

Lih-Sheng Turng

List of Publications by Year in descending order

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216
papers

10,278
citations

28274

55
h-index

46799

89
g-index

221
all docs

221
docs citations

221
times ranked

10715
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Highly Stretchable and Biocompatible Strain Sensors Based on Mussel-Inspired Super-Adhesive Self-Healing Hydrogels for Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20897-20909. | 8.0 | 398 |
| 2 | Biocompatible, self-healing, highly stretchable polyacrylic acid/reduced graphene oxide nanocomposite hydrogel sensors via mussel-inspired chemistry. <i>Carbon</i> , 2018, 136, 63-72. | 10.3 | 282 |
| 3 | Highly compressible ultra-light anisotropic cellulose/graphene aerogel fabricated by bidirectional freeze drying for selective oil absorption. <i>Carbon</i> , 2018, 132, 199-209. | 10.3 | 278 |
| 4 | Mussel-inspired electroactive chitosan/graphene oxide composite hydrogel with rapid self-healing and recovery behavior for tissue engineering. <i>Carbon</i> , 2017, 125, 557-570. | 10.3 | 253 |
| 5 | Characterization of thermoplastic polyurethane/polylactic acid (TPU/PLA) tissue engineering scaffolds fabricated by microcellular injection molding. <i>Materials Science and Engineering C</i> , 2013, 33, 4767-4776. | 7.3 | 235 |
| 6 | High-performance flexible triboelectric nanogenerator based on porous aerogels and electrospun nanofibers for energy harvesting and sensitive self-powered sensing. <i>Nano Energy</i> , 2018, 48, 327-336. | 16.0 | 205 |
| 7 | Highly transparent, stretchable, and rapid self-healing polyvinyl alcohol/cellulose nanofibril hydrogel sensors for sensitive pressure sensing and human motion detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 159-167. | 7.8 | 199 |
| 8 | Fabrication of scaffolds in tissue engineering: A review. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 107-119. | 4.3 | 183 |
| 9 | Highly Efficient Removal of Methylene Blue Dye from an Aqueous Solution Using Cellulose Acetate Nanofibrous Membranes Modified by Polydopamine. <i>ACS Omega</i> , 2020, 5, 5389-5400. | 3.5 | 170 |
| 10 | Crystalline Morphology of Electrospun Poly(μ -caprolactone) (PCL) Nanofibers. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4939-4949. | 3.7 | 153 |
| 11 | A review of current developments in process and quality control for injection molding. <i>Advances in Polymer Technology</i> , 2005, 24, 165-182. | 1.7 | 152 |
| 12 | Effects of annealing time and temperature on the crystallinity and heat resistance behavior of injection-molded poly(lactic acid). <i>Polymer Engineering and Science</i> , 2013, 53, 580-588. | 3.1 | 152 |
| 13 | Processing and characterization of solid and microcellular poly(lactic acid) injection-molded poly(lactic acid) Part B: Engineering, 2013, 51, 79-91. | 12.0 | 142 |
| 14 | Incorporation of poly(ethylene glycol) grafted cellulose nanocrystals in poly(lactic acid) electrospun nanocomposite fibers as potential scaffolds for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2015, 49, 463-471. | 7.3 | 137 |
| 15 | The surface grafting of graphene oxide with poly(ethylene glycol) as a reinforcement for poly(lactic acid) injection-molded poly(lactic acid) Part B: Engineering, 2016, 53, 403-413. | 3.1 | 136 |
| 16 | Microstructure and mechanical properties of microcellular injection molded polyamide-6 nanocomposites. <i>Polymer</i> , 2005, 46, 7273-7292. | 3.8 | 133 |
| 17 | Shish-Kebab-Structured Poly(μ -Caprolactone) Nanofibers Hierarchically Decorated with Chitosan-Poly(μ -Caprolactone) Copolymers for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6955-6965. | 8.0 | 126 |
| 18 | Electrospinning thermoplastic polyurethane/graphene oxide scaffolds for small diameter vascular graft applications. <i>Materials Science and Engineering C</i> , 2015, 49, 40-50. | 7.3 | 122 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Electrospun polycaprolactone/gelatin composites with enhanced cell-matrix interactions as blood vessel endothelial layer scaffolds. <i>Materials Science and Engineering C</i> , 2017, 71, 901-908. | 7.3 | 119 |
| 20 | Morphology and Properties of Injection Molded Solid and Microcellular Polylactic Acid/Polyhydroxybutyrate-Valerate (PLA/PHBV) Blends. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2569-2581. | 3.7 | 118 |
| 21 | Magnetically driven superhydrophobic silica sponge decorated with hierarchical cobalt nanoparticles for selective oil absorption and oil/water separation. <i>Chemical Engineering Journal</i> , 2018, 337, 541-551. | 12.7 | 112 |
| 22 | Poly(μ -caprolactone) (PCL)/cellulose nano-crystal (CNC) nanocomposites and foams. <i>Cellulose</i> , 2014, 21, 2727-2741. | 4.9 | 107 |
| 23 | The morphology, properties, and shape memory behavior of polylactic acid/thermoplastic polyurethane blends. <i>Polymer Engineering and Science</i> , 2015, 55, 70-80. | 3.1 | 106 |
| 24 | Quantitative study of shrinkage and warpage behavior for microcellular and conventional injection molding. <i>Polymer Engineering and Science</i> , 2005, 45, 1408-1418. | 3.1 | 105 |
| 25 | Study of injection molded microcellular polyamide-6 nanocomposites. <i>Polymer Engineering and Science</i> , 2004, 44, 673-686. | 3.1 | 104 |
| 26 | Triboelectric Nanogenerators Made of Porous Polyamide Nanofiber Mats and Polyimide Aerogel Film: Output Optimization and Performance in Circuits. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30596-30606. | 8.0 | 103 |
| 27 | Microcellular injection-molding of polylactide with chain-extender. <i>Materials Science and Engineering C</i> , 2009, 29, 1258-1265. | 7.3 | 100 |
| 28 | A novel method of producing lightweight microcellular injection molded parts with improved ductility and toughness. <i>Polymer</i> , 2015, 56, 102-110. | 3.8 | 100 |
| 29 | In-situ fibrillated polytetrafluoroethylene (PTFE) in thermoplastic polyurethane (TPU) via melt blending: Effect on rheological behavior, mechanical properties, and microcellular foamability. <i>Polymer</i> , 2018, 134, 263-274. | 3.8 | 98 |
| 30 | Dual super-amphiphilic modified cellulose acetate nanofiber membranes with highly efficient oil/water separation and excellent antifouling properties. <i>Journal of Hazardous Materials</i> , 2020, 385, 121582. | 12.4 | 96 |
| 31 | Strong, Ductile Magnesium-Zinc Nanocomposites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 3038-3045. | 2.2 | 93 |
| 32 | Artificial small-diameter blood vessels: materials, fabrication, surface modification, mechanical properties, and bioactive functionalities. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1801-1822. | 5.8 | 90 |
| 33 | Processing and characterization of microcellular PHBV/PBAT blends. <i>Polymer Engineering and Science</i> , 2010, 50, 1440-1448. | 3.1 | 89 |
| 34 | Biocompatible, degradable thermoplastic polyurethane based on polycaprolactone-block-polytetrahydrofuran-block-polycaprolactone copolymers for soft tissue engineering. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4137-4151. | 5.8 | 89 |
| 35 | A novel method for improving the surface quality of microcellular injection molded parts. <i>Polymer</i> , 2011, 52, 1436-1446. | 3.8 | 87 |
| 36 | Highly porous composite aerogel based triboelectric nanogenerators for high performance energy generation and versatile self-powered sensing. <i>Nanoscale</i> , 2018, 10, 23131-23140. | 5.6 | 80 |

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|----|---|------|-----------|
| 37 | Microstructure and crystallography in microcellular injection-molded polyamide-6 nanocomposite and neat resin. <i>Polymer Engineering and Science</i> , 2005, 45, 52-61. | 3.1 | 79 |
| 38 | Thermoplastic polyurethane/hydroxyapatite electrospun scaffolds for bone tissue engineering: Effects of polymer properties and particle size. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1434-1444. | 3.4 | 77 |
| 39 | Electrospun aligned poly(propylene carbonate) microfibers with chitosan nanofibers as tissue engineering scaffolds. <i>Carbohydrate Polymers</i> , 2015, 117, 941-949. | 10.2 | 76 |
| 40 | Fabrication of poly(μ -caprolactone) tissue engineering scaffolds with fibrillated and interconnected pores utilizing microcellular injection molding and polymer leaching. <i>RSC Advances</i> , 2017, 7, 43432-43444. | 3.6 | 75 |
| 41 | Effects of nano-fillers and process conditions on the microstructure and mechanical properties of microcellular injection molded polyamide nanocomposites. <i>Polymer Composites</i> , 2003, 24, 655-671. | 4.6 | 74 |
| 42 | Microcellular processing of polylactide/hyperbranched polyester nanoclay composites. <i>Journal of Materials Science</i> , 2010, 45, 2732-2746. | 3.7 | 74 |
| 43 | Comparison between PCL/hydroxyapatite (HA) and PCL/halloysite nanotube (HNT) composite scaffolds prepared by co-extrusion and gas foaming. <i>Materials Science and Engineering C</i> , 2017, 72, 53-61. | 7.3 | 73 |
| 44 | Highly filled biochar/ultra-high molecular weight polyethylene/linear low density polyethylene composites for high-performance electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2018, 153, 277-284. | 12.0 | 72 |
| 45 | Processing and characterization of solid and microcellular PHBV/coir fiber composites. <i>Materials Science and Engineering C</i> , 2010, 30, 749-757. | 7.3 | 69 |
| 46 | Electrospinning of unidirectionally and orthogonally aligned thermoplastic polyurethane nanofibers: Fiber orientation and cell migration. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 593-603. | 4.0 | 69 |
| 47 | Superhydrophobic Graphene/Cellulose/Silica Aerogel with Hierarchical Structure as Superabsorbers for High Efficiency Selective Oil Absorption and Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1745-1755. | 3.7 | 69 |
| 48 | Effects of nano- and micro-fillers and processing parameters on injection-molded microcellular composites. <i>Polymer Engineering and Science</i> , 2005, 45, 773-788. | 3.1 | 68 |
| 49 | A composite generator film impregnated with cellulose nanocrystals for enhanced triboelectric performance. <i>Nanoscale</i> , 2017, 9, 1428-1433. | 5.6 | 67 |
| 50 | Fabrication of triple-layered vascular grafts composed of silk fibers, polyacrylamide hydrogel, and polyurethane nanofibers with biomimetic mechanical properties. <i>Materials Science and Engineering C</i> , 2019, 98, 241-249. | 7.3 | 67 |
| 51 | Polylactide, nanoclay, and core-shell rubber composites. <i>Polymer Engineering and Science</i> , 2006, 46, 1419-1427. | 3.1 | 66 |
| 52 | Stretchable gelatin/silver nanowires composite hydrogels for detecting human motion. <i>Materials Letters</i> , 2019, 237, 53-56. | 2.6 | 66 |
| 53 | Improving surface quality of microcellular injection molded parts through mold surface temperature manipulation with thin film insulation. <i>Polymer Engineering and Science</i> , 2010, 50, 1281-1289. | 3.1 | 65 |
| 54 | Electrospun nanofibrous thermoplastic polyurethane/poly(glycerol sebacate) hybrid scaffolds for vocal fold tissue engineering applications. <i>Materials Science and Engineering C</i> , 2019, 94, 740-749. | 7.3 | 64 |

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|----|--|------|-----------|
| 55 | Morphology, mechanical properties, and mineralization of rigid thermoplastic polyurethane/hydroxyapatite scaffolds for bone tissue applications: effects of fabrication approaches and hydroxyapatite size. <i>Journal of Materials Science</i> , 2014, 49, 2324-2337. | 3.7 | 60 |
| 56 | Poly(ϵ -caprolactone) Nanofibers with a Self-Induced Nanohybrid Shish-Kebab Structure Mimicking Collagen Fibrils. <i>Biomacromolecules</i> , 2013, 14, 3557-3569. | 5.4 | 59 |
| 57 | In situ synthesis of polyurethane scaffolds with tunable properties by controlled crosslinking of tri-block copolymer and polycaprolactone triol for tissue regeneration. <i>Chemical Engineering Journal</i> , 2018, 348, 786-798. | 12.7 | 58 |
| 58 | Oxygen-Rich Polymers as Highly Effective Positive Tribomaterials for Mechanical Energy Harvesting. <i>ACS Nano</i> , 2019, 13, 12787-12797. | 14.6 | 58 |
| 59 | Nucleation Catalysis in Aluminum Alloy A356 Using Nanoscale Inoculants. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2323-2330. | 2.2 | 56 |
| 60 | Promoting endothelial cell affinity and antithrombogenicity of polytetrafluoroethylene (PTFE) by mussel-inspired modification and RGD/heparin grafting. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3475-3485. | 5.8 | 56 |
| 61 | Three-dimensional numerical simulation of injection molding filling of optical lens and multiscale geometry using finite element method. <i>Polymer Engineering and Science</i> , 2006, 46, 1263-1274. | 3.1 | 54 |
| 62 | Processing and characterization of recycled poly(ethylene terephthalate) blends with chain extenders, thermoplastic elastomer, and/or poly(butylene adipate- <i>co</i> -terephthalate). <i>Polymer Engineering and Science</i> , 2011, 51, 1023-1032. | 3.1 | 54 |
| 63 | Water-assisted compounding of cellulose nanocrystals into polyamide 6 for use as a nucleating agent for microcellular foaming. <i>Polymer</i> , 2016, 84, 158-166. | 3.8 | 53 |
| 64 | Fabrication of porous synthetic polymer scaffolds for tissue engineering. <i>Journal of Cellular Plastics</i> , 2015, 51, 165-196. | 2.4 | 52 |
| 65 | Short cellulose nanofibrils as reinforcement in polyvinyl alcohol fiber. <i>Cellulose</i> , 2014, 21, 4287-4298. | 4.9 | 51 |
| 66 | The effect of nanoclay on the crystallization behavior, microcellular structure, and mechanical properties of thermoplastic polyurethane nanocomposite foams. <i>Polymer Engineering and Science</i> , 2016, 56, 319-327. | 3.1 | 51 |
| 67 | Fabrication of fibrous silica sponges by self-assembly electrospinning and their application in tissue engineering for three-dimensional tissue regeneration. <i>Chemical Engineering Journal</i> , 2018, 331, 652-662. | 12.7 | 49 |
| 68 | Fabrication of polylactic acid/polyethylene glycol (PLA/PEG) porous scaffold by supercritical CO_2 foaming and particle leaching. <i>Polymer Engineering and Science</i> , 2015, 55, 1339-1348. | 3.1 | 48 |
| 69 | Approaches to Fabricating Multiple-Layered Vascular Scaffolds Using Hybrid Electrospinning and Thermally Induced Phase Separation Methods. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 882-892. | 3.7 | 48 |
| 70 | Microcellular and Solid Polylactide-Flax Fiber Composites. <i>Composite Interfaces</i> , 2009, 16, 869-890. | 2.3 | 47 |
| 71 | Development of biomimetic thermoplastic polyurethane/fibroin small-diameter vascular grafts via a novel electrospinning approach. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 985-996. | 4.0 | 47 |
| 72 | Polycaprolactone Nanofibers Containing Vascular Endothelial Growth Factor-Encapsulated Gelatin Particles Enhance Mesenchymal Stem Cell Differentiation and Angiogenesis of Endothelial Cells. <i>Biomacromolecules</i> , 2018, 19, 3747-3753. | 5.4 | 47 |

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|----|---|-----|-----------|
| 73 | Fabrication of Porous Poly(μ -caprolactone) Scaffolds Containing Chitosan Nanofibers by Combining Extrusion Foaming, Leaching, and Freeze-Drying Methods. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17909-17918. | 3.7 | 46 |
| 74 | Instantaneous self-assembly of three-dimensional silica fibers in electrospinning: Insights into fiber deposition behavior. <i>Materials Letters</i> , 2017, 204, 45-48. | 2.6 | 46 |
| 75 | A review of thermoplastic polymer foams for functional applications. <i>Journal of Materials Science</i> , 2021, 56, 11579-11604. | 3.7 | 46 |
| 76 | Preparation of thermoplastic polyurethane/graphene oxide composite scaffolds by thermally induced phase separation. <i>Polymer Composites</i> , 2014, 35, 1408-1417. | 4.6 | 45 |
| 77 | Electrospinning Homogeneous Nanofibrous Poly(propylene carbonate)/Gelatin Composite Scaffolds for Tissue Engineering. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9391-9400. | 3.7 | 45 |
| 78 | Mechanical properties, crystallization characteristics, and foaming behavior of polytetrafluoroethylene-reinforced poly(lactic acid) composites. <i>Polymer Engineering and Science</i> , 2017, 57, 570-580. | 3.1 | 44 |
| 79 | Sub-critical gas-assisted processing using CO ₂ foaming to enhance the exfoliation of graphene in polypropylene/graphene nanocomposites. <i>Polymer</i> , 2017, 117, 132-139. | 3.8 | 43 |
| 80 | Controlling Superwettability by Microstructure and Surface Energy Manipulation on Three-Dimensional Substrates for Versatile Gravity-Driven Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37529-37535. | 8.0 | 43 |
| 81 | Programmed Release of Multimodal, Cross-Linked Vascular Endothelial Growth Factor and Heparin Layers on Electrospun Polycaprolactone Vascular Grafts. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32533-32542. | 8.0 | 43 |
| 82 | Fabrication of thermoplastic polyurethane tissue engineering scaffold by combining microcellular injection molding and particle leaching. <i>Journal of Materials Research</i> , 2014, 29, 911-922. | 2.6 | 42 |
| 83 | Manipulating the structure and mechanical properties of thermoplastic polyurethane/polycaprolactone hybrid small diameter vascular scaffolds fabricated via electrospinning using an assembled rotating collector. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 433-441. | 3.1 | 42 |
| 84 | Fabrication of polycaprolactone electrospun fibers with different hierarchical structures mimicking collagen fibrils for tissue engineering scaffolds. <i>Applied Surface Science</i> , 2018, 427, 311-325. | 6.1 | 42 |
| 85 | Process optimization of injection molding using an adaptive surrogate model with Gaussian process approach. <i>Polymer Engineering and Science</i> , 2007, 47, 684-694. | 3.1 | 41 |
| 86 | A novel thermoplastic polyurethane scaffold fabrication method based on injection foaming with water and supercritical carbon dioxide as cblowing agents. <i>Polymer Engineering and Science</i> , 2014, 54, 2947-2957. | 3.1 | 41 |
| 87 | Mathematical modeling and numerical simulation of cell growth in injection molding of microcellular plastics. <i>Polymer Engineering and Science</i> , 2004, 44, 2274-2287. | 3.1 | 40 |
| 88 | Characterization and properties of electrospun thermoplastic polyurethane blend fibers: Effect of solution rheological properties on fiber formation. <i>Journal of Materials Research</i> , 2013, 28, 2339-2350. | 2.6 | 40 |
| 89 | Fabrication and characterization of injection molded poly (μ -caprolactone) and poly (μ -caprolactone)/hydroxyapatite scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2012, 32, 1674-1681. | 7.3 | 39 |
| 90 | Carbon nanotube (CNT) and nanofibrillated cellulose (NFC) reinforcement effect on thermoplastic polyurethane (TPU) scaffolds fabricated via phase separation using dimethyl sulfoxide (DMSO) as solvent. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 417-427. | 3.1 | 39 |

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|-----|--|-----|-----------|
| 91 | Fabrication of highly expanded thermoplastic polyurethane foams using microcellular injection molding and gas-laden pellets. <i>Polymer Engineering and Science</i> , 2015, 55, 2643-2652. | 3.1 | 37 |
| 92 | Investigation of Thermal and Thermomechanical Properties of Biodegradable PLA/PBSA Composites Processed via Supercritical Fluid-Assisted Foam Injection Molding. <i>Polymers</i> , 2017, 9, 22. | 4.5 | 37 |
| 93 | Intelligent Injection Molding on Sensing, Optimization, and Control. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-22. | 1.7 | 36 |
| 94 | Crystallization measurements via ultrasonic velocity: Study of poly(lactic acid) parts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 700-708. | 2.1 | 35 |
| 95 | Enhancing Nanofiller Dispersion Through Prefoaming and Its Effect on the Microstructure of Microcellular Injection Molded Polylactic Acid/Clay Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7122-7130. | 3.7 | 34 |
| 96 | Fabrication of triple-layered vascular scaffolds by combining electrospinning, braiding, and thermally induced phase separation. <i>Materials Letters</i> , 2015, 161, 305-308. | 2.6 | 34 |
| 97 | Wavy small-diameter vascular graft made of eggshell membrane and thermoplastic polyurethane. <i>Materials Science and Engineering C</i> , 2020, 107, 110311. | 7.3 | 34 |
| 98 | Long-term nitric oxide release for rapid endothelialization in expanded polytetrafluoroethylene small-diameter artificial blood vessel grafts. <i>Applied Surface Science</i> , 2020, 507, 145028. | 6.1 | 34 |
| 99 | Adaptive online quality control for injection-molding by monitoring and controlling mold separation. <i>Polymer Engineering and Science</i> , 2006, 46, 569-580. | 3.1 | 33 |
| 100 | Injection molding quality control by integrating weight feedback into a cascade closed-loop control system. <i>Polymer Engineering and Science</i> , 2007, 47, 852-862. | 3.1 | 31 |
| 101 | Influence and prediction of processing parameters on the properties of microcellular injection molded thermoplastic polyurethane based on an orthogonal array test. <i>Journal of Cellular Plastics</i> , 2013, 49, 439-458. | 2.4 | 31 |
| 102 | Mechanical properties, fiber orientation, and length distribution of glass fiber-reinforced polypropylene parts: Influence of water-foaming technology. <i>Polymer Composites</i> , 2018, 39, 4386-4399. | 4.6 | 31 |
| 103 | In-situ ultrasonic characterization of microcellular injection molding. <i>Journal of Materials Processing Technology</i> , 2019, 270, 254-264. | 6.3 | 31 |
| 104 | Novel injection molding foaming approaches using gas-laden pellets with N_2 , CO_2 , and $N_2 + CO_2$ as the blowing agents. <i>Polymer Engineering and Science</i> , 2014, 54, 899-913. | 3.1 | 30 |
| 105 | Properties and fibroblast cellular response of soft and hard thermoplastic polyurethane electrospun nanofibrous scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 960-970. | 3.4 | 30 |
| 106 | Aerogel microspheres based on cellulose nanofibrils as potential cell culture scaffolds. <i>Cellulose</i> , 2017, 24, 2791-2799. | 4.9 | 30 |
| 107 | A Multidomain Model of Planar Electro-Active Polymer Actuators. <i>IEEE Transactions on Industry Applications</i> , 2005, 41, 1142-1148. | 4.9 | 29 |
| 108 | Defect diagnosis for polymeric samples via magnetic levitation. <i>NDT and E International</i> , 2018, 100, 175-182. | 3.7 | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Surface modification of polytetrafluoroethylene (PTFE) with a heparin-immobilized extracellular matrix (ECM) coating for small-diameter vascular grafts applications. <i>Materials Science and Engineering C</i> , 2021, 128, 112301. | 7.3 | 29 |
| 110 | Fabrication of shishâ€“kebab structured poly(ϵ -caprolactone) electrospun nanofibers that mimic collagen fibrils: Effect of solvents and matrigel functionalization. <i>Polymer</i> , 2014, 55, 5396-5406. | 3.8 | 28 |
| 111 | Adaptive multiobjective optimization of process conditions for injection molding using a Gaussian process approach. <i>Advances in Polymer Technology</i> , 2007, 26, 71-85. | 1.7 | 27 |
| 112 | Study of polystyrene/titanium dioxide nanocomposites via melt compounding for optical applications. <i>Polymer Composites</i> , 2007, 28, 241-250. | 4.6 | 27 |
| 113 | Morphological evolution and orientation development of stretched iPP films: Influence of draw ratio. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1223-1234. | 2.1 | 27 |
| 114 | Effect of carbonization temperature on mechanical properties and biocompatibility of biochar/ultra-high molecular weight polyethylene composites. <i>Composites Part B: Engineering</i> , 2020, 196, 108120. | 12.0 | 27 |
| 115 | Adaptive geometry and process optimization for injection molding using the kriging surrogate model trained by numerical simulation. <i>Advances in Polymer Technology</i> , 2008, 27, 1-16. | 1.7 | 26 |
| 116 | Enhanced performance of an expanded polytetrafluoroethylene-based triboelectric nanogenerator for energy harvesting. <i>Nano Energy</i> , 2019, 60, 903-911. | 16.0 | 26 |
| 117 | Axial-Circular Magnetic Levitation: A Three-Dimensional Density Measurement and Manipulation Approach. <i>Analytical Chemistry</i> , 2020, 92, 6925-6931. | 6.5 | 26 |
| 118 | Crystallization and thermal behavior of microcellular injection-molded polyamide-6 nanocomposites. <i>Polymer Engineering and Science</i> , 2006, 46, 904-918. | 3.1 | 25 |
| 119 | A new microcellular injection molding process for polycarbonate using water as the physical blowing agent. <i>Polymer Engineering and Science</i> , 2012, 52, 1464-1473. | 3.1 | 25 |
| 120 | Comparative study of chemical and physical foaming methods for injection-molded thermoplastic polyurethane. <i>Journal of Cellular Plastics</i> , 2017, 53, 373-388. | 2.4 | 25 |
| 121 | Three-dimensional numerical simulation of injection mold filling with a finite-volume method and parallel computing. <i>Advances in Polymer Technology</i> , 2006, 25, 247-258. | 1.7 | 24 |
| 122 | Novel foam injection molding technology using carbon dioxideâ€“laden pellets. <i>Polymer Engineering and Science</i> , 2011, 51, 2295-2303. | 3.1 | 24 |
| 123 | Improved Processability and the Processing-Structure-Properties Relationship of Ultra-High Molecular Weight Polyethylene via Supercritical Nitrogen and Carbon Dioxide in Injection Molding. <i>Polymers</i> , 2018, 10, 36. | 4.5 | 24 |
| 124 | Biologically Functionalized Expanded Polytetrafluoroethylene Blood Vessel Grafts. <i>Biomacromolecules</i> , 2020, 21, 3807-3816. | 5.4 | 24 |
| 125 | In vitro evaluations of electrospun nanofiber scaffolds composed of poly(ϵ -caprolactone) and polyethylenimine. <i>Journal of Materials Research</i> , 2015, 30, 1808-1819. | 2.6 | 23 |
| 126 | Post-crosslinkable biodegradable thermoplastic polyurethanes: Synthesis, and thermal, mechanical, and degradation properties. <i>Materials and Design</i> , 2017, 127, 106-114. | 7.0 | 23 |

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|-----|--|-----|-----------|
| 127 | Poly(lactide)/thermoplastic polyurethane/polytetrafluoroethylene nanocomposites with in situ fibrillated polytetrafluoroethylene and nanomechanical properties at the interface using atomic force microscopy. <i>Polymer Testing</i> , 2018, 67, 22-30. | 4.8 | 23 |
| 128 | Effects of nanoclays on the thermal stability and flame retardancy of microcellular thermoplastic polyurethane nanocomposites. <i>Polymer Composites</i> , 2018, 39, E1429. | 4.6 | 23 |
| 129 | Modification of 3-D Porous Hydroxyapatite/Thermoplastic Polyurethane Composite Scaffolds for Reinforcing Interfacial Adhesion by Polydopamine Surface Coating. <i>ACS Omega</i> , 2019, 4, 6382-6391. | 3.5 | 23 |
| 130 | Eggshell membrane and expanded polytetrafluoroethylene piezoelectric-enhanced triboelectric bio-nanogenerators for energy harvesting. <i>International Journal of Energy Research</i> , 2021, 45, 11053-11064. | 4.5 | 23 |
| 131 | Comprehensive study on cellular morphologies, proliferation, motility, and epithelial-mesenchymal transition of breast cancer cells incubated on electrospun polymeric fiber substrates. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2588-2600. | 5.8 | 22 |
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