of PP and PP/PS blends modified with SEBS elastomer. <i>International Journal of Plastics Technology</i> , 2017, 21, 79-95. | 2.9 | 13 |
| 67 | Wet-spinning and carbonization of graphene/PAN-based fibers: Toward improving the properties of carbon fibers. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47932. | 1.3 | 13 |
| 68 | Temperature variations at nano-scale level in phase transformed nanocrystalline NiTi shape memory alloys adjacent to graphene layers. <i>Nanoscale</i> , 2013, 5, 6479. | 2.8 | 12 |
| 69 | Miscibility, UV resistance, thermal degradation, and mechanical properties of PMMA/SAN blends and their composites with MWCNTs. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 12 |
| 70 | 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. | 2.4 | 11 |
| 71 | Effects of dynamic loading on nano-scale depth-recovery and damping property of single crystal CuAlNi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2012, 545, 222-224. | 2.8 | 11 |
| 72 | A facile method to fabricate carbon nanostructures via the self-assembly of polyacrylonitrile/poly(methyl methacrylate- <i>b</i> -polyacrylonitrile) AB/B ϵ^2 type block copolymer/homopolymer blends. <i>RSC Advances</i> , 2016, 6, 55792-55799. | 1.7 | 11 |

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|----|---|-----|-----------|
| 73 | 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, . | 1.3 | 11 |
| 74 | Zinc Oxide PVDF Nano–Composites–Tuning Interfaces toward Enhanced Mechanical Properties and UV Protection. Advanced Engineering Materials, 2017, 19, 1600611. | 1.6 | 11 |
| 75 | Intermolecular hydrogen bonding in developing nanostructured epoxy shape memory thermosets: Effects on morphology, thermo-mechanical properties and surface wetting. Polymer Testing, 2020, 81, 106279. | 2.3 | 11 |
| 76 | Nanofibrillar Micelles and Entrapped Vesicles from Biodegradable Block Copolymer/Polyelectrolyte Complexes in Aqueous Media. Langmuir, 2013, 29, 9240-9248. | 1.6 | 10 |
| 77 | Novel Approach to Trigger Nanostructures in Thermosets Using Competitive Hydrogen-Bonding-Induced Phase Separation (CHIPS). Macromolecules, 2015, 48, 8337-8345. | 2.2 | 10 |
| 78 | Thermally flexible epoxy/cellulose blends mediated by an ionic liquid. RSC Advances, 2015, 5, 52832-52836. | 1.7 | 10 |
| 79 | Flower like micellar assemblies in poly(styrene)-block-poly(4-vinyl pyridine)/poly(acrylic acid) complexes. Materials Letters, 2015, 147, 92-96. | 1.3 | 9 |
| 80 | Large, Mesoporous Carbon Nanoparticles with Tunable Architectures for Energy Storage. ACS Applied Nano Materials, 2019, 2, 1727-1736. | 2.4 | 9 |
| 81 | Accelerated weathering studies of bioepoxy/ionic liquid blends: influence on physical, thermo-mechanical, morphology and surface properties. Materials Research Express, 2020, 7, 025302. | 0.8 | 8 |
| 82 | 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. | 1.9 | 7 |
| 83 | 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. | 2.0 | 7 |
| 84 | Eutectic crystallization and hydrogen bonding interactions in polymer/surfactant blends. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1015-1023. | 2.4 | 5 |
| 85 | Complexation and eutectic crystallization in poly(2-vinyl pyridine)-block-poly(Î¼-caprolactone) and pentadecylphenol mixtures. European Polymer Journal, 2010, 46, 2290-2299. | 2.6 | 5 |
| 86 | Macroradical enables electrical conduction in epoxy thermoset. Polymer, 2021, 230, 124046. | 1.8 | 5 |
| 87 | Magnetic field induced alignment of macroradical epoxy for enhanced electrical properties. Soft Matter, 2022, 18, 5194-5203. | 1.2 | 5 |
| 88 | Introduction to Nanomaterials and Nanocomposites. , 2016, , 1-4. | | 4 |
| 89 | Carbon Nexus at Deakin University: a globally unique carbon fiber and composite research facility in Australia. Reinforced Plastics, 2016, 60, 396-400. | 0.5 | 4 |
| 90 | Biodegradable polymers and green-based antimicrobial packaging materials. , 2022, , 717-733. | | 4 |

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|-----|--|-----|-----------|
| 91 | Toughened PS/LDPE/SEBS/xGnP ternary composites: morphology, mechanical and viscoelastic properties. International Journal of Lightweight Materials and Manufacture, 2019, 2, 64-71. | 1.3 | 3 |
| 92 | Scalable Production and Thermoelectrical Modeling of Infusible Functional Graphene/Epoxy Nanomaterials for Engineering Applications. Industrial & Engineering Chemistry Research, 2022, 61, 5141-5157. | 1.8 | 3 |
| 93 | Dynamical Mechanical Thermal Analysis of Epoxy-/Block-Copolymer Blends. , 2016, , 1-34. | | 2 |
| 94 | Development of a shear forming envelope for carbon fibre non-crimp fabrics. Journal of Industrial Textiles, 0, , 152808372110154. | 1.1 | 1 |
| 95 | Light Scattering of Epoxy/Thermoplastic Blends. , 2017, , 557-582. | | 1 |
| 96 | Water Sorption and Solvent Sorption of Epoxy/Block-Copolymer and Epoxy/Thermoplastic Blends. , 2017, , 1097-1111. | | 1 |
| 97 | Water Sorption and Solvent Sorption of Epoxy/Block copolymer and Epoxy/Thermoplastic Blends. , 2016, , 1-16. | | 1 |
| 98 | Recent Advances in Macro ATR-FTIR Microspectroscopic Technique for High Resolution Surface Characterisation at Australian Synchrotron IR Beamline. , 2018, , . | | 0 |
| 99 | Dynamical Mechanical Thermal Analysis of Epoxy-/Block-Copolymer Blends. , 2016, , 1-34. | | 0 |
| 100 | Dynamic Mechanical Thermal Analysis of Epoxy-/Block-Copolymer Blends. , 2016, , 1-34. | | 0 |
| 101 | Thermal Properties of Epoxy/Block Copolymer Blends. , 2016, , 1-25. | | 0 |
| 102 | Thermal Properties of Epoxy/Block-Copolymer Blends. , 2017, , 1041-1065. | | 0 |
| 103 | Dynamic Mechanical Thermal Analysis of Epoxy/Block-Copolymer Blends. , 2017, , 1007-1040. | | 0 |