# Kuruvilla Joseph

## List of Publications by Citations

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|---|---|---|---|
| 201 papers | 8,147 citations | 41 h-index | 85 g-index |
| 206 ext. papers | 9,010 ext. citations | 4.1 avg, IF | 6.04 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 201 | Effect of chemical treatment on the tensile properties of short sisal fibre-reinforced polyethylene composites. *Polymer*, **1996**, 37, 5139-5149 | 3.9 | 523 |
| 200 | Effect of processing variables on the mechanical properties of sisal-fiber-reinforced polypropylene composites. *Composites Science and Technology*, **1999**, 59, 1625-1640 | 8.6 | 406 |
| 199 | Dynamic mechanical analysis of randomly oriented intimately mixed short banana/sisal hybrid fibre reinforced polyester composites. *Composites Science and Technology*, **2005**, 65, 1077-1087 | 8.6 | 390 |
| 198 | The thermal and crystallisation studies of short sisal fibre reinforced polypropylene composites. *Composites Part A: Applied Science and Manufacturing*, **2003**, 34, 253-266 | 8.4 | 365 |
| 197 | Environmental effects on the degradation behaviour of sisal fibre reinforced polypropylene composites. *Composites Science and Technology*, **2002**, 62, 1357-1372 | 8.6 | 339 |
| 196 | Effect of surface treatments on the electrical properties of low-density polyethylene composites reinforced with short sisal fibers. *Composites Science and Technology*, **1997**, 57, 67-79 | 8.6 | 263 |
| 195 | Effect of fiber surface modification on the mechanical and water absorption characteristics of sisal/polyester composites fabricated by resin transfer molding. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 1777-1784 | 8.4 | 257 |
| 194 | Dynamic mechanical properties of short sisal fibre reinforced polypropylene composites. *Composites Part A: Applied Science and Manufacturing*, **2003**, 34, 275-290 | 8.4 | 241 |
| 193 | Effect of fiber loading and chemical treatments on thermophysical properties of banana fiber/polypropylene commingled composite materials. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1582-1588 | 8.4 | 210 |
| 192 | A comparative study on mechanical properties of sisal-leaf fibre-reinforced polyester composites prepared by resin transfer and compression moulding techniques. *Composites Science and Technology*, **2007**, 67, 453-461 | 8.6 | 198 |
| 191 | Effect of wettability and ageing conditions on the physical and mechanical properties of uniaxially oriented jute-roving-reinforced polyester composites. *Composites Science and Technology*, **2000**, 60, 833-844 | 8.6 | 188 |
| 190 | Theoretical modelling of tensile properties of short sisal fibre-reinforced low-density polyethylene composites. *Journal of Materials Science*, **1997**, 32, 4261-4267 | 4.3 | 183 |
| 189 | Influence of interfacial adhesion on the mechanical properties and fracture behaviour of short sisal fibre reinforced polymer composites. *European Polymer Journal*, **1996**, 32, 1243-1250 | 5.2 | 178 |
| 188 | A REVIEW ON SISAL FIBER REINFORCED POLYMER COMPOSITES. *Revista Brasileira De Engenharia Agricola E Ambiental*, **1999**, 3, 367-379 | 0.9 | 175 |
| 187 | A study of the mechanical properties of randomly oriented short banana and sisal hybrid fiber reinforced polyester composites. *Journal of Applied Polymer Science*, **2005**, 96, 1699-1709 | 2.9 | 168 |
| 186 | The influence of fibre microstructure on fibre breakage and mechanical properties of natural fibre reinforced polypropylene. *Composites Science and Technology*, **2009**, 69, 1847-1853 | 8.6 | 159 |
| 185 | Tensile properties of short sisal fiber-reinforced polyethylene composites. *Journal of Applied Polymer Science*, **1993**, 47, 1731-1739 | 2.9 | 157 |

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| 184 | Mechanical Performance of Short Banana/Sisal Hybrid Fiber Reinforced Polyester Composites. *Journal of Reinforced Plastics and Composites*, **2010**, 29, 12-29 | 2.9 | 129 |
| 183 | Effect of ageing on the physical and mechanical properties of sisal-fiber-reinforced polyethylene composites. *Composites Science and Technology*, **1995**, 53, 99-110 | 8.6 | 112 |
| 182 | Morphology, static and dynamic mechanical properties of in situ microfibrillar composites based on polypropylene/poly (ethylene terephthalate) blends. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 164-175 | 8.4 | 99 |
| 181 | Gas transport through nano and micro composites of natural rubber (NR) and their blends with carboxylated styrene butadiene rubber (XSBR) latex membranes. *Polymer*, **2006**, 47, 858-870 | 3.9 | 90 |
| 180 | Dynamic Mechanical Properties of Short Sisal Fiber Reinforced Low Density Polyethylene Composites. *Journal of Reinforced Plastics and Composites*, **1993**, 12, 139-155 | 2.9 | 89 |
| 179 | Short sisal fiber reinforced polypropylene composites: the role of interface modification on ultimate properties. *Composite Interfaces*, **2002**, 9, 171-205 | 2.3 | 87 |
| 178 | Stress relaxation behavior of organically modified montmorillonite filled natural rubber/nitrile rubber nanocomposites. *Applied Clay Science*, **2014**, 87, 120-128 | 5.2 | 86 |
| 177 | Influence of polarity parameters on the mechanical properties of composites from polypropylene fiber and short banana fiber. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 1380-1387 | 8.4 | 82 |
| 176 | Influence of Short Glass Fiber Addition on the Mechanical Properties of Sisal Reinforced Low Density Polyethylene Composites. *Journal of Composite Materials*, **1997**, 31, 509-527 | 2.7 | 79 |
| 175 | Mechanical properties of phenolic composites reinforced with jute/cotton hybrid fabrics. *Polymer Composites*, **2005**, 26, 1-11 | 3 | 73 |
| 174 | Diffusion and transport through nanocomposites of natural rubber (NR), carboxylated styrene butadiene rubber (XSBR) and their blends. *Journal of Membrane Science*, **2006**, 282, 162-170 | 9.6 | 69 |
| 173 | Electrical properties of short sisal fiber reinforced polyester composites fabricated by resin transfer molding. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 507-511 | 8.4 | 58 |
| 172 | Recent Developments in Crosslinking of Elastomers. *Rubber Chemistry and Technology*, **2005**, 78, 458-488 | 1.7 | 56 |
| 171 | Effect of draw ratio on the microstructure, thermal, tensile and dynamic rheological properties of insitu microfibrillar composites. *European Polymer Journal*, **2009**, 45, 1738-1747 | 5.2 | 55 |
| 170 | Structure and thermo-mechanical properties of CTBN-grafted-GO modified epoxy/DDS composites. *RSC Advances*, **2015**, 5, 61775-61786 | 3.7 | 54 |
| 169 | Dielectric behaviour of PP/jute yarn commingled composites: Effect of fibre content, chemical treatments, temperature and moisture. *Composites Part A: Applied Science and Manufacturing*, **2013**, 47, 12-21 | 8.4 | 54 |
| 168 | Mechanical and water sorption studies of ecofriendly banana fiber-reinforced polyester composites fabricated by RTM. *Journal of Applied Polymer Science*, **2008**, 109, 1547-1555 | 2.9 | 52 |
| 167 | Green Composites from Natural Rubber and Oil Palm Fiber: Physical and Mechanical Properties. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2006**, 55, 925-945 | 3 | 51 |

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| 166 | Degradation Studies of Coir Fiber/Polyester and Glass Fiber/Polyester Composites under Different Conditions. *Journal of Reinforced Plastics and Composites*, **2007**, 26, 1571-1585 | 2.9 | 48 |
| 165 | PVT behavior of thermoplastic poly(styrene-co-acrylonitrile)-modified epoxy systems: relating polymerization-induced viscoelastic phase separation with the cure shrinkage performance. *Journal of Physical Chemistry B*, **2008**, 112, 14793-803 | 3.4 | 47 |
| 164 | Influence of short pineapple fiber on the viscoelastic properties of low-density polyethylene. *Materials Letters*, **1993**, 18, 163-170 | 3.3 | 46 |
| 163 | Simple and Cost-Effective Synthesis of Fluorescent Graphene Quantum Dots from Honey: Application as Stable Security Ink and White-Light Emission. *Particle and Particle Systems Characterization*, **2016**, 33, 70-74 | 3.1 | 43 |
| 162 | Mechanical and Thermal Properties of Bamboo Microfibril Reinforced Polyhydroxybutyrate Biocomposites. *Journal of Polymers and the Environment*, **2009**, 17, 109-114 | 4.5 | 42 |
| 161 | Studies on accelerated sulphur vulcanization of natural rubber using 1-phenyl-2, 4-dithiobiuret/tertiary butyl benzothiazole sulphenamide. *European Polymer Journal*, **2003**, 39, 1451-1460 | 5.2 | 42 |
| 160 | Mechanical, thermal, and viscoelastic response of novel in situ CTBN/POSS/epoxy hybrid composite system. *Polymer Composites*, **2016**, 37, 2109-2120 | 3 | 41 |
| 159 | Novel bio-commingled composites based on jute/polypropylene yarns: Effect of chemical treatments on the mechanical properties. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 219-230 | 8.4 | 41 |
| 158 | Rheological behavior of nanocomposites of natural rubber and carboxylated styrene butadiene rubber latices and their blends. *Journal of Applied Polymer Science*, **2006**, 101, 2355-2362 | 2.9 | 41 |
| 157 | Effect of layering pattern on dynamic mechanical properties of randomly oriented short banana/sisal hybrid fiber‐reinforced polyester composites. *Journal of Applied Polymer Science*, **2005**, 97, 2168-2174 | 2.9 | 41 |
| 156 | Cysteine capped gold nanoparticles for naked eye detection of E. coli bacteria in UTI patients. *Sensing and Bio-Sensing Research*, **2015**, 5, 33-36 | 3.3 | 40 |
| 155 | Thermal stability and ageing properties of sulphur and gamma radiation vulcanized natural rubber (NR) and carboxylated styrene butadiene rubber (XSBR) latices and their blends. *Polymer Degradation and Stability*, **2006**, 91, 1717-1725 | 4.7 | 40 |
| 154 | Mechanical properties of short sisal fiber-reinforced polypropylene composites: Comparison of experimental data with theoretical predictions. *Journal of Applied Polymer Science*, **2003**, 88, 602-611 | 2.9 | 38 |
| 153 | The thermal degradation and dynamic mechanical properties modeling of MWCNT/glass fiber multiscale filler reinforced polypropylene composites. *Composites Science and Technology*, **2019**, 169, 249-259 | 8.6 | 38 |
| 152 | Viscoelastic properties of short-sisal-fiber-filled low-density polyethylene composites: effect of fiber length and orientation. *Materials Letters*, **1992**, 15, 224-228 | 3.3 | 37 |
| 151 | Green Synthesis of Gluten-Stabilized Fluorescent Gold Quantum Clusters: Application As Turn-On Sensing of Human Blood Creatinine. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 4837-4845 | 8.3 | 36 |
| 150 | Dynamic mechanical analysis of novel composites from commingled polypropylene fiber and banana fiber. *Polymer Engineering and Science*, **2010**, 50, 384-395 | 2.3 | 36 |
| 149 | Curing behavior of a novolac-type phenolic resin analyzed by differential scanning calorimetry. *Journal of Applied Polymer Science*, **2003**, 90, 1678-1682 | 2.9 | 36 |

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| 148 | Effect of Adhesion on the Equilibrium Swelling of Short Sisal Fiber Reinforced Natural Rubber Composites. *Rubber Chemistry and Technology*, **1995**, 68, 37-49 | 1.7 | 36 |
| 147 | Molecular transport of aromatic solvents through microcomposites of natural rubber (NR), carboxylated styrene butadiene rubber (XSBR) and their blends. *Composites Science and Technology* , **2007**, 67, 1187-1194 | 8.6 | 34 |
| 146 | In situ microfibrillar blends and composites of polypropylene and poly (ethylene terephthalate): Morphology and thermal properties. *Journal of Polymer Research*, **2011**, 18, 1-11 | 2.7 | 33 |
| 145 | Transport of organic solvents through natural rubber/nitrile rubber/organically modified montmorillonite nanocomposites. *Journal of Materials Science*, **2013**, 48, 5373-5386 | 4.3 | 32 |
| 144 | Effect of chemical treatment on dynamic mechanical properties of sisal fiber-reinforced polyester composites fabricated by resin transfer molding. *Composite Interfaces*, **2008**, 15, 263-279 | 2.3 | 32 |
| 143 | Enhanced visco-elastic and rheological behavior of epoxy composites reinforced with polyimide nanofiber. *Nano Structures Nano Objects*, **2020**, 21, 100421 | 5.6 | 31 |
| 142 | Effect of side-wall functionalisation of multi-walled carbon nanotubes on the thermo-mechanical properties of epoxy composites. *RSC Advances*, **2016**, 6, 23887-23899 | 3.7 | 31 |
| 141 | Dynamic mechanical properties of sisal fiber reinforced polyester composites fabricated by resin transfer molding. *Polymer Composites*, **2009**, 30, 768-775 | 3 | 31 |
| 140 | Innovative materials of this era for toughening the epoxy matrix: A review. *Polymer Composites*, **2018**, 39, E1959-E1986 | 3 | 30 |
| 139 | Morphology development and non isothermal crystallization behaviour of drawn blends and microfibrillar composites from PP and PET. *Polymer Bulletin*, **2008**, 60, 525-532 | 2.4 | 30 |
| 138 | Mechanical, thermophysical, and diffusion properties of TiO2-filled chlorobutyl rubber composites. *Polymer Composites*, **2011**, 32, 1681-1687 | 3 | 27 |
| 137 | Natural fiber hybrid composites: A comparison between compression molding and resin transfer molding. *Polymer Composites*, **2009**, 30, 1417-1425 | 3 | 27 |
| 136 | Dynamic mechanical properties of oil palm microfibril-reinforced natural rubber composites. *Journal of Applied Polymer Science*, **2010**, 117, NA-NA | 2.9 | 27 |
| 135 | High-performance nanocomposites based on arcylonitrile-butadiene rubber with fillers of different particle size: Mechanical and morphological studies. *Polymer Composites*, **2010**, 31, 1515-1524 | 3 | 27 |
| 134 | Effect of blend ratio on the dynamic mechanical and thermal degradation behavior of polymer–polymer composites from low density polyethylene and polyethylene terephthalate. *Iranian Polymer Journal (English Edition)*, **2016**, 25, 373-384 | 2.3 | 26 |
| 133 | Thermal and mechanical properties of chitosan reinforced polyhydroxybutyrate composites. *Journal of Applied Polymer Science*, **2012**, 124, 3357-3362 | 2.9 | 26 |
| 132 | Compósitos de matriz poliéster reforçados por fibras curtas de sisal. *Polimeros*, **1999**, 9, 136-141 | 1.6 | 26 |
| 131 | Chlorobutyl rubber nanocomposites as effective gas and VOC barrier materials. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 864-870 | 8.4 | 24 |

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| 130 | Morphology and Mechanical Properties of Normal Blends and In-Situ Microfibrillar Composites from Low-Density Polyethylene and Poly(ethylene terephthalate). *Polymer-Plastics Technology and Engineering*, **2010**, 49, 442-448 | | 24 |
| 129 | Radio frequency plasma mediated dry functionalization of multiwall carbon nanotube. *Applied Surface Science*, **2015**, 340, 64-71 | 6.7 | 23 |
| 128 | High strength toughened epoxy nanocomposite based on poly(ether sulfone)-grafted multi-walled carbon nanotube. *Polymers for Advanced Technologies*, **2016**, 27, 82-89 | 3.2 | 23 |
| 127 | Thermal and crystallization behavior of cotton–polypropylene commingled composite systems. *Polymer Composites*, **2010**, 31, 1487-1494 | 3 | 23 |
| 126 | Jute Sack Cloth Reinforced Polypropylene Composites: Mechanical and Sorption Studies. *Journal of Reinforced Plastics and Composites*, **1999**, 18, 346-372 | 2.9 | 23 |
| 125 | Graphene Oxide as a Prospective Graft in Polyethylene Glycol for Enhancing the Toughness of Epoxy Nanocomposites. *Polymer Engineering and Science*, **2020**, 60, 773-781 | 2.3 | 23 |
| 124 | Triblock copolymer grafted Graphene oxide as nanofiller for toughening of epoxy resin. *Materials Chemistry and Physics*, **2020**, 248, 122930 | 4.4 | 22 |
| 123 | Thermogravimetric analysis and differential scanning calorimetric studies on nanoclay-filled TPU/PP blends. *Journal of Thermal Analysis and Calorimetry*, **2013**, 112, 1231-1244 | 4.1 | 22 |
| 122 | Melt Rheological Behaviour of Short Sisal Fibre Reinforced Polypropylene Composites. *Journal of Thermoplastic Composite Materials*, **2002**, 15, 89-114 | 1.9 | 22 |
| 121 | Choline-induced selective fluorescence quenching of acetylcholinesterase conjugated Au@BSA clusters. *Biosensors and Bioelectronics*, **2016**, 81, 68-74 | 11.8 | 21 |
| 120 | Effect of blend ratio on the mechanical and sorption behaviour of polymer–polymer microfibrillar composites from low-density polyethylene and polyethylene terephthalate. *Journal of Reinforced Plastics and Composites*, **2012**, 31, 549-562 | 2.9 | 21 |
| 119 | Impact of filler geometry and surface chemistry on the degree of reinforcement and thermal stability of nitrile rubber nanocomposites. *Journal of Polymer Research*, **2011**, 18, 2367-2378 | 2.7 | 21 |
| 118 | Preparation of polypropylene fiber/banana fiber composites by novel commingling method. *Polymer Composites*, **2010**, 31, 816-824 | 3 | 21 |
| 117 | Impact, Tear, and Dielectric Properties of Cotton/Polypropylene Commingled Composites. *Journal of Reinforced Plastics and Composites*, **2010**, 29, 1861-1874 | 2.9 | 20 |
| 116 | Melting and crystallization behaviors of isotactic polypropylene/acrylonitrile–butadiene rubber blends in the presence and absence of compatibilizers and fillers. *Journal of Applied Polymer Science* , **2006**, 102, 2067-2080 | 2.9 | 20 |
| 115 | Sulphur Vulcanisation of Styrene Butadiene Rubber Using New Binary Accelerator Systems. *Journal of Elastomers and Plastics*, **2003**, 35, 29-55 | 1.6 | 20 |
| 114 | Dynamic Mechanical Analysis of in situ Microfibrillar Composites Based on PP and PET. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 455-463 | | 19 |
| 113 | Viscoelastic behaviour of novel commingled biocomposites based on polypropylene/jute yarns. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 893-902 | 8.4 | 18 |

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| 112 | Advances in Polymer Composites: Macro- and Microcomposites State of the Art, New Challenges, and Opportunities **2012**, 1-16 | | 18 |
| 111 | Naked eye detection of infertility using fructose blue--a novel gold nanoparticle based fructose sensor. *Biosensors and Bioelectronics*, **2014**, 54, 171-4 | 11.8 | 17 |
| 110 | Cholesterol aided etching of tomatine gold nanoparticles: a non-enzymatic blood cholesterol monitor. *Biosensors and Bioelectronics*, **2014**, 60, 191-4 | 11.8 | 17 |
| 109 | Cross-linking of carboxyl-terminated nitrile rubber with polyhedral oligomeric silsesquioxane. *Journal of Thermal Analysis and Calorimetry*, **2016**, 123, 1479-1489 | 4.1 | 16 |
| 108 | Thermal, calorimetric and crystallisation behaviour of polypropylene/jute yarn bio-composites fabricated by commingling technique. *Composites Part A: Applied Science and Manufacturing*, **2013**, 48, 110-120 | 8.4 | 16 |
| 107 | Surface-modified sisal fiber-reinforced eco-friendly composites: Mechanical, thermal, and diffusion studies. *Polymer Composites*, **2011**, 32, 131-138 | 3 | 16 |
| 106 | Oil palm microcomposites: Processing and mechanical behavior. *Polymer Engineering and Science*, **2010**, 50, 1853-1863 | 2.3 | 16 |
| 105 | Thermal behavior of chemically treated and untreated sisal fiber reinforced composites fabricated by resin transfer molding. *Composite Interfaces*, **2008**, 15, 629-650 | 2.3 | 16 |
| 104 | Preparation and characterization of nanoclay-filled polyurethane/polypropylene blends. *Polymer Engineering and Science*, **2010**, 50, 1878-1886 | 2.3 | 15 |
| 103 | Improved Bioavailability of Curcumin in Gliadin-Protected Gold Quantum Cluster for Targeted Delivery. *ACS Omega*, **2019**, 4, 14169-14178 | 3.9 | 14 |
| 102 | Epoxy/methyl methacrylate acrylonitrile butadiene styrene (MABS) copolymer blends: reaction-induced viscoelastic phase separation, morphology development and mechanical properties. *New Journal of Chemistry*, **2019**, 43, 9216-9225 | 3.6 | 14 |
| 101 | Graphene oxide as multi-functional initiator and effective molecular reinforcement in PVP/epoxy composites. *Journal of Molecular Structure*, **2021**, 1230, 129873 | 3.4 | 14 |
| 100 | Manipulation of thermo-mechanical, morphological and electrical properties of PP/PET polymer blend using MWCNT as nano compatibilizer: A comprehensive study of hybrid nanocomposites. *Vacuum*, **2018**, 157, 433-441 | 3.7 | 14 |
| 99 | Sustainable Electronic Materials: Reversible Phototuning of Conductance in a Noncovalent Assembly of MWCNT and Bioresource-Derived Photochromic Molecule. *ACS Applied Materials & Interfaces*, **2017**, 9, 1167-1172 | 9.5 | 13 |
| 98 | Nanoclay effect on transport properties of thermoplastic polyurethane/polypropylene (TPU/PP) blends. *Journal of Polymer Research*, **2013**, 20, 1 | 2.7 | 13 |
| 97 | Advances in Polymer Composites: Biocomposites State of the Art, New Challenges, and Opportunities **2013**, 1-10 | | 13 |
| 96 | Melt-mixed composites of multi-walled carbon nanotubes and thermotropic liquid crystalline polymer: Morphology, rheology and mechanical properties. *Composites Science and Technology*, **2017**, 151, 184-192 | 8.6 | 13 |
| 95 | Thermal degradation and ageing behavior of microcomposites of natural rubber, carboxylated styrene butadiene rubber latices, and their blends. *Journal of Applied Polymer Science*, **2007**, 105, 341-351 | 2.9 | 13 |

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| 94 | Studies on double networks in natural rubber vulcanizates. *Journal of Applied Polymer Science*, **2004**, 91, 1068-1076 | 2.9 | 13 |
| 93 | Hydrogen-bond assisted, aggregation-induced emission of digitonin. *RSC Advances*, **2015**, 5, 100176-100183 | 3.7 | 12 |
| 92 | Mechanical Properties and Morphology of Nanoclay-Filled Different TPU/PP Blends. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 871-876 | | 12 |
| 91 | Effect of sequence of nanoclay addition in TPU/PP blends: thermomechanical properties. *Journal of Materials Science*, **2010**, 45, 1078-1085 | 4.3 | 12 |
| 90 | The role of interface modification on the mechanical properties of injection-moulded composites from commingled polypropylene/banana granules. *Composite Interfaces*, **2007**, 14, 849-867 | 2.3 | 12 |
| 89 | Electrospun styrene-butadiene copolymer fibers as potential reinforcement in epoxy composites: Modeling of rheological and visco elastic data. *Composites Part B: Engineering*, **2019**, 160, 384-393 | 10 | 12 |
| 88 | Quinoline appended pillar[5]arene (QPA) as Fe sensor and complex of Fe (FeQPA) as a selective sensor for F, arginine and lysine in the aqueous medium. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 224, 117390 | 4.4 | 12 |
| 87 | A novel green approach for the preparation of high performance nitrile butadiene rubber-pristine graphene nanocomposites. *Composites Part B: Engineering*, **2019**, 175, 107174 | 10 | 11 |
| 86 | Effect of nano clay on the constrained polymer volume of chlorobutyl rubber nanocomposites. *Polymer Composites*, **2015**, 36, 2135-2139 | 3 | 11 |
| 85 | Physical, mechanical, and viscoelastic properties of natural rubber vulcanizates cured with new binary accelerator system. *Journal of Applied Polymer Science*, **2003**, 87, 2193-2203 | 2.9 | 11 |
| 84 | Effect of filler geometry on the diffusion and transport behavior of aromatic solvents and commercial oil through nitrile rubber nanocomposites. *Polymer Composites*, **2012**, 33, 2236-2244 | 3 | 10 |
| 83 | Comparison of Theory with Experimental Data for Nanoclay-Filled TPU/PP Blend. *Industrial & Engineering Chemistry Research*, **2012**, 51, 13379-13392 | 3.9 | 10 |
| 82 | Magnesia induced coagulation of aqueous PZT powder suspensions for direct coagulation casting. *Ceramics International*, **2010**, 36, 2095-2101 | 5.1 | 10 |
| 81 | Dynamic Mechanical and Dielectric Properties of Nanocomposites of Natural Rubber (NR), Carboxylated Styrene Butadiene Rubber (XSBR) Latices and their Blends. *Rubber Chemistry and Technology*, **2007**, 80, 672-689 | 1.7 | 10 |
| 80 | Flame-retardant properties of nanoclay-filled thermoplastic polyurethane/polypropylene nanocomposites. *Journal of Vinyl and Additive Technology*, **2017**, 23, E72-E80 | 2 | 9 |
| 79 | Studies on electrical properties of nanoclay filled thermoplastic polyurethane/polypropylene blends. *Polymer Composites*, **2014**, 35, 1671-1682 | 3 | 9 |
| 78 | Nonisothermal thermophysical evaluation of polypropylene/natural rubber based TPEs: Effect of blend ratio and dynamic vulcanization. *Polymer Engineering and Science*, **2009**, 49, 1332-1339 | 2.3 | 9 |
| 77 | Surface Treatment and Characterization of Natural Fibers: Effects on the Properties of Biocomposites **2013**, 133-177 | | 8 |

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| 76 | Environmental Effects, Biodegradation, and Life Cycle Analysis of Fully Biodegradable Green Composites **2013**, 515-568 | | 8 |
| 75 | Crystallization behavior and spherulite growth rate of isotactic polypropylene in isotactic polypropylene/natural rubber based thermoplastic elastomers. *Journal of Applied Polymer Science*, **2008**, 109, 1714-1721 | 2.9 | 8 |
| 74 | Electromagnetic Interference Shielding Materials for Aerospace Application **2018**, 327-365 | | 8 |
| 73 | Effect of compatibilizer on the morphology development, static and dynamic mechanical properties of polymer-polymer composites from LDPE and PET. *International Journal of Plastics Technology*, **2015**, 19, 84-105 | 2.7 | 7 |
| 72 | Synthesis of self-assembled and porous nano titania-graphene oxide hybrids for toughening the epoxy. *Polymer Composites*, **2020**, 41, 4093-4103 | 3 | 7 |
| 71 | Development of X-ray protective garments from rare earth-modified natural rubber composites. *Journal of Elastomers and Plastics*, **2017**, 49, 527-544 | 1.6 | 7 |
| 70 | Dynamic mechanical properties of cotton/polypropylene commingled composite systems. *Journal of Applied Polymer Science*, **2009**, 114, 2624-2631 | 2.9 | 7 |
| 69 | Gas permeation studies of natural rubber and carboxylated styrene Butadiene rubber latex membranes. *Journal of Applied Polymer Science*, **2005**, 98, 1125-1134 | 2.9 | 7 |
| 68 | Fabrication and Characterization of Toughened Nanocomposites Based on TiO2 Nanowire-Epoxy System. *Polymer Composites*, **2019**, 40, 2629-2638 | 3 | 7 |
| 67 | MoS2: Advanced nanofiller for reinforcing polymer matrix. *Physica E: Low-Dimensional Systems and Nanostructures*, **2021**, 132, 114716 | 3 | 7 |
| 66 | Electrospun ZrO2@carbon nanofiber mats and their epoxy composites as effective EMI shields in Ku band. *Materials Research Bulletin*, **2021**, 144, 111477 | 5.1 | 7 |
| 65 | Green synthesis of a plant-derived protein protected copper quantum cluster for intrauterine device application. *Analyst, The*, **2018**, 143, 3841-3849 | 5 | 6 |
| 64 | Self-assembly of cardanol based supramolecular synthons to photoresponsive nanospheres: light induced size variation at the nanoscale. *RSC Advances*, **2014**, 4, 42747-42750 | 3.7 | 6 |
| 63 | Dynamic mechanical and rheological properties of nitrile rubber nanocomposites based on TiO2, Ca3(PO4)2 and layered silicate. *Journal of Composite Materials*, **2014**, 48, 2325-2339 | 2.7 | 6 |
| 62 | Bionanocomposites **2013**, 361-430 | | 6 |
| 61 | Molecular Transport of Aromatic Solvents through Oil Palm Micro Fiber Filled Natural Rubber Composites: Role of Fiber Content and Interface Adhesion on Transport. *Journal of Adhesion Science and Technology*, **2012**, 26, 271-288 | 2 | 6 |
| 60 | Solvent Uptake and Accelerated Solar Aging Studies of Cotton Polypropylene Commingled Composite Systems. *Polymers and Polymer Composites*, **2010**, 18, 103-112 | 0.8 | 6 |
| 59 | Photoresponse modulation of reduced graphene oxide by surface modification with cardanol derived azobenzene. *New Journal of Chemistry*, **2018**, 42, 18182-18188 | 3.6 | 6 |

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| 58 | Gas Barrier, Rheological and Mechanical Properties of Immiscible Natural Rubber/Acrylonitrile Butadiene Rubber/Organoclay (NR/NBR/Organoclay) Blend Nanocomposites. *Materials*, **2020**, 13, | 3.5 | 5 |
| 57 | Influence of fiber content and chemical modifications on the transport properties of PP/jute commingled biocomposites. *Polymer Composites*, **2018**, 39, E250-E260 | 3 | 5 |
| 56 | Mechanical Properties and Morphology of Nanoclay Filled Different TPU/PP Blend Nanocomposites: Structure - Property Relations. *Journal of Composite Materials*, **2009**, 43, 1915-1925 | 2.7 | 5 |
| 55 | Evaluation of kinetics and transport mechanism of solvents through natural rubber composites containing organically modified gadolinium oxide. *Plastics, Rubber and Composites*, **2016**, 45, 216-223 | 1.5 | 5 |
| 54 | Recent Advances in Boron Nitride Based Hybrid Polymer Nanocomposites. *Macromolecular Materials and Engineering*, **2021**, 306, 2100429 | 3.9 | 5 |
| 53 | An efficient fabrication of polypropylene hybrid nanocomposites using carbon nanotubes and PET fibrils. *Materials Today: Proceedings*, **2020**, 29, 794-800 | 1.4 | 4 |
| 52 | Basic structural and properties relationship of recyclable microfibrillar composite materials from immiscible plastics blends: An introduction **2017**, 1-25 | | 4 |
| 51 | The role of interface modification on thermal degradation and crystallization behavior of composites from commingled polypropylene fiber and banana fiber. *Polymer Composites*, **2009**, 31, NA-NA | 3 | 4 |
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