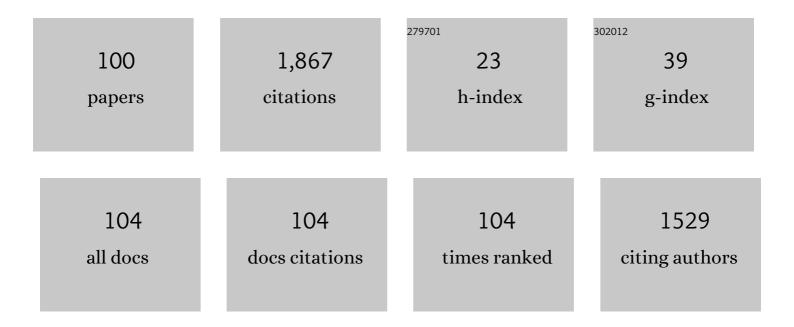
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Simulation of the filling process in micro channels for polymeric materials. Journal of Micromechanics and Microengineering, 2002, 12, 604-610. | 1.5 | 155 |
| 2 | Development of rapid heating and cooling systems for injection molding applications. Polymer Engineering and Science, 2002, 42, 2471-2481. | 1.5 | 131 |
| 3 | High-frequency proximity heating for injection molding applications. Polymer Engineering and Science, 2006, 46, 938-945. | 1.5 | 102 |
| 4 | Rapid thermal cycling of injection molds: An overview on technical approaches and applications. Advances in Polymer Technology, 2008, 27, 233-255. | 0.8 | 90 |
| 5 | Preparation of single poly(lactic acid) composites. Journal of Applied Polymer Science, 2008, 107, 2909-2916. | 1.3 | 76 |
| 6 | Scaling Issues in Miniaturization of Injection Molded Parts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 733-739. | 1.3 | 71 |
| 7 | Rapid hot embossing of polymer microfeatures. Microsystem Technologies, 2006, 12, 730-735. | 1.2 | 64 |
| 8 | Chondrogenic Derivatives of Embryonic Stem Cells Seeded into 3D Polycaprolactone Scaffolds Generated Cartilage Tissue <i>In Vivo</i> . Tissue Engineering - Part A, 2008, 14, 1403-1413. | 1.6 | 62 |
| 9 | Controllable Growth of Gradient Porous Structures. Biomacromolecules, 2009, 10, 1282-1286. | 2.6 | 57 |
| 10 | INCREASING FLOW LENGTH IN THIN WALL INJECTION MOLDING USING A RAPIDLY HEATED MOLD. Polymer-Plastics Technology and Engineering, 2002, 41, 819-832. | 1.9 | 55 |
| 11 | Single-polymer composites based on slowly crystallizing polymers. Polymer Engineering and Science, 2006, 46, 1223-1230. | 1.5 | 54 |
| 12 | Study on squeezing flow during nonisothermal embossing of polymer microstructures. Polymer Engineering and Science, 2005, 45, 652-660. | 1.5 | 45 |
| 13 | A novel process for continuous thermal embossing of largeâ€area nanopatterns onto polymer films. Advances in Polymer Technology, 2009, 28, 246-256. | 0.8 | 37 |
| 14 | Injection Molding Nanoscale Features with the Aid of Induction Heating. Polymer-Plastics Technology and Engineering, 2007, 46, 1031-1037. | 1.9 | 36 |
| 15 | Compression Induced Chondrogenic Differentiation of Embryonic Stem Cells in Three-Dimensional Polydimethylsiloxane Scaffolds. Tissue Engineering - Part A, 2017, 23, 426-435. | 1.6 | 34 |
| 16 | Replication of Microstructures by Roll-to-Roll UV-Curing Embossing. Polymer-Plastics Technology and Engineering, 2008, 47, 865-873. | 1.9 | 30 |
| 17 | Rapid pattern transfer of biomimetic surface structures onto thermoplastic polymers. Materials Science and Engineering C, 2007, 27, 794-797. | 3.8 | 29 |
| 18 | A microlens array on curved substrates by 3D micro projection and reflow process. Sensors and Actuators A: Physical, 2012, 179, 242-250. | 2.0 | 28 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Gel spinning of UHMWPE fibers with polybutene as a new spin solvent. Polymer Engineering and Science, 2016, 56, 697-706. | 1.5 | 28 |
| 20 | Mechanisms and modeling of electrohydrodynamic phenomena. International Journal of Bioprinting, 2018, 5, 166. | 1.7 | 28 |
| 21 | A two-station embossing process for rapid fabrication of surface microstructures on thermoplastic polymers. Polymer Engineering and Science, 2007, 47, 530-539. | 1.5 | 26 |
| 22 | Study of the Curing Kinetics toward Development of Fast-Curing Epoxy Resins. Polymer-Plastics Technology and Engineering, 2017, 56, 161-170. | 1.9 | 26 |
| 23 | Fabrication of polycaprolactone scaffolds using a sacrificial compression-molding process. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 77B, 287-295. | 1.6 | 24 |
| 24 | Anthraquinone chromophore covalently bonded blocked waterborne polyurethanes: synthesis and application. RSC Advances, 2015, 5, 30631-30639. | 1.7 | 23 |
| 25 | Numerical Simulation for Injection Molding with a Rapidly Heated Mold, Part I: Flow Simulation for Thin Wall Parts. Polymer-Plastics Technology and Engineering, 2006, 45, 897-902. | 1.9 | 21 |
| 26 | Removal of spandex from nylon/spandex blended fabrics by selective polymer degradation. Textile Reseach Journal, 2014, 84, 16-27. | 1.1 | 21 |
| 27 | Rubber-assisted micro forming of polymer thin films. Microsystem Technologies, 2009, 15, 251-257. | 1.2 | 20 |
| 28 | Synthesis of blocked waterborne polyurethane polymeric dyes with tailored molecular weight: thermal, rheological and printing properties. RSC Advances, 2016, 6, 56831-56838. | 1.7 | 20 |
| 29 | Numerical Simulation for Injection Molding with a Rapidly Heated Mold, Part II: Birefringence Prediction. Polymer-Plastics Technology and Engineering, 2006, 45, 903-909. | 1.9 | 19 |
| 30 | Insert injection molding of polypropylene single-polymer composites. Composites Science and Technology, 2015, 106, 47-54. | 3.8 | 18 |
| 31 | Development of a gel spinning process for highâ€strength poly(ethylene oxide) fibers. Polymer Engineering and Science, 2014, 54, 2839-2847. | 1.5 | 17 |
| 32 | A new method for formulating linear viscoelastic models. International Journal of Engineering Science, 2020, 156, 103375. | 2.7 | 16 |
| 33 | Developing rapid heating and cooling systems using pyrolytic graphite. Applied Thermal Engineering, 2003, 23, 341-352. | 3.0 | 15 |
| 34 | Fabrication of interconnected microporous biomaterials with high hydroxyapatite nanoparticle loading. Biofabrication, 2010, 2, 035006. | 3.7 | 15 |
| 35 | Processing of composite polystyrene foam with a honeycomb structure. Polymer Engineering and Science, 2015, 55, 1494-1503. | 1.5 | 14 |
| 36 | Synchronous degradation and decolorization of colored poly(ethylene terephthalate) fabrics for the synthesis of high purity terephthalic acid. Journal of Cleaner Production, 2022, 366, 132985. | 4.6 | 14 |

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| 37 | Geometrical Confining Effects in Compression Molding of Co-continuous Polymer Blends. Annals of Biomedical Engineering, 2010, 38, 1954-1964. | 1.3 | 13 |
| 38 | Processing of viscoelastic data via a generalized fractional model. International Journal of Engineering Science, 2021, 161, 103465. | 2.7 | 13 |
| 39 | Cold forging method for polymer microfabrication. Polymer Engineering and Science, 2004, 44, 1998-2004. | 1.5 | 12 |
| 40 | Uniform shell patterning using rubberâ€assisted hot embossing process. I. Experimental. Polymer Engineering and Science, 2011, 51, 592-600. | 1.5 | 12 |
| 41 | Porogen Templating Processes: An Overview. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, . | 1.3 | 12 |
| 42 | A Strategy for Rapid Thermal Cycling of Molds in Thermoplastic Processing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 837-843. | 1.3 | 11 |
| 43 | Hot embossing of discrete microparts. Polymer Engineering and Science, 2009, 49, 1894-1901. | 1.5 | 11 |
| 44 | Processing properties of polypropylene with a minor addition of silicone oil. Polymer Engineering and Science, 2010, 50, 1340-1349. | 1.5 | 10 |
| 45 | Uniform shell patterning using rubberâ€assisted hot embossing process. II. Process analysis. Polymer Engineering and Science, 2011, 51, 601-608. | 1.5 | 10 |
| 46 | A non-Newtonian fluid model with an objective vorticity. Journal of Non-Newtonian Fluid Mechanics, 2015, 218, 99-105. | 1.0 | 10 |
| 47 | A non-Newtonian fluid model with finite stretch and rotational recovery. Journal of Non-Newtonian Fluid Mechanics, 2016, 230, 12-18. | 1.0 | 10 |
| 48 | A fractional dashpot for nonlinear viscoelastic fluids. Journal of Rheology, 2018, 62, 619-629. | 1.3 | 10 |
| 49 | Melt spinning of continuous fibers by cold air attenuation I: experimental studies. Textile Reseach Journal, 2014, 84, 593-603. | 1.1 | 9 |
| 50 | Rapid Vacuum Infusion and Curing of Epoxy Composites with a Rubber-Cushioned Mold Design. Polymer-Plastics Technology and Engineering, 2016, 55, 1030-1038. | 1.9 | 9 |
| 51 | Fabrication of high-strength polyoxymethylene fibers by gel spinning. Journal of Materials Science, 2018, 53, 11901-11916. | 1.7 | 9 |
| 52 | Reversibly Superwettable Polyester Fabric Based on pH-Responsive Branched Polymer Nanoparticles. Industrial & Engineering Chemistry Research, 2020, 59, 2899-2907. | 1.8 | 9 |
| 53 | Thermal, mechanical, and tribological properties of epoxy polymer/EPU blends reinforced by low concentration of octaaminophenyl POSS. Polymer Engineering and Science, 2021, 61, 780-792. | 1.5 | 9 |
| 54 | An enlarged process window for hot embossing. Journal of Micromechanics and Microengineering, 2008, 18, 045023. | 1.5 | 8 |

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| 55 | Fabrication of Interconnected Porous Elastomers by a Microsphereâ€Templating Process. Advances in Polymer Technology, 2013, 32, . | 0.8 | 8 |
| 56 | Extrusion Roller Imprinting with a Variotherm Belt Mold. Machines, 2014, 2, 299-311. | 1.2 | 8 |
| 57 | Challenges and Advances in Aerosol Jet Printing of Regenerated Silk Fibroin Solutions. Advanced Materials Interfaces, 2020, 7, 1902005. | 1.9 | 8 |
| 58 | Through-thickness embossing process for fabrication of three-dimensional thermoplastic parts. Polymer Engineering and Science, 2007, 47, 2075-2084. | 1.5 | 7 |
| 59 | Mechanical behavior of porous polysiloxane with micropores interconnected by microchannels. Polymer Engineering and Science, 2014, 54, 1512-1522. | 1.5 | 7 |
| 60 | Microwave processing of syntactic foam from an expandable thermoset/thermoplastic mixture. Polymer Engineering and Science, 2015, 55, 1818-1828. | 1.5 | 7 |
| 61 | Fast solvent removal by mechanical twisting for gel spinning of ultrastrong fibers. Polymer Engineering and Science, 2015, 55, 745-752. | 1.5 | 6 |
| 62 | Melt spinning of high-strength fiber from low-molecular-weight polypropylene. Polymer Engineering and Science, 2016, 56, 233-239. | 1.5 | 6 |
| 63 | An effective method of processing immiscible polymer blends into strong fiber. Polymer Engineering and Science, 2019, 59, 2052-2061. | 1.5 | 6 |
| 64 | Super stretchable chromatic polyurethane driven by anthraquinone chromogen as a chain extender. RSC Advances, 2019, 9, 2332-2342. | 1.7 | 6 |
| 65 | Organic/inorganic hybrid nanostructured composites of liquid nitrile rubberâ€based quaternary ammonium saltâ€modified montmorillonite and epoxy resin: preparation and tribological behaviors. Polymer Composites, 2020, 41, 1711-1720. | 2.3 | 6 |
| 66 | Direct drawing of gel fibers enabled by twistâ€gel spinning process. Polymer Engineering and Science, 2015, 55, 1389-1395. | 1.5 | 5 |
| 67 | Recycling of Polyethylene Bags into High‣trength Yarns Without Using Melt Processing. Polymer Engineering and Science, 2020, 60, 281-287. | 1.5 | 5 |
| 68 | Tribological and thermomechanical properties of epoxy-matrix nanocomposites containing montmorillonite nanoclay intercalated with polybutadiene-based quaternary ammonium salt. Plastics, Rubber and Composites, 2020, 49, 389-399. | 0.9 | 5 |
| 69 | Scaleâ€Up Synthesis of High Purity Calcium Terephthalate from Polyethylene Terephthalate Waste: Purification, Characterization, and Quantification. Macromolecular Materials and Engineering, 2021, 306, 2100591. | 1.7 | 5 |
| 70 | An effective and simple process for obtaining high strength silkworm (Bombyx mori) silk fiber. Fibers and Polymers, 2015, 16, 2609-2616. | 1.1 | 4 |
| 71 | Injection Molding Poly(Para-phenylene) with a Rapidly Heated Mold. Polymer-Plastics Technology and Engineering, 2009, 48, 1008-1013. | 1.9 | 3 |
| 72 | Constitutive modeling of complex interfaces based on a differential interfacial energy function. Rheologica Acta, 2011, 50, 199-206. | 1.1 | 3 |

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| 73 | Fusion bonding of supercooled poly(ethylene terephthalate) between <i>T</i> _{<i>g</i>} and <i>T</i> _{<i>m</i>} . Journal of Applied Polymer Science, 2011, 119, 3101-3112. | 1.3 | 3 |
| 74 | Rubber-assisted embossing of polymer thin films using molds with through-thickness microchannels. Microsystem Technologies, 2012, 18, 481-488. | 1.2 | 3 |
| 75 | Melt spinning of continuous fibers by cold air attenuation: II. Theoretical modeling. Textile Reseach Journal, 2014, 84, 604-613. | 1.1 | 3 |
| 76 | Modeling of expandable polystyrene expansion. Journal of Applied Polymer Science, 2016, 133, . | 1.3 | 3 |
| 77 | Aerosol Jet Printing: Challenges and Advances in Aerosol Jet Printing of Regenerated Silk Fibroin Solutions (Adv. Mater. Interfaces 12/2020). Advanced Materials Interfaces, 2020, 7, 2070065. | 1.9 | 3 |
| 78 | From semisolid metal processing to thixotropic 3D printing of metallic alloys. Virtual and Physical Prototyping, 0, , 1-19. | 5.3 | 3 |
| 79 | Cold forging behavior of semicrystalline polymers. Journal of Applied Polymer Science, 2005, 96, 764-771. | 1.3 | 2 |
| 80 | Design and Verification of the Pressure-Driven Radial Flow Microrheometer. Tribology Transactions, 2008, 51, 396-402. | 1.1 | 2 |
| 81 | Polymer micro hot embossing for the fabrication of three-dimensional millimeter-wave components. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , . | 0.0 | 2 |
| 82 | A visco-hyperelastic formulation for the rheology of immiscible blends. Journal of Rheology, 2012, 56, 767-795. | 1.3 | 2 |
| 83 | Micropatterning of Porous Structures from Co/Continuous Polymer Blends. Advances in Polymer Technology, 2013, 32, . | 0.8 | 2 |
| 84 | Maxwell models with relaxation in logarithmic strains. AIP Conference Proceedings, 2015, , . | 0.3 | 2 |
| 85 | Experimental and numerical study of microchannel formation in rubber-assisted hot embossing with an open-channel mold. Microsystem Technologies, 2017, 23, 1221-1227. | 1.2 | 2 |
| 86 | Dynamics and rheology of finitely extensible polymer coils: An overview. AIP Conference Proceedings, 2017, , . | 0.3 | 2 |
| 87 | Twist-film gel spinning of large-diameter high-performance ultra-high molecular weight polyethylene monofilaments. Textile Reseach Journal, 2017, 87, 2323-2336. | 1.1 | 2 |
| 88 | A Simple Process for Making Supercontraction Fiber From Polycaprolactone/Elastomer Blends. Polymer Engineering and Science, 2020, 60, 793-801. | 1.5 | 2 |
| 89 | Toward Making Poly(ethylene terephthalate) Degradable in Aqueous Environment. Macromolecular Materials and Engineering, 0, , 2100832. | 1.7 | 2 |
| 90 | Rubber-Assisted Hot Embossing for Structuring Thin Polymer Film Polymeric Films. , 2006, , 217. | | 1 |

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| 91 | Instantaneous Phase Separation at the Contact Surface in Compression Molding of Immiscible Polymer Blend. , 2010, , . | | 1 |
| 92 | Constant Temperature Embossing of PEEK Films. , 2013, , . | | 1 |
| 93 | Constant-temperature embossing of supercooled polymer films. Polymer Engineering and Science, 2014, 54, 1100-1112. | 1.5 | 1 |
| 94 | Processing of Nanodiamond Loaded Poly(Lactic Acid) Co-Continuous Porous Structures. , 2010, , . | | 0 |
| 95 | Preparation of Interconnected Microporous Poly(glycolic-co-lactic acid) With High Hydroxyapatite Loading. , 2010, , . | | 0 |
| 96 | Laser-induced Breakdown Spectroscopy Sensor System for Internet of Things. , 2012, , . | | 0 |
| 97 | A framework for nonlinear viscoelasticity on the basis of logarithmic strain and projected velocity gradient. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 98 | Polymer and Composite Processing. , 2019, , 383-417. | | 0 |
| 99 | Introduction to Plastics Engineering, by Vijay K. Stokes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, . | 1.3 | 0 |
| 100 | Modeling and Simulation of the Process for the Generation of Gradient Porous Structures From Immiscible Polymer Blends. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, . | 1.3 | 0 |