

Donggaang Yao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,528
citations

20
h-index

35
g-index

104
ext. papers

1,676
ext. citations

3.2
avg, IF

4.91
L-index

#	Paper	IF	Citations
94	Simulation of the filling process in micro channels for polymeric materials. <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, 604-610	2	138
93	Development of rapid heating and cooling systems for injection molding applications. <i>Polymer Engineering and Science</i> , 2002 , 42, 2471-2481	2.3	113
92	High-frequency proximity heating for injection molding applications. <i>Polymer Engineering and Science</i> , 2006 , 46, 938-945	2.3	86
91	Rapid thermal cycling of injection molds: An overview on technical approaches and applications. <i>Advances in Polymer Technology</i> , 2008 , 27, 233-255	1.9	73
90	Preparation of single poly(lactic acid) composites. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2909-2916	2.1	68
89	Rapid hot embossing of polymer microfeatures. <i>Microsystem Technologies</i> , 2006 , 12, 730-735	1.7	58
88	Scaling Issues in Miniaturization of Injection Molded Parts. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004 , 126, 733-739	3.3	58
87	Chondrogenic derivatives of embryonic stem cells seeded into 3D polycaprolactone scaffolds generated cartilage tissue in vivo. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1403-13	3.9	51
86	Controllable growth of gradient porous structures. <i>Biomacromolecules</i> , 2009 , 10, 1282-6	6.9	50
85	INCREASING FLOW LENGTH IN THIN WALL INJECTION MOLDING USING A RAPIDLY HEATED MOLD. <i>Polymer-Plastics Technology and Engineering</i> , 2002 , 41, 819-832		49
84	Single-polymer composites based on slowly crystallizing polymers. <i>Polymer Engineering and Science</i> , 2006 , 46, 1223-1230	2.3	45
83	Study on squeezing flow during nonisothermal embossing of polymer microstructures. <i>Polymer Engineering and Science</i> , 2005 , 45, 652-660	2.3	40
82	Injection Molding Nanoscale Features with the Aid of Induction Heating. <i>Polymer-Plastics Technology and Engineering</i> , 2007 , 46, 1031-1037		34
81	A novel process for continuous thermal embossing of large-area nanopatterns onto polymer films. <i>Advances in Polymer Technology</i> , 2009 , 28, 246-256	1.9	33
80	Compression Induced Chondrogenic Differentiation of Embryonic Stem Cells in Three-Dimensional Polydimethylsiloxane Scaffolds. <i>Tissue Engineering - Part A</i> , 2017 , 23, 426-435	3.9	29
79	Replication of Microstructures by Roll-to-Roll UV-Curing Embossing. <i>Polymer-Plastics Technology and Engineering</i> , 2008 , 47, 865-873		27
78	Rapid pattern transfer of biomimetic surface structures onto thermoplastic polymers. <i>Materials Science and Engineering C</i> , 2007 , 27, 794-797	8.3	24

77	A two-station embossing process for rapid fabrication of surface microstructures on thermoplastic polymers. <i>Polymer Engineering and Science</i> , 2007 , 47, 530-539	2.3	24
76	A microlens array on curved substrates by 3D micro projection and reflow process. <i>Sensors and Actuators A: Physical</i> , 2012 , 179, 242-250	3.9	23
75	Fabrication of polycaprolactone scaffolds using a sacrificial compression-molding process. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 287-95	3.5	22
74	Rubber-assisted micro forming of polymer thin films. <i>Microsystem Technologies</i> , 2009 , 15, 251-257	1.7	20
73	Numerical Simulation for Injection Molding with a Rapidly Heated Mold, Part I: Flow Simulation for Thin Wall Parts. <i>Polymer-Plastics Technology and Engineering</i> , 2006 , 45, 897-902		20
72	Anthraquinone chromophore covalently bonded blocked waterborne polyurethanes: synthesis and application. <i>RSC Advances</i> , 2015 , 5, 30631-30639	3.7	19
71	Synthesis of blocked waterborne polyurethane polymeric dyes with tailored molecular weight: thermal, rheological and printing properties. <i>RSC Advances</i> , 2016 , 6, 56831-56838	3.7	17
70	Gel spinning of UHMWPE fibers with polybutene as a new spin solvent. <i>Polymer Engineering and Science</i> , 2016 , 56, 697-706	2.3	17
69	Numerical Simulation for Injection Molding with a Rapidly Heated Mold, Part II: Birefringence Prediction. <i>Polymer-Plastics Technology and Engineering</i> , 2006 , 45, 903-909		15
68	Developing rapid heating and cooling systems using pyrolytic graphite. <i>Applied Thermal Engineering</i> , 2003 , 23, 341-352	5.8	15
67	Insert injection molding of polypropylene single-polymer composites. <i>Composites Science and Technology</i> , 2015 , 106, 47-54	8.6	14
66	Fabrication of interconnected microporous biomaterials with high hydroxyapatite nanoparticle loading. <i>Biofabrication</i> , 2010 , 2, 035006	10.5	14
65	Study of the Curing Kinetics toward Development of Fast-Curing Epoxy Resins. <i>Polymer-Plastics Technology and Engineering</i> , 2017 , 56, 161-170		12
64	Processing of composite polystyrene foam with a honeycomb structure. <i>Polymer Engineering and Science</i> , 2015 , 55, 1494-1503	2.3	12
63	Uniform shell patterning using rubber-assisted hot embossing process. I. Experimental. <i>Polymer Engineering and Science</i> , 2011 , 51, 592-600	2.3	12
62	Geometrical confining effects in compression molding of co-continuous polymer blends. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 1954-64	4.7	12
61	Development of a gel spinning process for high-strength poly(ethylene oxide) fibers. <i>Polymer Engineering and Science</i> , 2014 , 54, 2839-2847	2.3	11
60	Porogen Templating Processes: An Overview. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014 , 136,	3.3	11

59	Removal of spandex from nylon/spandex blended fabrics by selective polymer degradation. <i>Textile Reseach Journal</i> , 2014 , 84, 16-27	1.7	11
58	Uniform shell patterning using rubber-assisted hot embossing process. II. Process analysis. <i>Polymer Engineering and Science</i> , 2011 , 51, 601-608	2.3	10
57	Hot embossing of discrete microparts. <i>Polymer Engineering and Science</i> , 2009 , 49, 1894-1901	2.3	9
56	A Strategy for Rapid Thermal Cycling of Molds in Thermoplastic Processing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006 , 128, 837-843	3.3	9
55	Mechanisms and modeling of electrohydrodynamic phenomena. <i>International Journal of Bioprinting</i> , 2019 , 5, 166	6.2	9
54	A fractional dashpot for nonlinear viscoelastic fluids. <i>Journal of Rheology</i> , 2018 , 62, 619-629	4.1	8
53	A non-Newtonian fluid model with finite stretch and rotational recovery. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016 , 230, 12-18	2.7	8
52	Extrusion Roller Imprinting with a Variotherm Belt Mold. <i>Machines</i> , 2014 , 2, 299-311	2.9	8
51	Melt spinning of continuous fibers by cold air attenuation I: experimental studies. <i>Textile Reseach Journal</i> , 2014 , 84, 593-603	1.7	8
50	An enlarged process window for hot embossing. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 045023	2	8
49	Cold forging method for polymer microfabrication. <i>Polymer Engineering and Science</i> , 2004 , 44, 1998-2004.	2.3	8
48	A new method for formulating linear viscoelastic models. <i>International Journal of Engineering Science</i> , 2020 , 156, 103375	5.7	8
47	A non-Newtonian fluid model with an objective vorticity. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015 , 218, 99-105	2.7	7
46	Rapid Vacuum Infusion and Curing of Epoxy Composites with a Rubber-Cushioned Mold Design. <i>Polymer-Plastics Technology and Engineering</i> , 2016 , 55, 1030-1038		7
45	Processing properties of polypropylene with a minor addition of silicone oil. <i>Polymer Engineering and Science</i> , 2010 , 50, 1340-1349	2.3	7
44	Microwave processing of syntactic foam from an expandable thermoset/thermoplastic mixture. <i>Polymer Engineering and Science</i> , 2015 , 55, 1818-1828	2.3	6
43	Challenges and Advances in Aerosol Jet Printing of Regenerated Silk Fibroin Solutions. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902005	4.6	6
42	Fabrication of Interconnected Porous Elastomers by a Microsphere-Templating Process. <i>Advances in Polymer Technology</i> , 2013 , 32,	1.9	6

41	Fast solvent removal by mechanical twisting for gel spinning of ultrastrong fibers. <i>Polymer Engineering and Science</i> , 2015 , 55, 745-752	2.3	6
40	Mechanical behavior of porous polysiloxane with micropores interconnected by microchannels. <i>Polymer Engineering and Science</i> , 2014 , 54, 1512-1522	2.3	6
39	Through-thickness embossing process for fabrication of three-dimensional thermoplastic parts. <i>Polymer Engineering and Science</i> , 2007 , 47, 2075-2084	2.3	6
38	Reversibly Superwetable Polyester Fabric Based on pH-Responsive Branched Polymer Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2899-2907	3.9	6
37	Super stretchable chromatic polyurethane driven by anthraquinone chromogen as a chain extender.. <i>RSC Advances</i> , 2019 , 9, 2332-2342	3.7	5
36	Melt spinning of high-strength fiber from low-molecular-weight polypropylene. <i>Polymer Engineering and Science</i> , 2016 , 56, 233-239	2.3	5
35	An effective method of processing immiscible polymer blends into strong fiber. <i>Polymer Engineering and Science</i> , 2019 , 59, 2052-2061	2.3	5
34	Bicomponent Fibers 2020 , 281-313		5
33	Tribological and thermomechanical properties of epoxy-matrix nanocomposites containing montmorillonite nanoclay intercalated with polybutadiene-based quaternary ammonium salt. <i>Plastics, Rubber and Composites</i> , 2020 , 49, 389-399	1.5	4
32	Direct drawing of gel fibers enabled by twist-gel spinning process. <i>Polymer Engineering and Science</i> , 2015 , 55, 1389-1395	2.3	4
31	An effective and simple process for obtaining high strength silkworm (<i>Bombyx mori</i>) silk fiber. <i>Fibers and Polymers</i> , 2015 , 16, 2609-2616	2	4
30	Recycling of Polyethylene Bags into High-Strength Yarns Without Using Melt Processing. <i>Polymer Engineering and Science</i> , 2020 , 60, 281-287	2.3	4
29	Processing of viscoelastic data via a generalized fractional model. <i>International Journal of Engineering Science</i> , 2021 , 161, 103465	5.7	4
28	Fabrication of high-strength polyoxymethylene fibers by gel spinning. <i>Journal of Materials Science</i> , 2018 , 53, 11901-11916	4.3	4
27	Melt spinning of continuous fibers by cold air attenuation: II. Theoretical modeling. <i>Textile Research Journal</i> , 2014 , 84, 604-613	1.7	3
26	Rubber-assisted embossing of polymer thin films using molds with through-thickness microchannels. <i>Microsystem Technologies</i> , 2012 , 18, 481-488	1.7	3
25	Polymer Micro-Molding/Forming Processes 2011 , 197-233		3
24	Constitutive modeling of complex interfaces based on a differential interfacial energy function. <i>Rheologica Acta</i> , 2011 , 50, 199-206	2.3	3

23	Fusion bonding of supercooled poly(ethylene terephthalate) between T _g and T _m . <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3101-3112	2.9	3
22	Injection Molding Poly(Para-phenylene) with a Rapidly Heated Mold. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 1008-1013		3
21	Thermal, mechanical, and tribological properties of epoxy polymer/EPU blends reinforced by low concentration of octaaminophenyl POSS. <i>Polymer Engineering and Science</i> , 2021 , 61, 780-792	2.3	3
20	Organic/inorganic hybrid nanostructured composites of liquid nitrile rubber-based quaternary ammonium salt-modified montmorillonite and epoxy resin: preparation and tribological behaviors. <i>Polymer Composites</i> , 2020 , 41, 1711-1720	3	3
19	Modeling of expandable polystyrene expansion. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	3
18	Experimental and numerical study of microchannel formation in rubber-assisted hot embossing with an open-channel mold. <i>Microsystem Technologies</i> , 2017 , 23, 1221-1227	1.7	2
17	Maxwell models with relaxation in logarithmic strains 2015 ,		2
16	A visco-hyperelastic formulation for the rheology of immiscible blends. <i>Journal of Rheology</i> , 2012 , 56, 767-795	4.1	2
15	Design and Verification of the Pressure-Driven Radial Flow Microrheometer. <i>Tribology Transactions</i> , 2008 , 51, 396-402	1.8	2
14	Cold forging behavior of semicrystalline polymers. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 764-771	2.9	2
13	Aerosol Jet Printing: Challenges and Advances in Aerosol Jet Printing of Regenerated Silk Fibroin Solutions (Adv. Mater. Interfaces 12/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070065	4.6	2
12	Dynamics and rheology of finitely extensible polymer coils: An overview 2017 ,		1
11	A Simple Process for Making Supercontraction Fiber From Polycaprolactone/Elastomer Blends. <i>Polymer Engineering and Science</i> , 2020 , 60, 793-801	2.3	1
10	Injection Molding at Multiscales 2019 , 89-136		1
9	Micropatterning of Porous Structures from Co/Continuous Polymer Blends. <i>Advances in Polymer Technology</i> , 2013 , 32, E166-E179	1.9	1
8	Twist-film gel spinning of large-diameter high-performance ultra-high molecular weight polyethylene monofilaments. <i>Textile Research Journal</i> , 2017 , 87, 2323-2336	1.7	1
7	Constant-temperature embossing of supercooled polymer films. <i>Polymer Engineering and Science</i> , 2014 , 54, 1100-1112	2.3	1
6	Constant Temperature Embossing of PEEK Films 2013 ,		1

5	Rubber-Assisted Hot Embossing for Structuring Thin Polymer Film Polymeric Films 2006 , 217		1
4	Toward Making Poly(ethylene terephthalate) Degradable in Aqueous Environment. <i>Macromolecular Materials and Engineering</i> ,2100832	3.9	1
3	Scale-Up Synthesis of High Purity Calcium Terephthalate from Polyethylene Terephthalate Waste: Purification, Characterization, and Quantification. <i>Macromolecular Materials and Engineering</i> ,2100591	3.9	1
2	From semisolid metal processing to thixotropic 3D printing of metallic alloys. <i>Virtual and Physical Prototyping</i> ,1-19	10.1	0
1	Polymer and Composite Processing 2019 , 383-417		