# Vimal Katiyar

List of Publications by Year
in descending order

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|---|---|---|---|
| 128 papers | 3,738 citations | 109137 35 h-index | 168136 53 g-index |
| 134 all docs | 134 docs citations | 134 times ranked | 3539 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of cellulose nanocrystal polymorphs on mechanical, barrier and thermal properties of poly(lactic acid) based bionanocomposites. RSC Advances, 2015, 5, 60426-60440. | 1.7 | 124 |
| 2 | Thermally recyclable polylactic acid/cellulose nanocrystal films through reactive extrusion process. Polymer, 2016, 87, 268-282. | 1.8 | 115 |
| 3 | Pd(II) adsorption characteristics of glutaraldehyde cross-linked chitosan copolymer resin. International Journal of Biological Macromolecules, 2017, 94, 72-84. | 3.6 | 112 |
| 4 | Effect of graphene content on the properties of poly(lactic acid) nanocomposites. RSC Advances, 2015, 5, 28410-28423. | 1.7 | 106 |
| 5 | Nanoamphiphilic Chitosan Dispersed Poly(lactic acid) Bionanocomposite Films with Improved Thermal, Mechanical, and Gas Barrier Properties. Biomacromolecules, 2016, 17, 2603-2618. | 2.6 | 106 |
| 6 | Poly (3-hydroxybutyrate)/cellulose nanocrystal films for food packaging applications: Barrier and migration studies. Polymer Engineering and Science, 2015, 55, 2388-2395. | 1.5 | 99 |
| 7 | Magnetic Cellulose Nanocrystal Based Anisotropic Polylactic Acid Nanocomposite Films: Influence on Electrical, Magnetic, Thermal, and Mechanical Properties. ACS Applied Materials & Interfaces, 2016, 8, 18393-18409. | 4.0 | 93 |
| 8 | Biopolymer-based nanocomposite films and coatings: recent advances in shelf-life improvement of fruits and vegetables. Critical Reviews in Food Science and Nutrition, 2022, 62, 1912-1935. | 5.4 | 89 |
| 9 | Acid functionalized cellulose nanocrystals and its effect on mechanical, thermal, crystallization and surfaces properties of poly (lactic acid) bionanocomposites films: A comprehensive study. Polymer, 2016, 101, 75-92. | 1.8 | 86 |
| 10 | First Example of a Gold(I)N-Heterocyclic-Carbene-Based Initiator for the Bulk Ring-Opening Polymerization ofL-Lactide. European Journal of Inorganic Chemistry, 2006, 2006, 3724-3730. | 1.0 | 83 |
| 11 | Poly l-lactide-layered double hydroxide nanocomposites via in situ polymerization of l-lactide. Polymer Degradation and Stability, 2010, 95, 2563-2573. | 2.7 | 78 |
| 12 | Reactive Extrusion of Polylactic Acid/Cellulose Nanocrystal Films for Food Packaging Applications: Influence of Filler Type on Thermomechanical, Rheological, and Barrier Properties. Industrial & Engineering Chemistry Research, 2017, 56, 4718-4735. | 1.8 | 76 |
| 13 | Morphology and crystalline characteristics of polylactic acid [PLA]/linear low density polyethylene [LLDPE]/microcrystalline cellulose [MCC] fiber composite. Composites Science and Technology, 2019, 171, 54-61. | 3.8 | 76 |
| 14 | Biodegradable poly (lactic acid)/Cellulose nanocrystals (CNCs) composite microcellular foam: Effect of nanofillers on foam cellular morphology, thermal and wettability behavior. International Journal of Biological Macromolecules, 2018, 106, 433-446. | 3.6 | 69 |
| 15 | Cellulose Functionalized High Molecular Weight Stereocomplex Polylactic Acid Biocomposite Films with Improved Gas Barrier, Thermomechanical Properties. ACS Sustainable Chemistry and Engineering, 2017, 5, 6835-6844. | 3.2 | 67 |
| 16 | Ni(II) and Cu(II) complexes of phenoxy-ketimine ligands: Synthesis, structures and their utility in bulk ring-opening polymerization (ROP) of l-lactide. Polyhedron, 2007, 26, 4033-4044. | 1.0 | 64 |
| 17 | Melt processing of poly(<scp>L</scp>â€lactic acid) in the presence of organomodified anionic or cationic clays. Journal of Applied Polymer Science, 2011, 122, 112-125. | 1.3 | 64 |
| 18 | Plasticizing effect of coconut oil on morphological, mechanical, thermal, rheological, barrier, and optical properties of poly(lactic acid): A promising candidate for food packaging. Journal of Applied Polymer Science, 2017, 134, 45390. | 1.3 | 62 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Biodegradation of modified Poly(lactic acid) based biocomposite films under thermophilic composting conditions. Polymer Testing, 2019, 76, 522-536. | 2.3 | 59 |
| 20 | Thermal degradation kinetics of sucrose palmitate reinforced poly(lactic acid) biocomposites. International Journal of Biological Macromolecules, 2014, 65, 275-283. | 3.6 | 55 |
| 21 | Polyhydroxyalkanoates (PHA)-Cellulose Based Nanobiocomposites for Food Packaging Applications. ACS Symposium Series, 2014, , 275-314. | 0.5 | 54 |
| 22 | Multifunctional Nanohydroxyapatite-Promoted Toughened High-Molecular-Weight Stereocomplex Poly(lactic acid)-Based Bionanocomposite for Both 3D-Printed Orthopedic Implants and High-Temperature Engineering Applications. ACS Omega, 2017, 2, 4039-4052. | 1.6 | 54 |
| 23 | Effect of Dicumyl Peroxide on a Poly(lactic acid) (PLA)/Poly(butylene succinate) (PBS)/Functionalized Chitosan-Based Nanobiocomposite for Packaging: A Reactive Extrusion Study. ACS Omega, 2018, 3, 13298-13312. | 1.6 | 50 |
| 24 | Fabrication of cellulose nanocrystal supported stable Fe(0) nanoparticles: a sustainable catalyst for dye reduction, organic conversion and chemo-magnetic propulsion. Cellulose, 2015, 22, 3755-3771. | 2.4 | 48 |
| 25 | Utilization of waste polyvinyl chloride (PVC) for ultrafiltration membrane fabrication and its characterization. Journal of Environmental Chemical Engineering, 2020, 8, 103650. | 3.3 | 48 |
| 26 | Thermal degradation kinetics of polylactic acid/acid fabricated cellulose nanocrystal based bionanocomposites. International Journal of Biological Macromolecules, 2017, 104, 827-836. | 3.6 | 47 |
| 27 | End-of-life evaluation and biodegradation of Poly(lactic acid) (PLA)/Polycaprolactone (PCL)/Microcrystalline cellulose (MCC) polyblends under composting conditions. Chemosphere, 2020, 247, 125875. | 4.2 | 47 |
| 28 | Effects of Amphiphilic Chitosan on Stereocomplexation and Properties of Poly(lactic acid) Nano-biocomposite. Scientific Reports, 2018, 8, 4351. | 1.6 | 46 |
| 29 | Biodegradation and characterization study of compostable PLA bioplastic containing algae biomass as potential degradation accelerator. Environmental Challenges, 2021, 3, 100067. | 2.0 | 45 |
| 30 | Nanosilk-Grafted Poly(lactic acid) Films: Influence of Cross-Linking on Rheology and Thermal Stability. ACS Omega, 2017, 2, 7071-7084. | 1.6 | 44 |
| 31 | Ring-opening polymerization of L-lactide using N-heterocyclic molecules: mechanistic, kinetics and DFT studies. Polymer Chemistry, 2010, 1, 1491. | 1.9 | 43 |
| 32 | Influence of Nontoxic Magnetic Cellulose Nanofibers on Chitosan Based Edible Nanocoating: A Candidate for Improved Mechanical, Thermal, Optical, and Texture Properties. Journal of Agricultural and Food Chemistry, 2019, 67, 4289-4299. | 2.4 | 43 |
| 33 | Thermal degradation behaviour and crystallization kinetics of poly (lactic acid) and cellulose nanocrystals (CNC) based microcellular composite foams. International Journal of Biological Macromolecules, 2018, 118, 1518-1531. | 3.6 | 42 |
| 34 | Microcrystalline cellulose, polylactic acid and polypropylene biocomposites and its morphological, mechanical, thermal and rheological properties. Composites Part B: Engineering, 2020, 184, 107717. | 5.9 | 41 |
| 35 | Curcumin doped functionalized cellulose nanofibers based edible chitosan coating on kiwifruits. International Journal of Biological Macromolecules, 2021, 184, 936-945. | 3.6 | 41 |
| 36 | Hydrolytic degradation behaviour of sucrose palmitate reinforced poly(lactic acid) nanocomposites. International Journal of Biological Macromolecules, 2016, 89, 70-80. | 3.6 | 39 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar (Livistona) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 4.2 | 37 |
| 38 | Thermal degradation behaviour of nanoamphiphilic chitosan dispersed poly (lactic acid) bionanocomposite films. International Journal of Biological Macromolecules, 2017, 95, 1267-1279. | 3.6 | 34 |
| 39 | <scp>PLA</scp>/functionalizedâ€gum arabic based bionanocomposite films for high gas barrier applications. Journal of Applied Polymer Science, 2016, 133, . | 1.3 | 33 |
| 40 | Investigating the properties of poly (lactic acid)/exfoliated graphene based nanocomposites fabricated by versatile coating approach. International Journal of Biological Macromolecules, 2018, 113, 1080-1091. | 3.6 | 33 |
| 41 | Microwave assisted synthesis of biodiesel from soybean oil: Effect of poly (lactic acid)-oligomer on cold flow properties, IC engine performance and emission characteristics. Fuel, 2016, 170, 107-114. | 3.4 | 32 |
| 42 | Silk nanocrystals stabilized melt extruded poly (lactic acid) nanocomposite films: Effect of recycling on thermal degradation kinetics and optimization studies. Thermochimica Acta, 2016, 643, 41-52. | 1.2 | 31 |
| 43 | Effect of cellulose nanocrystals derived from Dunaliella tertiolecta marine green algae residue on crystallization behaviour of poly(lactic acid). Carbohydrate Polymers, 2021, 261, 117881. | 5.1 | 31 |
| 44 | Fabrication and characterization of sucrose palmitate reinforced poly(lactic acid) bionanocomposite films. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 30 |
| 45 | Cellulose Nanocrystal Templated Graphene Nanoscrolls for High Performance Supercapacitors and Hydrogen Storage: An Experimental and Molecular Simulation Study. Scientific Reports, 2018, 8, 3886. | 1.6 | 30 |
| 46 | Recycling of poly (lactic acid)/silk based bionanocomposites films and its influence on thermal stability, crystallization kinetics, solution and melt rheology. International Journal of Biological Macromolecules, 2017, 101, 580-594. | 3.6 | 29 |
| 47 | Influence of graphene on thermal degradation and crystallization kinetics behaviour of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.2 | 28 |
| 48 | Silk nanodisc based edible chitosan nanocomposite coating for fresh produces: A candidate with superior thermal, hydrophobic, optical, mechanical and food properties. Food Chemistry, 2021, 360, 130048. | 4.2 | 28 |
| 49 | Cellulose Nanocrystals: A Potential Nanofiller for Food Packaging Applications. ACS Symposium Series, 2014, , 197-239. | 0.5 | 27 |
| 50 | Effect of silk nanoâ€disc dispersion on mechanical, thermal, and barrier properties of poly(lactic acid) based bionanocomposites. Journal of Applied Polymer Science, 2018, 135, 46671. | 1.3 | 27 |
| 51 | Self-propelled cellulose nanocrystal based catalytic nanomotors for targeted hyperthermia and pollutant remediation applications. International Journal of Biological Macromolecules, 2020, 158, 1020-1036. | 3.6 | 27 |
| 52 | Demonstrating an ideal compostable plastic using biodegradability kinetics of poly(lactic acid) (PLA) based green biocomposite films under aerobic composting conditions. Environmental Challenges, 2021, 3, 100030. | 2.0 | 27 |
| 53 | Facile dispersion of exfoliated graphene/<scp>PLA</scp> nanocomposites via in situ polycondensation with a melt extrusion process and its rheological studies. Journal of Applied Polymer Science, 2018, 135, 46476. | 1.3 | 26 |
| 54 | Biocomposites of poly(lactic acid) and lactic acid oligomerâ€grafted bacterial cellulose: It's preparation and characterization. Journal of Applied Polymer Science, 2019, 136, 47903. | 1.3 | 25 |

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|---|---|---|---|
| 55 | Effect of microcrystalline cellulose [MCC] fibres on the morphological and crystalline behaviour of high density polyethylene [HDPE]/polylactic acid [PLA] blends. Composites Science and Technology, 2020, 187, 107941. | 3.8 | 25 |
| 56 | Silk nanoâ€discs: A natural material for cancer therapy. Biopolymers, 2018, 109, e23231. | 1.2 | 24 |
| 57 | Toughened PLA-b-PCL-b-PLA triblock copolymer based biomaterials: effect of self-assembled nanostructure and stereocomplexation on the mechanical properties. Polymer Chemistry, 2021, 12, 3806-3824. | 1.9 | 22 |
| 58 | Chitosan-Based Antimicrobial Coating for Improving Postharvest Shelf Life of Pineapple. Coatings, 2021, 11, 1366. | 1.2 | 22 |
| 59 | Fabrication of Cellulose Nanocrystals from Agricultural Compost. Compost Science and Utilization, 2015, 23, 104-116. | 1.2 | 21 |
| 60 | Biopolymer (gum arabic) incorporation in waste polyvinylchloride membrane for the enhancement of hydrophilicity and natural organic matter removal in water. Journal of Water Process Engineering, 2020, 38, 101569. | 2.6 | 21 |
| 61 | Environmentâ€friendly synthesis of sustainable chitosanâ€based nonisocyanate polyurethane: A biobased polymeric film. Journal of Applied Polymer Science, 2020, 137, 49050. | 1.3 | 21 |
| 62 | Biodegradable kinetics and behavior of bio-based polyblends under simulated aerobic composting conditions. Journal of Environmental Management, 2020, 261, 110211. | 3.8 | 20 |
| 63 | Development of antioxidant-rich edible active films and coatings incorporated with de-oiled ethanolic green algae extract: a candidate for prolonging the shelf life of fresh produce. RSC Advances, 2022, 12, 13295-13313. | 1.7 | 20 |
| 64 | Melt processing of biodegradable poly(lactic acid)/functionalized chitosan nanocomposite films: mechanical modeling with improved oxygen barrier and thermal properties. Journal of Polymer Research, 2017, 24, 1. | 1.2 | 19 |
| 65 | Lactic acid oligomer (OLLA) grafted gum arabic based green adhesive for structural applications. International Journal of Biological Macromolecules, 2018, 120, 711-720. | 3.6 | 19 |
| 66 | Exfoliated graphene-dispersed poly (lactic acid)-based nanocomposite sensors for ethanol detection. Polymer Bulletin, 2019, 76, 2367-2386. | 1.7 | 19 |
| 67 | Structural, mechanical, and gas barrier properties of poly(ethylene terephthalate) nanohybrid using nanotalc. Journal of Applied Polymer Science, 2020, 137, 48607. | 1.3 | 19 |
| 68 | Sustainable Approach for Mechanical Recycling of Poly(lactic acid)/Cellulose Nanocrystal Films: Investigations on Structureâ€“Property Relationship and Underlying Mechanism. Industrial & Engineering Chemistry Research, 2018, 57, 14493-14508. | 1.8 | 18 |
| 69 | Crystallization kinetics, morphology, and hydrolytic degradation of novel bioâ€based poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 1<br>46590. | 1.3 | 17 |
| 70 | Generalized kinetics for thermal degradation and melt rheology for poly (lactic acid)/poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br>Biological Macromolecules, 2019, 141, 831-842. | 3.6 | 17 |
| 71 | Effect of Block Length and Stereocomplexation on the Thermally Processable Poly(Îµ-caprolactone) and Poly(Lactic acid) Block Copolymers for Biomedical Applications. ACS Applied Polymer Materials, 2019, 1, 3354-3365. | 2.0 | 17 |
| 72 | Tailor-made ultra-crystalline, high molecular weight poly(Îµ-caprolactone) films with improved oxygen gas barrier and optical properties: a facile and scalable approach. International Journal of Biological Macromolecules, 2019, 124, 1040-1052. | 3.6 | 17 |

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|---|---|---|---|
| 73 | Nanochitosan functionalized hydrophobic starch/guar gum biocomposite for edible coating application with improved optical, thermal, mechanical, and surface property. International Journal of Biological Macromolecules, 2022, 211, 116-127. | 3.6 | 17 |
| 74 | Construction of integrated system for the treatment of Acid orange 7 dye from wastewater: Optimization and growth kinetic study. Bioresource Technology, 2021, 337, 125478. | 4.8 | 16 |
| 75 | High molecular weight poly (<scp>L</scp>â€lactic acid) clay nanocomposites via solidâ€state polymerization. Polymer Composites, 2011, 32, 497-509. | 2.3 | 15 |
| 76 | Accelerated crystallization of poly(l-lactic acid) by silk fibroin nanodisc. Polymer Journal, 2019, 51, 1173-1180. | 1.3 | 15 |
| 77 | In situ synthesis of high molecular weight poly(<scp>L</scp>â€lactic acid) clay nanocomposites. Polymer Engineering and Science, 2011, 51, 2066-2077. | 1.5 | 14 |
| 78 | Biodegradation of biopolymeric composites and blends under different environmental conditions: Approach towards end-of-life panacea for crop sustainability. Bioresource Technology Reports, 2021, 15, 100705. | 1.5 | 14 |
| 79 | Solid state polymerization of poly(<scp>L</scp>â€lactide): Multipleâ€fold increase in molecular weight via an efficient catalyst system. Polymer Engineering and Science, 2011, 51, 2078-2084. | 1.5 | 13 |
| 80 | Non-isothermal crystallization kinetics of sucrose palmitate reinforced poly(lactic acid) bionanocomposites. Polymer Bulletin, 2016, 73, 21-38. | 1.7 | 13 |
| 81 | Investigations on rheological and mechanical behavior of poly(3â€Hydroxybutyrate)/cellulose nanocrystal based nanobiocomposites. Polymer Composites, 2017, 38, E392. | 2.3 | 13 |
| 82 | Chemomechanical, morphological, and rheological studies of chitosanâ€graftâ€lactic acid oligomer reinforced poly(lactic acid) bionanocomposite films. Journal of Applied Polymer Science, 2018, 135, 45546. | 1.3 | 13 |
| 83 | Structural Evolution in Isothermal Crystallization Process of Poly(L-lactic acid) Enhanced by Silk Fibroin Nano-Disc. Materials, 2019, 12, 1872. | 1.3 | 13 |
| 84 | Sustainable Nanostructured Materials in Food Packaging. , 2019, , 171-213. | | 13 |
| 85 | Blown films fabrication of poly lactic acid based biocomposites: Thermomechanical and migration studies. Materials Today Communications, 2020, 22, 100737. | 0.9 | 13 |
| 86 | Curcumin loaded iron functionalized biopolymeric nanofibre reinforced edible nanocoatings for improved shelf life of cut pineapples. Food Packaging and Shelf Life, 2021, 28, 100658. | 3.3 | 13 |
| 87 | Potency of nanolay on structural, mechanical and gas barrier properties of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 | 1.2 | 12 |
| 88 | Effect of Waste Green Algal Biomass Extract Incorporated Chitosan-Based Edible Coating on the Shelf Life and Quality Attributes of Tomato. ACS Food Science & Technology, 2022, 2, 1151-1165. | 1.3 | 12 |
| 89 | Theoretical and analyzed data related to thermal degradation kinetics of poly ( L -lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1<br>2017, 10, 304-311. | 0.5 | 11 |
| 90 | Non-isothermal degradation kinetics of PLA-functionalized gum (fG) biocomposite with dicumyl peroxide (DCP). Journal of Thermal Analysis and Calorimetry, 2019, 138, 195-210. | 2.0 | 11 |

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| 91 | Poly(lactic acid)/modified gum arabic based bionanocomposite films: Thermal degradation kinetics. Polymer Engineering and Science, 2017, 57, 1193-1206. | 1.5 | 10 |
| 92 | Lamellae Assembly in Dendritic Spherulites of Poly(l-lactic Acid) Crystallized with Poly(p-Vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 | 2.0 | 10 |
| 93 | Bamboo-flour-filled cost-effective poly(Îµ-caprolactone) biocomposites: a potential contender for flexible cryo-packaging applications. Materials Advances, 2021, 2, 280-291. | 2.6 | 10 |
| 94 | Functionalized poly(lactic acid) based nano-fabric for anti-viral applications. RSC Advances, 2021, 11, 32884-32897. | 1.7 | 10 |
| 95 | Chitosan from Muga silkworms (Antheraea assamensis) and its influence on thermal degradation behavior of poly(lactic acid) based biocomposite films. Journal of Applied Polymer Science, 2016, 133, . | 1.3 | 9 |
| 96 | Resorbable polymers in bone repair and regeneration. , 2019, , 87-125. | | 9 |
| 97 | Kinetic modelling of thermal degradation and non-isothermal crystallization of silk nano-discs reinforced poly (lactic acid) bionanocomposites. Polymer Bulletin, 2019, 76, 1349-1382. | 1.7 | 8 |
| 98 | Silk and Wool Protein Microparticle-Reinforced Crystalline Polylactic Acid Biocomposites with Improved Cell Interaction for Targeted Biomedical Applications. ACS Applied Polymer Materials, 2020, 2, 4739-4751. | 2.0 | 8 |
| 99 | Utilization of microalgae residue and isolated cellulose nanocrystals: A study on crystallization kinetics of poly(É›-caprolactone) bio-composites. International Journal of Biological Macromolecules, 2021, 191, 521-530. | 3.6 | 8 |
| 100 | Designing of Poly(l-lactide)â€“Nicotine Conjugates: Mechanistic and Kinetic Studies and Thermal Release Behavior of Nicotine. ACS Omega, 2017, 2, 6131-6142. | 1.6 | 7 |
| 101 | Applicability of Fe-CNC/GR/PLA composite as potential sensor for biomolecules. Journal of Materials Science: Materials in Electronics, 2020, 31, 5984-5999. | 1.1 | 7 |
| 102 | Ion transfer channel network formed by flower and rod shape crystals of hair hydrolysate in poly(vinyl alcohol) matrix and its application as anion exchange membrane in fuel cells. Journal of Colloid and Interface Science, 2021, 587, 214-228. | 5.0 | 7 |
| 103 | Study of the Thermal, Mechanical and Melt Rheological Properties of Rice Straw Filled Poly (Butylene) Tj ETQq1 1 0.784314 rgBT /Ove<br>Environment, 2021, 29, 1477-1488. | 2.4 | 7 |
| 104 | A comprehensive singleâ€particle model for solidâ€state polymerization of poly(<scp>L</scp>â€lactic acid). Journal of Applied Polymer Science, 2011, 122, 2966-2980. | 1.3 | 6 |
| 105 | Feasibility study on a mini autonomous biosensor based on microbial fuel cell for monitoring hexavalent chromium in wastewater. International Journal of Energy Research, 2021, 45, 6293-6302. | 2.2 | 5 |
| 106 | Improvisation of polylactic acid (PLA)/exfoliated graphene (GR) nanocomposite for detection of metal ions (Cu2+). Composites Science and Technology, 2021, 213, 108877. | 3.8 | 5 |
| 107 | Polymers from Carbon Dioxideâ€”A Route Towards a Sustainable Future. Materials Horizons, 2020, , 35-49. | 0.3 | 5 |
| 108 | Cellulose nanocrystal/clay based macroion nanogel as support for stable platinum catalyst for electrochemical oxidation of methanol in alkaline medium. Applied Clay Science, 2019, 182, 105277. | 2.6 | 4 |

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|---|---|---|---|
| 109 | Poly(lactic acid)/modified chitosanâ€based microcellular foams: Thermal and crystallization behavior with wettability and porosimetric investigations. Journal of Applied Polymer Science, 2019, 136, 47236. | 1.3 | 4 |
| 110 | Green Composites Based on Aliphatic and Aromatic Polyester: Opportunities and Application. Materials Horizons, 2019, , 249-275. | 0.3 | 4 |
| 111 | Supramolecular organization of Cytochrome-C into quantum-dot decorated macromolecular network under pH and thermal stress. International Journal of Biological Macromolecules, 2021, 193, 1623-1634. | 3.6 | 4 |
| 112 | Prodigiosin-Loaded Poly(lactic acid) to Combat the Biofilm-Associated Infections. ACS Applied Bio Materials, 2022, , . | 2.3 | 4 |
| 113 | Silk nanocrystal (SNC) reinforced poly (lactic acid) based microcellular foam: Impact on porous structure, crystallinity, thermomechanical and surface property. Materials Today Communications, 2021, 27, 102258. | 0.9 | 3 |
| 114 | Effect of dicumyl peroxide on biodegradable poly(lactic acid)/functionalized gum arabic based films. Journal of Applied Polymer Science, 2021, 138, 51341. | 1.3 | 3 |
| 115 | Synthesis Strategies for Biomedical Grade Polymers. Materials Horizons, 2020, , 1-20. | 0.3 | 3 |
| 116 | Bioaugmented polyaniline decorated polylactic acid nanofiber electrode by electrospinning technique for real wastewaterâ€fed <scp>MFC</scp> application. International Journal of Energy Research, 2022, 46, 3588-3601. | 2.2 | 3 |
| 117 | Fabrication and characterization of clay nanoscrolls and stable zerovalent iron using montmorillonite. Applied Clay Science, 2020, 193, 105670. | 2.6 | 2 |
| 118 | Bioprospecting of cassava fibrous waste as a precursor for stereospecific lactic acid production: inhibition insights for value addition and sustainable utilization. Biomass Conversion and Biorefinery, 2023, 13, 2255-2265. | 2.9 | 2 |
| 119 | Biodegradable Nanocomposite Foams: Processing, Structure, and Properties. Materials Horizons, 2020, , 271-288. | 0.3 | 2 |
| 120 | DSC and SWAXS Studies on the Effects of Silk Nanocrystals on Crystallization of Poly(l-Lactic Acid). Materials Horizons, 2020, , 321-339. | 0.3 | 2 |
| 121 | Fabrication of Stimuli-Responsive Polymers and their Composites: Candidates for Resorbable Sutures. Materials Horizons, 2020, , 121-144. | 0.3 | 2 |
| 122 | Valorization of a CO<sub>2</sub>â€Derived Lactone by Acyclic Diene Metathesis Polymerization. ChemistrySelect, 2021, 6, 13947-13954. | 0.7 | 2 |
| 123 | Effects of chain microstructure on the thermal, mechanical and crystallization behaviors of poly(îµ-caprolactone-co-lactide) copolymers: Processable biomaterials with tunable properties. Materials Today Communications, 2022, 33, 104040. | 0.9 | 2 |
| 124 | Polylactic Acid Based Hydrogels and Its Renewable Characters: Tissue Engineering Applications. Polymers and Polymeric Composites, 2018, , 1-24. | 0.6 | 1 |
| 125 | Starch-Based Nanostructured Materials in Edible Food Packaging. Materials Horizons, 2021, , 139-164. | 0.3 | 1 |
| 126 | Reversible and biocompatible AuNP-decorated [Zn2+]:[Insulin] condensed assembly for potential therapeutic applications. European Journal of Pharmaceutical Sciences, 2022, 173, 106168. | 1.9 | 1 |

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|---|---|---|---|
| 127 | Bio-based Polymeric Conductive Materials for Advanced Applications. Materials Horizons, 2019, , 397-410. | 0.3 | 0 |
| 128 | Mimicking Smart Textile by Fabricating Stereocomplex Poly(Lactic Acid) Nanocomposite Fibers. Materials Horizons, 2020, , 341-362. | 0.3 | 0 |