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	Effects of expandable graphite on the flame-retardant and mechanical performances of rigid polyurethane foams. Journal of Physics Condensed Matter, 2022, 34, 084002.	1.8	6
2	Cell morphologies, mechanical properties, and fiber orientation of glass fiber-reinforced polyamide composites: Influence of subcritical gas-laden pellet injection molding foaming technology. Physics of Fluids, 2022, 34, .	4.0	5
3	Physical shish-kebab modification vs. chemical surface coating on expanded polytetrafluoroethylene vascular grafts for enhanced endothelial cell adhesion. Materials and Design, 2022, 220, 110889.	7.0	5
4	Expanded polytetrafluoroethylene/silk fibroin/salicin vascular graft fabrication for improved endothelialization and anticoagulation. Applied Surface Science, 2021, 542, 148610.	6.1	7
5	A biomimetic basement membrane consisted of hybrid aligned nanofibers and microfibers with immobilized collagen IV and laminin for rapid endothelialization. Bio-Design and Manufacturing, 2021, 4, 171-189.	7.7	16
6	Viscosity characterization and flow simulation and visualization of polytetrafluoroethylene paste extrusion using a green and biofriendly lubricant. Polymer Engineering and Science, 2021, 61, 1050-1065.	3.1	5
7	Eggshell membrane and expanded polytetrafluoroethylene piezoelectricâ€enhanced triboelectric bioâ€nanogenerators for energy harvesting. International Journal of Energy Research, 2021, 45, 11053-11064.	4.5	23
8	A review of thermoplastic polymer foams for functional applications. Journal of Materials Science, 2021, 56, 11579-11604.	3.7	46
9	Current state of magnetic levitation and its applications in polymers: A review. Sensors and Actuators B: Chemical, 2021, 333, 129533.	7.8	21
10	Surface modification of polytetrafluoroethylene (PTFE) with a heparin-immobilized extracellular matrix (ECM) coating for small-diameter vascular grafts applications. Materials Science and Engineering C, 2021, 128, 112301.	7.3	29
11	Microcellular injection molding of polymers: a review of process know-how, emerging technologies, and future directions. Current Opinion in Chemical Engineering, 2021, 33, 100694.	7.8	18
12	Nonâ€linear rheological response as a tool for assessing dispersion in polypropylene/polycaprolactone/clay nanocomposites and blends made with subâ€critical gasâ€assisted processing. Polymer Engineering and Science, 2020, 60, 55-60.	3.1	8
13	Wavy small-diameter vascular graft made of eggshell membrane and thermoplastic polyurethane. Materials Science and Engineering C, 2020, 107, 110311.	7.3	34
14	Subcritical gasâ€assisted processing of ethylene vinyl alcoholâ€‰+â€‰nanoclay composites. Polymer Composites, 2020, 41, 1584-1594.	4.6	3
15	Dual super-amphiphilic modified cellulose acetate nanofiber membranes with highly efficient oil/water separation and excellent antifouling properties. Journal of Hazardous Materials, 2020, 385, 121582.	12.4	96
16	Fabrication of Poly(lactic acid)/Silkworm Excrement Composite with Enhanced Crystallization, Toughness and Biodegradation Properties. Journal of Polymers and the Environment, 2020, 28, 295-303.	5.0	6
17	Long-term nitric oxide release for rapid endothelialization in expanded polytetrafluoroethylene small-diameter artificial blood vessel grafts. Applied Surface Science, 2020, 507, 145028.	6.1	34
18	Poly[(Butyl acrylate)-co-(butyl methacrylate)] as Transparent Tribopositive Material for High-Performance Hydrogel-Based Triboelectric Nanogenerators. ACS Applied Polymer Materials, 2020, 2, 5219-5227.	4.4	15

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19	Expanded Polytetrafluoroethylene/Graphite Composites for Easy Water/Oil Separation. ACS Applied Materials & Interfaces, 2020, 12, 38241-38248.	8.0	18
20	Breakup of a Viscoelastic Droplet in Co-Rotating Non-Twin Screw Channels. Industrial & Engineering Chemistry Research, 2020, 59, 15075-15086.	3.7	5
21	Biologically Functionalized Expanded Polytetrafluoroethylene Blood Vessel Grafts. Biomacromolecules, 2020, 21, 3807-3816.	5.4	24
22	Effect of carbonization temperature on mechanical properties and biocompatibility of biochar/ultra-high molecular weight polyethylene composites. Composites Part B: Engineering, 2020, 196, 108120.	12.0	27
23	Expanded Poly(tetrafluoroethylene) Blood Vessel Grafts with Embedded Reactive Oxygen Species (ROS)-Responsive Antithrombogenic Drug for Elimination of Thrombosis. ACS Applied Materials & Interfaces, 2020, 12, 29844-29853.	8.0	9
24	Highly Efficient Removal of Methylene Blue Dye from an Aqueous Solution Using Cellulose Acetate Nanofibrous Membranes Modified by Polydopamine. ACS Omega, 2020, 5, 5389-5400.	3.5	170
25	Axial-Circular Magnetic Levitation: A Three-Dimensional Density Measurement and Manipulation Approach. Analytical Chemistry, 2020, 92, 6925-6931.	6.5	26
26	Electrospun bead-in-string fibrous membrane prepared from polysilsesquioxane-immobilising poly(lactic acid) with low filtration resistance for air filtration. Journal of Polymer Research, 2020, 27, 1.	2.4	18
27	Ethanol-lubricated expanded-polytetrafluoroethylene vascular grafts loaded with eggshell membrane extract and heparin for rapid endothelialization and anticoagulation. Applied Surface Science, 2020, 511, 145565.	6.1	16
28	Characterization of polymer materials using magnetic levitation. Journal of Materials Research, 2020, 35, 1182-1189.	2.6	6
29	Intelligent Injection Molding on Sensing, Optimization, and Control. Advances in Polymer Technology, 2020, 2020, 1-22.	1.7	36
30	Artificial small-diameter blood vessels: materials, fabrication, surface modification, mechanical properties, and bioactive functionalities. Journal of Materials Chemistry B, 2020, 8, 1801-1822.	5.8	90
31	Programmed Release of Multimodal, Cross-Linked Vascular Endothelial Growth Factor and Heparin Layers on Electrospun Polycaprolactone Vascular Grafts. ACS Applied Materials & Interfaces, 2019, 11, 32533-32542.	8.0	43
32	Preparation of fastâ€‰degrading poly(lactic acid)/soy protein concentrate biocomposite foams via supercritical CO₂ foaming. Polymer Engineering and Science, 2019, 59, 1753-1762.	3.1	13
33	Oxygen-Rich Polymers as Highly Effective Positive Tribomaterials for Mechanical Energy Harvesting. ACS Nano, 2019, 13, 12787-12797.	14.6	58
34	The effects of nanoclay and deformation conditions on the inelastic behavior of thermoplastic polyurethane foams. Polymer Testing, 2019, 79, 106043.	4.8	20
35	Injection molding of delaminationâ€‰free ultraâ€‰highâ€‰molecularâ€‰weight polyethylene. Polymer Engineering and Science, 2019, 59, 2313-2322.	3.1	10
36	An improved technique for dispersion of natural graphite particles in thermoplastic polyurethane by sub-critical gas-assisted processing. Composites Science and Technology, 2019, 182, 107783.	7.8	20

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37	Sub-critical gas-assisted processing of ethylene vinyl alcohol + nanoclay composites. AIP Conference Proceedings, 2019, , .	0.4	1
38	Fabrication and modification of wavy multicomponent vascular grafts with biomimetic mechanical properties, antithrombogenicity, and enhanced endothelial cell affinity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2397-2408.	3.4	15
39	Effect of centerline distance on mixing of a Non-Newtonian fluid in a cavity with asymmetric rotors. Physics of Fluids, 2019, 31, 021205.	4.0	11
40	Highly transparent, stretchable, and rapid self-healing polyvinyl alcohol/cellulose nanofibril hydrogel sensors for sensitive pressure sensing and human motion detection. Sensors and Actuators B: Chemical, 2019, 295, 159-167.	7.8	199
41	Ultrasonicationâ€Induced Modification of Hydroxyapatite Nanoparticles onto a 3D Porous Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Ov and Engineering, 2019, 304, 1900081.	3.6	12
42	Enhanced performance of an expanded polytetrafluoroethylene-based triboelectric nanogenerator for energy harvesting. Nano Energy, 2019, 60, 903-911.	16.0	26
43	Stereocomplex formation in injection-molded poly(L-lactic acid)/poly(D-lactic acid) blends. Journal of Polymer Engineering, 2019, 39, 279-286.	1.4	4
44	Micro-injection molded, poly(vinyl alcohol)-calcium salt templates for precise customization of 3D hydrogel internal architecture. Acta Biomaterialia, 2019, 95, 258-268.	8.3	22
45	In-situ ultrasonic characterization of microcellular injection molding. Journal of Materials Processing Technology, 2019, 270, 254-264.	6.3	31
46	Modification of 3-D Porous Hydroxyapatite/Thermoplastic Polyurethane Composite Scaffolds for Reinforcing Interfacial Adhesion by Polydopamine Surface Coating. ACS Omega, 2019, 4, 6382-6391.	3.5	23
47	Fabrication of triple-layered vascular grafts composed of silk fibers, polyacrylamide hydrogel, and polyurethane nanofibers with biomimetic mechanical properties. Materials Science and Engineering C, 2019, 98, 241-249.	7.3	67
48	Stretchable gelatin/silver nanowires composite hydrogels for detecting human motion. Materials Letters, 2019, 237, 53-56.	2.6	66
49	Injection and injection compression molding of ultraâ€highâ€molecular weight polyethylene powder. Polymer Engineering and Science, 2019, 59, E170.	3.1	14
50	Residual wall thickness of waterâ€powered projectileâ€assisted injection molding pipes. Polymer Engineering and Science, 2019, 59, 295-303.	3.1	9
51	Electrospun nanofibrous thermoplastic polyurethane/poly(glycerol sebacate) hybrid scaffolds for vocal fold tissue engineering applications. Materials Science and Engineering C, 2019, 94, 740-749.	7.3	64
52	A Visualization of Flow Patterns of Viscoelastic Fluid Partially Filled in a Coâ€Rotating Nontwin Screw Extruder. Polymer Engineering and Science, 2019, 59, E24.	3.1	4
53	Effect of alkyl group on the chain extension of phosphites in polylactide. Journal of Vinyl and Additive Technology, 2019, 25, 144-148.	3.4	1
54	In-situ fibrillated polytetrafluoroethylene (PTFE) in thermoplastic polyurethane (TPU) via melt blending: Effect on rheological behavior, mechanical properties, and microcellular foamability. Polymer, 2018, 134, 263-274.	3.8	98

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55	Mechanical properties and thermal characteristics of poly(lactic acid) and paraffin wax blends prepared by conventional melt compounding and sub-critical gas-assisted processing (SGAP). European Polymer Journal, 2018, 98, 262-272.	5.4	9
56	Polylactide/thermoplastic polyurethane/polytetrafluoroethylene nanocomposites with in situ fibrillated polytetrafluoroethylene and nanomechanical properties at the interface using atomic force microscopy. Polymer Testing, 2018, 67, 22-30.	4.8	23
57	Endogenous biological factors modulated by substrate stiffness regulate endothelial differentiation of mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2018, 106, 1595-1603.	4.0	11
58	Highly compressible ultra-light anisotropic cellulose/graphene aerogel fabricated by bidirectional freeze drying for selective oil absorption. Carbon, 2018, 132, 199-209.	10.3	278
59	Manipulating the structure and mechanical properties of thermoplastic polyurethane/polycaprolactone hybrid small diameter vascular scaffolds fabricated via electrospinning using an assembled rotating collector. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 433-441.	3.1	42
60	Fabrication of scaffolds in tissue engineering: A review. Frontiers of Mechanical Engineering, 2018, 13, 107-119.	4.3	183
61	Magnetically driven superhydrophobic silica sponge decorated with hierarchical cobalt nanoparticles for selective oil absorption and oil/water separation. Chemical Engineering Journal, 2018, 337, 541-551.	12.7	112
62	Microcellular injection molding process for producing lightweight thermoplastic polyurethane with customizable properties. Frontiers of Mechanical Engineering, 2018, 13, 96-106.	4.3	13
63	Superhydrophobic Graphene/Cellulose/Silica Aerogel with Hierarchical Structure as Superabsorbers for High Efficiency Selective Oil Absorption and Recovery. Industrial & Engineering Chemistry Research, 2018, 57, 1745-1755.	3.7	69
64	Numerical study of mixing dynamics inside the novel elements of a corotating nontwin screw extruder. Advances in Polymer Technology, 2018, 37, 2478-2496.	1.7	8
65	Improving the processibility and mechanical properties of poly(lactic acid)/linear lowâ€density polyethylene/paraffin wax blends by subcritical gasâ€assisted processing. Polymer Engineering and Science, 2018, 58, 2320-2331.	3.1	5
66	Biocompatible, self-healing, highly stretchable polyacrylic acid/reduced graphene oxide nanocomposite hydrogel sensors via mussel-inspired chemistry. Carbon, 2018, 136, 63-72.	10.3	282
67	In situ synthesis of polyurethane scaffolds with tunable properties by controlled crosslinking of tri-block copolymer and polycaprolactone triol for tissue regeneration. Chemical Engineering Journal, 2018, 348, 786-798.	12.7	58
68	High-performance flexible triboelectric nanogenerator based on porous aerogels and electrospun nanofibers for energy harvesting and sensitive self-powered sensing. Nano Energy, 2018, 48, 327-336.	16.0	205
69	Interconnected porous poly(É›-caprolactone) tissue engineering scaffolds fabricated by microcellular injection molding. Journal of Cellular Plastics, 2018, 54, 379-397.	2.4	22
70	Effects of nanoclays on the thermal stability and flame retardancy of microcellular thermoplastic polyurethane nanocomposites. Polymer Composites, 2018, 39, E1429.	4.6	23
71	Fabrication of fibrous silica sponges by self-assembly electrospinning and their application in tissue engineering for three-dimensional tissue regeneration. Chemical Engineering Journal, 2018, 331, 652-662.	12.7	49
72	Novel polydimethylsiloxane (PDMS) composites reinforced with three-dimensional continuous silica fibers. Materials Letters, 2018, 210, 173-176.	2.6	18

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73	Development of biomimetic thermoplastic polyurethane/fibroin smallâ€diameter vascular grafts via a novel electrospinning approach. Journal of Biomedical Materials Research - Part A, 2018, 106, 985-996.	4.0	47
74	Mechanical properties, fiber orientation, and length distribution of glass fiberâ€reinforced polypropylene parts: Influence of waterâ€foaming technology. Polymer Composites, 2018, 39, 4386-4399.	4.6	31
75	Fabrication of polycaprolactone electrospun fibers with different hierarchical structures mimicking collagen fibrils for tissue engineering scaffolds. Applied Surface Science, 2018, 427, 311-325.	6.1	42
76	A Numerical Simulation of Enhanced Mixing of a Nonâ€Newtonian Fluid in a Cavity with Asymmetric Nonâ€Twin Rotors. Macromolecular Theory and Simulations, 2018, 27, 1800021.	1.4	2
77	Highly porous composite aerogel based triboelectric nanogenerators for high performance energy generation and versatile self-powered sensing. Nanoscale, 2018, 10, 23131-23140.	5.6	80
78	Defect diagnosis for polymeric samples via magnetic levitation. NDT and E International, 2018, 100, 175-182.	3.7	29
79	Modeling and characterization of crystallization during rapid heat cycle molding. Polymer Testing, 2018, 71, 182-191.	4.8	16
80	Applications of Core Retraction in Manufacturing Low-Density Polypropylene Foams with Microcellular Injection Molding. Frontiers in Forests and Global Change, 2018, 37, 1-20.	1.1	2
81	Effect of longitudinal periodic length on chaotic mixing in a lid-driven cavity flow system. Journal of Non-Newtonian Fluid Mechanics, 2018, 261, 81-98.	2.4	1
82	Core/shell structure of electrospun polycarbonate nanofibers. Polymer Testing, 2018, 70, 498-502.	4.8	5
83	Highly filled biochar/ultra-high molecular weight polyethylene/linear low density polyethylene composites for high-performance electromagnetic interference shielding. Composites Part B: Engineering, 2018, 153, 277-284.	12.0	72
84	Promoting endothelial cell affinity and antithrombogenicity of polytetrafluoroethylene (PTFE) by mussel-inspired modification and RGD/heparin grafting. Journal of Materials Chemistry B, 2018, 6, 3475-3485.	5.8	56
85	Triboelectric Nanogenerators Made of Porous Polyamide Nanofiber Mats and Polyimide Aerogel Film: Output Optimization and Performance in Circuits. ACS Applied Materials & Interfaces, 2018, 10, 30596-30606.	8.0	103
86	Polycaprolactone Nanofibers Containing Vascular Endothelial Growth Factor-Encapsulated Gelatin Particles Enhance Mesenchymal Stem Cell Differentiation and Angiogenesis of Endothelial Cells. Biomacromolecules, 2018, 19, 3747-3753.	5.4	47
87	Improved Processability and the Processing-Structure-Properties Relationship of Ultra-High Molecular Weight Polyethylene via Supercritical Nitrogen and Carbon Dioxide in Injection Molding. Polymers, 2018, 10, 36.	4.5	24
88	Highly Stretchable and Biocompatible Strain Sensors Based on Mussel-Inspired Super-Adhesive Self-Healing Hydrogels for Human Motion Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 20897-20909.	8.0	398
89	10.1063/1.5049236.1. , 2018, , .		0
90	Effect of a cross-linking agent on the foamability of microcellular injection molded thermoplastic polyurethane. Journal of Cellular Plastics, 2017, 53, 407-423.	2.4	16

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91	Comparative study of chemical and physical foaming methods for injection-molded thermoplastic polyurethane. Journal of Cellular Plastics, 2017, 53, 373-388.	2.4	25
92	Structural evolution of uniaxial tensile-deformed injection molded poly(É›-caprolactone)/hydroxyapatite composites. Polymer Composites, 2017, 38, 1771-1782.	4.6	4
93	Evaluation of Mixing Performance in Baffled Screw Channel Using Lagrangian Particle Calculations. Advances in Polymer Technology, 2017, 36, 86-97.	1.7	1
94	Post-crosslinkable biodegradable thermoplastic polyurethanes: Synthesis, and thermal, mechanical, and degradation properties. Materials and Design, 2017, 127, 106-114.	7.0	23
95	Sub-critical gas-assisted processing using CO 2 foaming to enhance the exfoliation of graphene in polypropyleneÂ+ graphene nanocomposites. Polymer, 2017, 117, 132-139.	3.8	43
96	Biocompatible, degradable thermoplastic polyurethane based on polycaprolactone-block-polytetrahydrofuran-block-polycaprolactone copolymers for soft tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4137-4151.	5.8	89
97	Aerogel microspheres based on cellulose nanofibrils as potential cell culture scaffolds. Cellulose, 2017, 24, 2791-2799.	4.9	30
98	Instantaneous self-assembly of three-dimensional silica fibers in electrospinning: Insights into fiber deposition behavior. Materials Letters, 2017, 204, 45-48.	2.6	46
99	Comprehensive study on cellular morphologies, proliferation, motility, and epithelialâ€“mesenchymal transition of breast cancer cells incubated on electrospun polymeric fiber substrates. Journal of Materials Chemistry B, 2017, 5, 2588-2600.	5.8	22
100	A composite generator film impregnated with cellulose nanocrystals for enhanced triboelectric performance. Nanoscale, 2017, 9, 1428-1433.	5.6	67
101	Comparative study of crystallization and lamellae orientation of isotactic polypropylene by rapid heat cycle molding and conventional injection molding. E-Polymers, 2017, 17, 71-81.	3.0	4
102	Controlling Superwettability by Microstructure and Surface Energy Manipulation on Three-Dimensional Substrates for Versatile Gravity-Driven Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 37529-37535.	8.0	43
103	Mussel-inspired electroactive chitosan/graphene oxide composite hydrogel with rapid self-healing and recovery behavior for tissue engineering. Carbon, 2017, 125, 557-570.	10.3	253
104	Fabrication of poly(Îµ-caprolactone) tissue engineering scaffolds with fibrillated and interconnected pores utilizing microcellular injection molding and polymer leaching. RSC Advances, 2017, 7, 43432-43444.	3.6	75
105	A multi-scale numerical simulation of the crystallisation and temperature field of glass. Molecular Physics, 2017, 115, 3024-3032.	1.7	3
106	Comparison between PCL/hydroxyapatite (HA) and PCL/halloysite nanotube (HNT) composite scaffolds prepared by co-extrusion and gas foaming. Materials Science and Engineering C, 2017, 72, 53-61.	7.3	73
107	Mechanical properties, crystallization characteristics, and foaming behavior of polytetrafluoroethylene-reinforced poly(lactic acid) composites. Polymer Engineering and Science, 2017, 57, 570-580.	3.1	44
108	Electrospun polycaprolactone/gelatin composites with enhanced cellâ€“matrix interactions as blood vessel endothelial layer scaffolds. Materials Science and Engineering C, 2017, 71, 901-908.	7.3	119

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109	Investigation of Thermal and Thermomechanical Properties of Biodegradable PLA/PBSA Composites Processed via Supercritical Fluid-Assisted Foam Injection Molding. Polymers, 2017, 9, 22.	4.5	37
110	Influence of Processing Conditions on the Morphological Structure and Ductility of Water-Foamed Injection Molded PP/LDPE Blended Parts. Frontiers in Forests and Global Change, 2017, 36, 51-74.	1.1	20
111	The effect of nanoclay on the crystallization behavior, microcellular structure, and mechanical properties of thermoplastic polyurethane nanocomposite foams. Polymer Engineering and Science, 2016, 56, 319-327.	3.1	51
112	Experimental study on the penetration interfaces of pipes with different cross-sections in overflow water-assisted coinjection molding. Journal of Applied Polymer Science, 2016, 133, n/a-n/a.	2.6	5
113	Biocompatible graphene nanosheets grafted with poly(2-hydroxyethyl methacrylate) brushes via surface-initiated ARGET ATRP. RSC Advances, 2016, 6, 35641-35647.	3.6	17
114	Carbon nanotube (CNT) and nanofibrillated cellulose (NFC) reinforcement effect on thermoplastic polyurethane (TPU) scaffolds fabricated via phase separation using dimethyl sulfoxide (DMSO) as solvent. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 62, 417-427.	3.1	39
115	Experimental study of penetration interfaces in the overflow fluid-assisted co-injection molding process. Journal of Polymer Engineering, 2016, 36, 139-148.	1.4	9
116	Fabrication of superâ€ductile PP/LDPE blended parts with a chemical blowing agent. Journal of Applied Polymer Science, 2016, 133, .	2.6	18
117	Fabrication of biocompatible nanohybrid shish-kebab-structured carbon nanotubes with a mussel-inspired layer. RSC Advances, 2016, 6, 101660-101670.	3.6	14
118	Approaches to Fabricating Multiple-Layered Vascular Scaffolds Using Hybrid Electrospinning and Thermally Induced Phase Separation Methods. Industrial & Engineering Chemistry Research, 2016, 55, 882-892.	3.7	48
119	Effects of nucleation and stereocomplex formation of poly(lactic acid). Journal of Polymer Engineering, 2016, 36, 673-679.	1.4	9
120	Water-assisted compounding of cellulose nanocrystals into polyamide 6 for use as a nucleating agent for microcellular foaming. Polymer, 2016, 84, 158-166.	3.8	53
121	Dual-scale modeling and simulation of film casting of isotactic polypropylene. Journal of Plastic Film and Sheeting, 2016, 32, 239-271.	2.2	21
122	The surface grafting of graphene oxide with poly(ethylene glycol) as a reinforcement for poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Mechanical Behavior of Biomedical Materials, 2016, 53, 403-413.	3.1	136
123	Dual-Scale Modeling and Simulation of Skin Layer Thickness in Injection Molding with Variable Mold Temperatures. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7125-7136.	0.4	0
124	In vitro evaluations of electrospun nanofiber scaffolds composed of poly(É›-caprolactone) and polyethylenimine. Journal of Materials Research, 2015, 30, 1808-1819.	2.6	23
125	Oriented polyvinyl alcohol films using short cellulose nanofibrils as a reinforcement. Journal of Applied Polymer Science, 2015, 132, .	2.6	10
126	Numerical simulation on residual thickness of pipes with curved sections in waterâ€assisted coâ€injection molding. Journal of Applied Polymer Science, 2015, 132, .	2.6	9

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127	Crystallization measurements via ultrasonic velocity: Study of poly(lactic acid) parts. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 700-708.	2.1	35
128	Novel foaming method to fabricate microcellular injection molded polycarbonate parts using sodium chloride and active carbon as nucleating agents. Polymer Engineering and Science, 2015, 55, 1634-1642.	3.1	12
129	Fabrication of highly expanded thermoplastic polyurethane foams using microcellular injection molding and gas-laden pellets. Polymer Engineering and Science, 2015, 55, 2643-2652.	3.1	37
130	Topological Chaos by Pseudo-Anosov Map in Cavity Laminar Mixing. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	2
131	Electrospinning thermoplastic polyurethane/graphene oxide scaffolds for small diameter vascular graft applications. Materials Science and Engineering C, 2015, 49, 40-50.	7.3	122
132	Electrospun aligned poly(propylene carbonate) microfibers with chitosan nanofibers as tissue engineering scaffolds. Carbohydrate Polymers, 2015, 117, 941-949.	10.2	76
133	Incorporation of poly(ethylene glycol) grafted cellulose nanocrystals in poly(lactic acid) electrospun nanocomposite fibers as potential scaffolds for bone tissue engineering. Materials Science and Engineering C, 2015, 49, 463-471.	7.3	137
134	A novel method of producing lightweight microcellular injection molded parts with improved ductility and toughness. Polymer, 2015, 56, 102-110.	3.8	100
135	Shish-Kebab-Structured Poly(Îµ-Caprolactone) Nanofibers Hierarchically Decorated with Chitosanâ€“Poly(Îµ-Caprolactone) Copolymers for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2015, 7, 6955-6965.	8.0	126
136	Enhancing Nanofiller Dispersion Through Prefoaming and Its Effect on the Microstructure of Microcellular Injection Molded Polylactic Acid/Clay Nanocomposites. Industrial & Engineering Chemistry Research, 2015, 54, 7122-7130.	3.7	34
137	Fabrication of polylactic acid/polyethylene glycol (<scp>PLA</scp>/<scp>PEG</scp>) porous scaffold by supercritical <scp>CO</scp>₂ foaming and particle leaching. Polymer Engineering and Science, 2015, 55, 1339-1348.	3.1	48
138	Hierarchically decorated electrospun poly($$ varepsilon $$ Îµ -caprolactone)/nanohydroxyapatite composite nanofibers for bone tissue engineering. Journal of Materials Science, 2015, 50, 4174-4186.	3.7	17
139	The morphology, properties, and shape memory behavior of polylactic acid/thermoplastic polyurethane blends. Polymer Engineering and Science, 2015, 55, 70-80.	3.1	106
140	Enhancement of mixing by different baffle arrays in cavity flows. Chemical Engineering Science, 2015, 137, 837-851.	3.8	5
141	Fabrication of triple-layered vascular scaffolds by combining electrospinning, braiding, and thermally induced phase separation. Materials Letters, 2015, 161, 305-308.	2.6	34
142	Fabrication of porous synthetic polymer scaffolds for tissue engineering. Journal of Cellular Plastics, 2015, 51, 165-196.	2.4	52
143	Electrospinning of unidirectionally and orthogonally aligned thermoplastic polyurethane nanofibers: Fiber orientation and cell migration. Journal of Biomedical Materials Research - Part A, 2015, 103, 593-603.	4.0	69
144	Fracture toughness assessment of polypropylene random copolymer with multiple stress modes using the essential work of fracture theory. Polymer Testing, 2015, 41, 73-81.	4.8	5

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145	Properties and fibroblast cellular response of soft and hard thermoplastic polyurethane electrospun nanofibrous scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 960-970.	3.4	30
146	Fabrication of thermoplastic polyurethane tissue engineering scaffold by combining microcellular injection molding and particle leaching. Journal of Materials Research, 2014, 29, 911-922.	2.6	42
147	Microcellular injection molding of in situ modified poly(ethylene terephthalate) with supercritical nitrogen. Polymer Engineering and Science, 2014, 54, 2739-2745.	3.1	11
148	Fabrication of Porous Poly(Îµ-caprolactone) Scaffolds Containing Chitosan Nanofibers by Combining Extrusion Foaming, Leaching, and Freeze-Drying Methods. Industrial & Engineering Chemistry Research, 2014, 53, 17909-17918.	3.7	46
149	Chaotic mixing in a single-screw extruder with a moving internal baffle. Polymer Engineering and Science, 2014, 54, 198-207.	3.1	9
150	Novel injection molding foaming approaches using gasâ€laden pellets with N₂, CO₂, and N₂ + CO₂ as the blowing agents. Polymer Engineering and Science, 2014, 54, 899-913.	3.1	30
151	Microcellular injection molding of recycled poly(ethylene terephthalate) blends with chain extenders and nanoclay. Journal of Polymer Engineering, 2014, 34, 5-13.	1.4	17
152	Morphology, mechanical properties, and mineralization of rigid thermoplastic polyurethane/hydroxyapatite scaffolds for bone tissue applications: effects of fabrication approaches and hydroxyapatite size. Journal of Materials Science, 2014, 49, 2324-2337.	3.7	60
153	Short cellulose nanofibrils as reinforcement in polyvinyl alcohol fiber. Cellulose, 2014, 21, 4287-4298.	4.9	51
154	Fabrication of shishâ€“kebab structured poly(Îµ-caprolactone) electrospun nanofibers that mimic collagen fibrils: Effect of solvents and matrigel functionalization. Polymer, 2014, 55, 5396-5406.	3.8	28
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