

# Nemat Hossieny

## List of Publications by Year in descending order

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374  
papers

22,578  
citations

6233

80  
h-index

16127

124  
g-index

380  
all docs

380  
docs citations

380  
times ranked

8713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(lactic acid) crystallization. Progress in Polymer Science, 2012, 37, 1657-1677.	11.8	1,190
2	Poly (lactic acid) foaming. Progress in Polymer Science, 2014, 39, 1721-1741.	11.8	401
3	Effect of the pressure drop rate on cell nucleation in continuous processing of microcellular polymers. Polymer Engineering and Science, 1995, 35, 432-440.	1.5	377
4	Lightweight Polypropylene/Stainless-Steel Fiber Composite Foams with Low Percolation for Efficient Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2014, 6, 11091-11100.	4.0	295
5	A study of cell nucleation in the extrusion of polypropylene foams. Polymer Engineering and Science, 1997, 37, 1-10.	1.5	285
6	Flexible, Ultrathin, and High-Efficiency Electromagnetic Shielding Properties of Poly(Vinylidene Fluoride)/Carbon Nanotube Composites. ACS Applied Materials & Interfaces, 2014, 6, 11091-11100.	4.0	264
7	Low density microcellular foam processing in extrusion using CO <sub>2</sub> . Polymer Engineering and Science, 1998, 38, 1812-1823.	1.5	248
8	Strategies for achieving ultra low-density polypropylene foams. Polymer Engineering and Science, 2002, 42, 1481-1492.	1.5	243
9	Ultralow-Threshold and Lightweight Biodegradable Porous PLA/MWCNT with Segregated Conductive Networks for High-Performance Thermal Insulation and Electromagnetic Interference Shielding Applications. ACS Applied Materials & Interfaces, 2018, 10, 1195-1203.	4.0	241
10	Fundamental foaming mechanisms governing the volume expansion of extruded polypropylene foams. Journal of Applied Polymer Science, 2004, 91, 2661-2668.	1.3	236
11	Cell morphology and property relationships of microcellular foamed pvc/wood-fiber composites. Polymer Engineering and Science, 1998, 38, 1862-1872.	1.5	223
12	A microcellular processing study of poly(ethylene terephthalate) in the amorphous and semicrystalline states. Part I: Microcell nucleation. Polymer Engineering and Science, 1996, 36, 1437-1445.	1.5	207
13	Past and present developments in polymer bead foams and bead foaming technology. Polymer, 2015, 56, 5-19.	1.8	189
14	Advances in electromagnetic shielding properties of composite foams. Journal of Materials Chemistry A, 2021, 9, 8896-8949.	5.2	184
15	Processing and cell morphology relationships for microcellular foamed PVC/wood-fiber composites. Polymer Engineering and Science, 1997, 37, 1137-1147.	1.5	180
16	Crystallization Kinetics of Linear and Long-Chain-Branched Polylactide. Industrial & Engineering Chemistry Research, 2011, 50, 13789-13798.	1.8	179
17	Effects of die geometry on cell nucleation of PS foams blown with CO <sub>2</sub> . Polymer Engineering and Science, 2003, 43, 1378-1390.	1.5	176
18	Mechanism of extensional stress-induced cell formation in polymeric foaming processes with the presence of nucleating agents. Journal of Supercritical Fluids, 2012, 63, 187-198.	1.6	174

#	ARTICLE	IF	CITATIONS
19	Fundamental mechanisms of cell nucleation in polypropylene foaming with supercritical carbon dioxide—Effects of extensional stresses and crystals. <i>Journal of Supercritical Fluids</i> , 2013, 79, 142-151.	1.6	174
20	Synergism between carbon materials and Ni chains in flexible poly(vinylidene fluoride) composite films with high heat dissipation to improve electromagnetic shielding properties. <i>Carbon</i> , 2018, 127, 469-478.	5.4	169
21	Ultra-tough and super thermal-insulation nanocellular PMMA/TPU. <i>Chemical Engineering Journal</i> , 2017, 325, 632-646.	6.6	165
22	Incorporating a microcellular structure into PVDF/graphene—nanoplatelet composites to tune their electrical conductivity and electromagnetic interference shielding properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10292-10300.	2.7	165
23	Filamentary extrusion of microcellular polymers using a rapid decompressive element. <i>Polymer Engineering and Science</i> , 1996, 36, 34-48.	1.5	161
24	High thermal insulation and compressive strength polypropylene foams fabricated by high-pressure foam injection molding and mold opening of nano-fibrillar composites. <i>Materials and Design</i> , 2017, 131, 1-11.	3.3	161
25	Influence of interfacial interactions on the properties of PVC/cellulosic fiber composites. <i>Polymer Composites</i> , 1998, 19, 446-455.	2.3	158
26	Heat transfer in microcellular polystyrene/multi-walled carbon nanotube nanocomposite foams. <i>Carbon</i> , 2015, 93, 819-829.	5.4	158
27	Continuous processing of low-density, microcellular poly(lactic acid) foams with controlled cell morphology and crystallinity. <i>Chemical Engineering Science</i> , 2012, 75, 390-399.	1.9	157
28	Poly(lactic acid)-Based in Situ Microfibrillar Composites with Enhanced Crystallization Kinetics, Mechanical Properties, Rheological Behavior, and Foaming Ability. <i>Biomacromolecules</i> , 2015, 16, 3925-3935.	2.6	157
29	Enhanced Electrical and Electromagnetic Interference Shielding Properties of Polymer—Graphene Nanoplatelet Composites Fabricated via Supercritical-Fluid Treatment and Physical Foaming. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30752-30761.	4.0	156
30	Extruded PLA/clay nanocomposite foams blown with supercritical CO <sub>2</sub> . <i>Polymer</i> , 2014, 55, 4077-4090.	1.8	155
31	Lightweight and tough nanocellular PP/PTFE nanocomposite foams with defect-free surfaces obtained using in situ nanofibrillation and nanocellular injection molding. <i>Chemical Engineering Journal</i> , 2018, 350, 1-11.	6.6	154
32	Measurements and modeling of PS/supercritical CO <sub>2</sub> solution viscosities. <i>Polymer Engineering and Science</i> , 1999, 39, 99-109.	1.5	152
33	Effects of nano-/micro-sized additives on the crystallization behaviors of PLA and PLA/CO <sub>2</sub> mixtures. <i>Polymer</i> , 2013, 54, 2382-2391.	1.8	150
34	Extruded Open-Cell Foams Using Two Semicrystalline Polymers with Different Crystallization Temperatures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 175-181.	1.8	148
35	Cell Structure Evolution and the Crystallization Behavior of Polypropylene/Clay Nanocomposites Foams Blown in Continuous Extrusion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 9834-9845.	1.8	147
36	Microcellular extrusion—foaming of polylactide with chain—extender. <i>Polymer Engineering and Science</i> , 2009, 49, 1653-1660.	1.5	146

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37	Superhydrophobic and Oleophilic Open-Cell Foams from Fibrillar Blends of Polypropylene and Polytetrafluoroethylene. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 21131-21140.	4.0	145
38	Development of polylactide bead foams with double crystal melting peaks. <i>Polymer</i> , 2015, 69, 83-94.	1.8	142
39	Synthesis and processing of PMMA carbon nanotube nanocomposite foams. <i>Polymer</i> , 2010, 51, 655-664.	1.8	141
40	Tunable electromagnetic shielding properties of conductive poly(vinylidene fluoride)/Ni chain composite films with negative permittivity. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6954-6961.	2.7	139
41	Lightweight and flexible graphene/SiC-nanowires/ poly(vinylidene fluoride) composites for electromagnetic interference shielding and thermal management. <i>Carbon</i> , 2020, 156, 58-66.	5.4	138
42	Low-density and structure-tunable microcellular PMMA foams with improved thermal-insulation and compressive mechanical properties. <i>European Polymer Journal</i> , 2017, 95, 382-393.	2.6	136
43	Injection-molded microcellular PLA/graphite nanocomposites with dramatically enhanced mechanical and electrical properties for ultra-efficient EMI shielding applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6847-6859.	2.7	136
44	A microcellular processing study of poly(ethylene terephthalate) in the amorphous and semicrystalline states. Part II: Cell growth and process design. <i>Polymer Engineering and Science</i> , 1996, 36, 1446-1453.	1.5	129
45	Development of PLA/cellulosic fiber composite foams using injection molding: Crystallization and foaming behaviors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 83, 130-139.	3.8	129
46	Advanced bimodal polystyrene/multi-walled carbon nanotube nanocomposite foams for thermal insulation. <i>Carbon</i> , 2017, 120, 1-10.	5.4	124
47	Modelling of thermal transport through a nanocellular polymer foam: toward the generation of a new superinsulating material. <i>Nanoscale</i> , 2017, 9, 5996-6009.	2.8	124
48	Tailoring poly(lactic acid) for packaging applications via the production of fully bio-based in situ microfibrillar composite films. <i>Chemical Engineering Journal</i> , 2017, 308, 772-782.	6.6	123
49	Achieving wideband microwave absorption properties in PVDF nanocomposite foams with an ultra-low MWCNT content by introducing a microcellular structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 58-70.	2.7	120
50	In situ fibrillation of CO <sub>2</sub> -philic polymers: Sustainable route to polymer foams in a continuous process. <i>Polymer</i> , 2013, 54, 4645-4652.	1.8	118
51	Development of high thermal insulation and compressive strength BPP foams using mold-opening foam injection molding with in-situ fibrillated PTFE fibers. <i>European Polymer Journal</i> , 2018, 98, 1-10.	2.6	117
52	Enhanced Thermal Conductivity of Graphene Nanoplatelet-Polymer Nanocomposites Fabricated via Supercritical Fluid-Assisted in Situ Exfoliation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1225-1236.	4.0	114
53	Double Crystal Melting Peak Generation for Expanded Polypropylene Bead Foam Manufacturing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 2297-2303.	1.8	113
54	Effect of surface properties on the adhesion between PVC and wood veneer laminates. <i>Polymer Engineering and Science</i> , 1998, 38, 765-773.	1.5	112

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55	Use of stereocomplex crystallites for fully-biobased microcellular low-density poly(lactic acid) foams for green packaging. <i>Chemical Engineering Journal</i> , 2017, 327, 1151-1162.	6.6	112
56	An Effective Design Strategy for the Sandwich Structure of PVDF/GNP-Ni-CNT Composites with Remarkable Electromagnetic Interference Shielding Effectiveness. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36568-36577.	4.0	112
57	Extrusion of PE/PS blends with supercritical carbon dioxide. <i>Polymer Engineering and Science</i> , 1998, 38, 1112-1120.	1.5	111
58	The construction of carbon-coated Fe <sub>3</sub> O <sub>4</sub> yolk-shell nanocomposites based on volume shrinkage from the release of oxygen anions for wide-band electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 307-317.	5.0	111
59	A versatile foaming platform to fabricate polymer/carbon composites with high dielectric permittivity and ultra-low dielectric loss. <i>Journal of Materials Chemistry A</i> , 2019, 7, 133-140.	5.2	111
60	Poly(vinylidene fluoride) foams: a promising low- $\kappa$ dielectric and heat-insulating material. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3065-3073.	2.7	110
61	Change in the critical nucleation radius and its impact on cell stability during polymeric foaming processes. <i>Chemical Engineering Science</i> , 2009, 64, 4899-4907.	1.9	109
62	The effects of extensional stresses on the foamability of polystyrene-talc composites blown with carbon dioxide. <i>Chemical Engineering Science</i> , 2012, 75, 49-62.	1.9	109
63	A facile method to increase the charge storage capability of polymer nanocomposites. <i>Nano Energy</i> , 2015, 15, 54-65.	8.2	108
64	Fiber-spun polypropylene/polyethylene terephthalate microfibrillar composites with enhanced tensile and rheological properties and foaming ability. <i>Polymer</i> , 2017, 110, 139-148.	1.8	103
65	Strong and super thermally insulating in-situ nanofibrillar PLA/PET composite foam fabricated by high-pressure microcellular injection molding. <i>Chemical Engineering Journal</i> , 2020, 390, 124520.	6.6	103
66	Glass fiber reinforced PLA composite with enhanced mechanical properties, thermal behavior, and foaming ability. <i>Polymer</i> , 2019, 181, 121803.	1.8	102
67	A novel technology to manufacture biodegradable polylactide bead foam products. <i>Materials and Design</i> , 2015, 83, 413-421.	3.3	101
68	Strong and thermal-resistance glass fiber-reinforced polylactic acid (PLA) composites enabled by heat treatment. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 448-459.	3.6	101
69	An extrusion system for the processing of microcellular polymer sheets: Shaping and cell growth control. <i>Polymer Engineering and Science</i> , 1996, 36, 1425-1435.	1.5	99
70	Advances in precursor system for silica-based aerogel production toward improved mechanical properties, customized morphology, and multifunctionality: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 276, 102101.	7.0	99
71	A Microcellular Foaming Simulation System with a High Pressure-Drop Rate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 6153-6161.	1.8	95
72	Crystallization of hard segment domains with the presence of butane for microcellular thermoplastic polyurethane foams. <i>Polymer</i> , 2014, 55, 651-662.	1.8	94

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73	Surface-engineered sponges for recovery of crude oil microdroplets from wastewater. <i>Nature Sustainability</i> , 2020, 3, 136-143.	11.5	94
74	Role of elastic strain energy in cell nucleation of polymer foaming and its application for fabricating sub-microcellular TPU microfilms. <i>Polymer</i> , 2017, 119, 28-39.	1.8	91
75	Facile production of biodegradable PCL/PLA in situ nanofibrillar composites with unprecedented compatibility between the blend components. <i>Chemical Engineering Journal</i> , 2018, 351, 976-984.	6.6	88
76	The effect of low levels of plasticizer on the rheological and mechanical properties of polyvinyl chloride/newsprint-fiber composites. <i>Journal of Vinyl and Additive Technology</i> , 1997, 3, 265-273.	1.8	85
77	Foaming of PS/wood fiber composites using moisture as a blowing agent. <i>Polymer Engineering and Science</i> , 2000, 40, 2124-2132.	1.5	85
78	Comparison of melting and crystallization behaviors of polylactide under high-pressure CO <sub>2</sub> , N <sub>2</sub> , and He. <i>Polymer</i> , 2013, 54, 6471-6478.	1.8	85
79	Fabrication of Open-Cell, Microcellular Silicon Carbide Ceramics by Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2949-2951.	1.9	84
80	Dispersed polypropylene fibrils improve the foaming ability of a polyethylene matrix. <i>Polymer</i> , 2014, 55, 4199-4205.	1.8	83
81	Rheological and foaming behavior of linear and branched polylactides. <i>Rheologica Acta</i> , 2014, 53, 779-790.	1.1	81
82	Tuning viscoelastic and crystallization properties of polypropylene containing in-situ generated high aspect ratio polyethylene terephthalate fibrils. <i>Polymer</i> , 2015, 68, 83-91.	1.8	80
83	Steam-Chest Molding of Expanded Polypropylene Foams. 2. Mechanism of Interbead Bonding. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 5523-5531.	1.8	79
84	Ultralight Microcellular Polymer-Graphene Nanoplatelet Foams with Enhanced Dielectric Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19987-19998.	4.0	79
85	Strategies to Achieve a Uniform Cell Structure with a High Void Fraction in Advanced Structural Foam Molding. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 9457-9464.	1.8	77
86	A batch foaming visualization system with extensional stress-inducing ability. <i>Chemical Engineering Science</i> , 2011, 66, 55-63.	1.9	77
87	Mechanisms of nanoclay-enhanced plastic foaming processes: effects of nanoclay intercalation and exfoliation. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	77
88	Novel separator skimmer for oil spill cleanup and oily wastewater treatment: From conceptual system design to the first pilot-scale prototype development. <i>Environmental Technology and Innovation</i> , 2020, 18, 100598.	3.0	77
89	Layered Foam/Film Polymer Nanocomposites with Highly Efficient EMI Shielding Properties and Ultralow Reflection. <i>Nano-Micro Letters</i> , 2022, 14, 19.	14.4	76
90	Design and development of novel bio-based functionally graded foams for enhanced acoustic capabilities. <i>Journal of Materials Science</i> , 2015, 50, 1248-1256.	1.7	74

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91	Scalable Fabrication of Thermally Insulating Mechanically Resilient Hierarchically Porous Polymer Foams. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38410-38417.	4.0	74
92	Processing of closed-cell silicon oxycarbide foams from a preceramic polymer. <i>Journal of Materials Science</i> , 2004, 39, 5647-5652.	1.7	73
93	Mechanical and morphological properties of injection molded linear and branched-poly(lactide) (PLA) nanocomposite foams. <i>European Polymer Journal</i> , 2015, 73, 455-465.	2.6	73
94	A novel gas-assisted microcellular injection molding method for preparing lightweight foams with superior surface appearance and enhanced mechanical performance. <i>Materials and Design</i> , 2017, 127, 115-125.	3.3	73
95	Structure-tunable thermoplastic polyurethane foams fabricated by supercritical carbon dioxide foaming and their compressive mechanical properties. <i>Journal of Supercritical Fluids</i> , 2019, 149, 127-137.	1.6	73
96	Effects of supercritical CO <sub>2</sub> on the viscosity and morphology of polymer blends. <i>Advances in Polymer Technology</i> , 2000, 19, 300-311.	0.8	71
97	Dependence of electromagnetic interference shielding ability of conductive polymer composite foams with hydrophobic properties on cellular structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7401-7410.	2.7	70
98	Effect of Processing Parameters on the Mechanical Properties of Injection Molded Thermoplastic Polyolefin (TPO) Cellular Foams. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 605-613.	1.7	69
99	Effect of Unexpected CO <sub>2</sub> 's Phase Transition on the High-Pressure Differential Scanning Calorimetry Performance of Various Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1810-1818.	3.2	69
100	Effect of Supercritical Gas on Crystallization of Linear and Branched Polypropylene Resins with Foaming Additives. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 6685-6691.	1.8	68
101	HDPE-Clay Nanocomposite Foams Blown with Supercritical CO <sub>2</sub> . <i>Journal of Cellular Plastics</i> , 2005, 41, 487-502.	1.2	67
102	The synergy of supercritical CO <sub>2</sub> and supercritical N <sub>2</sub> in foaming of polystyrene for cell nucleation. <i>Journal of Supercritical Fluids</i> , 2014, 90, 35-43.	1.6	67
103	Enhancing the electrical conductivity of PP/CNT nanocomposites through crystal-induced volume exclusion effect with a slow cooling rate. <i>Composites Part B: Engineering</i> , 2020, 183, 107663.	5.9	67
104	A review on physical foaming of thermoplastic and vulcanized elastomers. <i>Polymer Reviews</i> , 2022, 62, 95-141.	5.3	66
105	Enhanced electromagnetic wave absorption performance of polymer/SiC-nanowire/MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) composites. <i>Carbon</i> , 2021, 179, 408-416.	5.4	66
106	Processing of Porous Silicon Carbide Ceramics from Carbon-Filled Polysiloxane by Extrusion and Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1361-1364.	1.9	65
107	Study of the bubble nucleation and growth mechanisms in high-pressure foam injection molding through in-situ visualization. <i>European Polymer Journal</i> , 2016, 76, 2-13.	2.6	65
108	Transition from microcellular to nanocellular PLA foams by controlling viscosity, branching and crystallization. <i>European Polymer Journal</i> , 2017, 91, 283-296.	2.6	64



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109	Characterization of the Structure, Acoustic Property, Thermal Conductivity, and Mechanical Property of Highly Expanded Open-Cell Polycarbonate Foams. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 48-56.	1.7	63
110	Fabrication of high-expansion microcellular PLA foams based on pre-isothermal cold crystallization and supercritical CO <sub>2</sub> foaming. <i>Polymer Degradation and Stability</i> , 2018, 156, 75-88.	2.7	63
111	Research on a New Variotherm Injection Molding Technology and its Application on the Molding of a Large LCD Panel. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 671-681.	1.9	62
112	Microcellular extrusion foaming of poly(lactide)/poly(butylene adipate-co-terephthalate) blends. <i>Materials Science and Engineering C</i> , 2010, 30, 255-262.	3.8	62
113	Ultra-high expansion linear polypropylene foams prepared in a semi-molten state under supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , 2019, 145, 140-150.	1.6	62
114	Sustainable and efficient technologies for removal and recovery of toxic and valuable metals from wastewater: Recent progress, challenges, and future perspectives. <i>Chemosphere</i> , 2022, 292, 133102.	4.2	62
115	Fabrication of Microcellular Ceramics Using Gaseous Carbon Dioxide. <i>Journal of the American Ceramic Society</i> , 2003, 86, 2231-2233.	1.9	61
116	Steam-Chest Molding of Expanded Polypropylene Foams. 1. DSC Simulation of Bead Foam Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 9822-9829.	1.8	61
117	Steam-chest molding of expanded thermoplastic polyurethane bead foams and their mechanical properties. <i>Chemical Engineering Science</i> , 2017, 174, 337-346.	1.9	61
118	Processing and characterization of solid and foamed injection-molded polylactide with talc. <i>Journal of Cellular Plastics</i> , 2013, 49, 351-374.	1.2	60
119	Rheology, thermal properties, and foaming behavior of high $\alpha$ -content polylactic acid/cellulose nanofiber composites. <i>RSC Advances</i> , 2015, 5, 91544-91557.	1.7	60
120	Fabrication and Characterization of Closed-Cell Rubber Foams Based on Natural Rubber/Carbon Black by One-Step Foam Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 2407-2416.	1.8	60
121	Characterization of hard-segment crystalline phase of poly(ether-block-amide) (PEBAX <sup>®</sup> ) thermoplastic elastomers in the presence of supercritical CO <sub>2</sub> and its impact on foams. <i>Polymer</i> , 2017, 114, 15-27.	1.8	60
122	Biodegradable PLA/PBS open-cell foam fabricated by supercritical CO <sub>2</sub> foaming for selective oil-adsorption. <i>Separation and Purification Technology</i> , 2021, 257, 117949.	3.9	60
123	A comprehensive review of cell structure variation and general rules for polymer microcellular foams. <i>Chemical Engineering Journal</i> , 2022, 430, 132662.	6.6	60
124	Foaming Poly(vinyl alcohol)/Microfibrillated Cellulose Composites with CO <sub>2</sub> and Water as Co-blowing Agents. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 11962-11972.	1.8	59
125	Characterization of hard-segment crystalline phase of thermoplastic polyurethane in the presence of butane and glycerol monosterate and its impact on mechanical property and microcellular morphology. <i>Polymer</i> , 2017, 112, 208-218.	1.8	59
126	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. <i>Chemical Engineering Journal</i> , 2021, 411, 128382.	6.6	59



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127	Production of low-density LLDPE foams in rotational molding. <i>Polymer Engineering and Science</i> , 1998, 38, 1997-2009.	1.5	58
128	Acid-Base Polymeric Foams for the Adsorption of Micro-oil Droplets from Industrial Effluents. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8552-8560.	4.6	57
129	Comparative study on air gasification of plastic waste and conventional biomass based on coupling of AHP/TOPSIS multi-criteria decision analysis. <i>Chemosphere</i> , 2022, 286, 131867.	4.2	57
130	The orientation of carbon nanotubes in poly(ethylene-co-octene) microcellular foaming and its suppression effect on cell coalescence. <i>Polymer Engineering and Science</i> , 2012, 52, 2078-2089.	1.5	56
131	High-expansion polypropylene foam prepared in non-crystalline state and oil adsorption performance of open-cell foam. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 233-242.	5.0	56
132	Research and application of a new rapid heat cycle molding with electric heating and coolant cooling to improve the surface quality of large LCD TV panels. <i>Polymers for Advanced Technologies</i> , 2011, 22, 476-487.	1.6	55
133	Lightweight, thermally insulating, and low dielectric microcellular high-impact polystyrene (HIPS) foams fabricated by high-pressure foam injection molding with mold opening. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12294-12305.	2.7	55
134	The rheological and physical properties of linear and branched polypropylene blends. <i>Polymer Engineering and Science</i> , 2007, 47, 1133-1140.	1.5	53
135	The effects of viscoelastic properties on the cellular morphology of silicone rubber foams generated by supercritical carbon dioxide. <i>RSC Advances</i> , 2015, 5, 106981-106988.	1.7	53
136	Effect of foam processing parameters on bubble nucleation and growth dynamics in high-pressure foam injection molding. <i>Chemical Engineering Science</i> , 2016, 155, 27-37.	1.9	53
137	Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. <i>Polymer</i> , 2017, 129, 179-188.	1.8	53
138	Solubility and diffusivity of CO <sub>2</sub> and N <sub>2</sub> in TPU and their effects on cell nucleation in batch foaming. <i>Journal of Supercritical Fluids</i> , 2019, 154, 104623.	1.6	53
139	Nanocellular poly(ether-block-amide)/MWCNT nanocomposite films fabricated by stretching-assisted microcellular foaming for high-performance EMI shielding applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1245-1258.	2.7	53
140	Hydrophobic Porous Polypropylene with Hierarchical Structures for Ultrafast and Highly Selective Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16859-16868.	4.0	53
141	Processing of Microcellular Mullite. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3311-3315.	1.9	52
142	Bi-cellular Foam Structure of Polystyrene from Extrusion Foaming Process. <i>Journal of Cellular Plastics</i> , 2009, 45, 539-553.	1.2	51
143	Non-isothermal crystallization behaviors of poly(lactic acid)/cellulose nanofiber composites in the presence of CO <sub>2</sub> . <i>European Polymer Journal</i> , 2015, 71, 231-247.	2.6	51
144	Experimental observation and modeling of fiber rotation and translation during foam injection molding of polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 88, 67-74.	3.8	51

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