

Nemat Hossieny

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1674859/nemat-hossieny-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

356
papers

16,030
citations

70
h-index

109
g-index

380
ext. papers

19,506
ext. citations

5.6
avg. IF

7.29
L-index

#	Paper	IF	Citations
356	Recent Advances in Graphene-Based Polymer Nanocomposites and Foams for Electromagnetic Interference Shielding Applications. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 1545-1568	8.9	1
355	Tailoring nano-fibrillated polystyrene composite with enhanced fire retarding properties for foam applications. <i>Materials and Design</i> , 2022 , 214, 110419	8.1	2
354	Determination of CO solubility in semi-crystalline polylactic acid with consideration of rigid amorphous fraction.. <i>International Journal of Biological Macromolecules</i> , 2022 , 204, 274-283	7.9	1
353	Ultra-elastic and super-insulating biomass PEBA nanoporous foams achieved by combining in-situ fibrillation with microcellular foaming. <i>Journal of CO2 Utilization</i> , 2022 , 57, 101891	7.6	1
352	Ultra-ductile and strong in-situ fibrillated PLA/PTFE nanocomposites with outstanding heat resistance derived by CO2 treatment. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 155, 106849	8.4	2
351	Computational Optimizing the Electromagnetic Wave Reflectivity of Double-Layered Polymer Nanocomposites.. <i>Small Methods</i> , 2022 , e2101510	12.8	3
350	Super-elastic and structure-tunable poly(ether-block-amide) foams achieved by microcellular foaming. <i>Journal of CO2 Utilization</i> , 2022 , 55, 101807	7.6	3
349	Lightweight, strong, flame-retardant PVDF/PMMA microcellular foams for thermal insulation fabricated by supercritical CO2 foaming. <i>Composites Part B: Engineering</i> , 2022 , 230, 109554	10	2
348	Fluorescence assisted visualization and destruction of particles embedded thin cell walls in polymeric foams via supercritical foaming. <i>Journal of Supercritical Fluids</i> , 2022 , 181, 105511	4.2	2
347	Ultra-fast degradable PBAT/PBS foams of high performance in compression and thermal insulation made from environment-friendly supercritical foaming. <i>Journal of Supercritical Fluids</i> , 2022 , 181, 105512	4.2	3
346	A comprehensive review of cell structure variation and general rules for polymer microcellular foams. <i>Chemical Engineering Journal</i> , 2022 , 430, 132662	14.7	10
345	Synthesis, structures and properties of hydrophobic Alkyltrimethoxysilane-Polyvinyltrimethoxysilane hybrid aerogels with different alkyl chain lengths. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 720-734	9.3	1
344	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	8.4	14
343	Novel, flexible, and transparent thin film polyimide aerogels with enhanced thermal insulation and high service temperature. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5088-5108	7.1	6
342	Using a Supercritical Fluid-Assisted Thin Cell Wall Stretching/Defoaming Method to Enhance the Nanofiller Dispersion, EMI Shielding, and Thermal Conduction Property of CNF/PVDF Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 3647-3659	3.9	1
341	Cost-effective and reproducible technologies for fabrication of tissue engineered scaffolds: The state-of-the-art and future perspectives. <i>Polymer</i> , 2022 , 244, 124681	3.9	1
340	Lightweight and strong polypropylene/talc/polytetrafluoroethylene foams with enhanced flame-retardant performance fabricated by microcellular foam injection foaming. <i>Materials and Design</i> , 2022 , 215, 110539	8.1	1

339	Fabrication of super-hydrophilic and highly open-porous poly (lactic acid) scaffolds using supercritical carbon dioxide foaming.. <i>International Journal of Biological Macromolecules</i> , 2022 , 205, 740-748	7.9	0
338	Scalable production of crosslinked rubber nanofibre networks as highly efficient toughening agent for isotactic polypropylene: Toughening mechanism of Non-traditional anisotropic rubber inclusion. <i>Chemical Engineering Journal</i> , 2022 , 438, 134060	14.7	0
337	Low-emission and energetically efficient co-gasification of coal by incorporating plastic waste: A modeling study.. <i>Chemosphere</i> , 2022 , 299, 134408	8.4	3
336	Sectorization of Macromolecular Single Crystals Unveiled by Probing Shear Anisotropy.. <i>ACS Macro Letters</i> , 2022 , 11, 53-59	6.6	
335	Ultra-light, super-insulating, and strong polystyrene/carbon nanofiber nanocomposite foams fabricated by microcellular foaming. <i>European Polymer Journal</i> , 2022 , 173, 111261	5.2	0
334	Microcellular foams simultaneous reinforcing and toughening strategy of combining nano-fibrillation network and supercritical solid-state foaming. <i>Polymer</i> , 2022 , 252, 124928	3.9	2
333	Strong PP/PTFE microfibril reinforced composites achieved by enhanced crystallization under CO2 environment. <i>Polymer Testing</i> , 2022 , 112, 107630	4.5	0
332	Miscible polymethyl methacrylate/polylactide blend with enhanced foaming behavior and foam mechanical properties. <i>Journal of CO2 Utilization</i> , 2022 , 61, 102065	7.6	0
331	Layered Foam/Film Polymer Nanocomposites with Highly Efficient EMI Shielding Properties and Ultralow Reflection. <i>Nano-Micro Letters</i> , 2021 , 14, 19	19.5	11
330	The critical requirement for high-pressure foam injection molding with supercritical fluid. <i>Polymer</i> , 2021 , 238, 124388	3.9	2
329	Carbon as a solution for nanocellular foam superinsulation. <i>Carbon</i> , 2021 , 189, 319-319	10.4	0
328	Sustainable and efficient technologies for removal and recovery of toxic and valuable metals from wastewater: Recent progress, challenges, and future perspectives.. <i>Chemosphere</i> , 2021 , 292, 133102	8.4	6
327	Fibrosis mechanism, crystallization behavior and mechanical properties of in-situ fibrillary PTFE reinforced PP composites. <i>Materials and Design</i> , 2021 , 211, 110157	8.1	2
326	Hydrophobic Porous Polypropylene with Hierarchical Structures for Ultrafast and Highly Selective Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16859-16868	9.5	13
325	Nanofiber fluorescence coating for evaluation of complex solid-/gas-multi-phase and nano-/micro-multi-scale nanocomposite foam structure. <i>Progress in Organic Coatings</i> , 2021 , 154, 106183	4.8	4
324	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. <i>Chemical Engineering Journal</i> , 2021 , 411, 128382	14.7	20
323	Rheological and foaming behaviors of long-chain branched polyamide 6 with controlled branch length. <i>Polymer</i> , 2021 , 224, 123730	3.9	11
322	Lightweight and flexible poly(ether-block-amide)/multiwalled carbon nanotube composites with porous structure and segregated conductive networks for electromagnetic shielding applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 144, 106356	8.4	12

321	Polypropylene/talc foams with high weight-reduction and improved surface quality fabricated by mold-opening microcellular injection molding. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 74-86	5.5	8
320	Strong breathable membrane with excellent self-cleaning, wave-transparent, and heat dissipation performances. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51338	2.9	
319	Microcellular injection molded outstanding oleophilic and sound-insulating PP/PTFE nanocomposite foam. <i>Composites Part B: Engineering</i> , 2021 , 215, 108786	10	13
318	Poly(ether-block-amide) membrane with deformability and adjustable surface hydrophilicity for water purification. <i>Polymer Engineering and Science</i> , 2021 , 61, 2137-2146	2.3	1
317	3D fibrillated network of compatibilized linear low density polyethylene/polyamide with high melt strength and superior foamability. <i>Polymer</i> , 2021 , 228, 123911	3.9	1
316	Research on cellular morphology and mechanical properties of microcellular injection molded BCPP and its blends. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 116, 2223-2241	3.2	1
315	Enhanced electromagnetic wave absorption performance of polymer/SiC-nanowire/MXene (Ti3C2Tx) composites. <i>Carbon</i> , 2021 , 179, 408-416	10.4	11
314	Non-isothermal crystallization kinetics of polypropylene/polytetrafluoroethylene fibrillated composites. <i>Journal of Materials Science</i> , 2021 , 56, 3562-3575	4.3	7
313	Biodegradable PLA/PBS open-cell foam fabricated by supercritical CO ₂ foaming for selective oil-adsorption. <i>Separation and Purification Technology</i> , 2021 , 257, 117949	8.3	19
312	Mechanical and EMI shielding properties of solid and microcellular TPU/nanographite composite membranes. <i>Polymer Testing</i> , 2021 , 93, 106891	4.5	8
311	Synergetic effect of crystal nucleating agent and melt self-enhancement of isotactic polypropylene on its rheological and microcellular foaming properties. <i>Journal of Cellular Plastics</i> , 2021 , 57, 101-121	1.5	2
310	Review on the performances, foaming and injection molding simulation of natural fiber composites. <i>Polymer Composites</i> , 2021 , 42, 1305-1324	3	13
309	Percolation mechanism and effective conductivity of mechanically deformed 3-dimensional composite networks: Computational modeling and experimental verification. <i>Composites Part B: Engineering</i> , 2021 , 207, 108552	10	7
308	Enhanced electrical and mechanical properties of graphene nano-ribbon/thermoplastic polyurethane composites. <i>Carbon</i> , 2021 , 174, 305-316	10.4	11
307	Exploration of Polymer Calorimetric Glass Transition Phenomenology by Two-Dimensional Correlation Analysis. <i>Macromolecules</i> , 2021 , 54, 473-487	5.5	2
306	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	7.1	20
305	CVD carbon-coated carbonized loofah sponge loaded with a directionally arrayed MXene aerogel for electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 358-370	13	18
304	Titanium niobate (TiNbO) anchored on nitrogen-doped carbon foams as flexible and self-supported anode for high-performance lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 622-632	9.3	11

303	Nanofibrillated polymer systems: Design, application, and current state of the art. <i>Progress in Polymer Science</i> , 2021 , 113, 101346	29.6	15
302	Strong, highly hydrophobic, transparent, and super-insulative polyorganosiloxane-based aerogel. <i>Chemical Engineering Journal</i> , 2021 , 413, 127488	14.7	9
301	Recent progress in micro-/nano-fibrillar reinforced polymeric composite foams. <i>Polymer Engineering and Science</i> , 2021 , 61, 926-941	2.3	10
300	Advances in electromagnetic shielding properties of composite foams. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8896-8949	13	34
299	Opportunities and challenges in microwave absorption of nickel-carbon composites. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20795-20834	3.6	4
298	Facile Fabrication of Amphiphilic and Asymmetric Films with Excellent Deformability for Efficient and Stable Adsorption Applications. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000738	3.9	0
297	Super High-Expansion Poly(Lactic Acid) Foams with Excellent Oil-Adsorption and Thermal-Insulation Properties Fabricated by Supercritical CO ₂ Foaming. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000295	5.9	8
296	LBfoam: An open-source software package for the simulation of foaming using the Lattice Boltzmann Method. <i>Computer Physics Communications</i> , 2021 , 259, 107698	4.2	4
295	Environmentally Friendly and Zero-Formamide EVA/LDPE Microcellular Foams via Supercritical Carbon Dioxide Solid Foaming. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4213-4222	4.3	8
294	LDPE/MWCNT and LDPE/MWCNT/UHMWPE self-reinforced fiber-composite foams prepared via supercritical CO ₂ : A microstructure-engineering property perspective. <i>Journal of Supercritical Fluids</i> , 2021 , 174, 105248	4.2	10
293	Electrically percolated nanofibrillar composites with core-sheath structures from completely wet ternary polymer blends. <i>Chemical Engineering Journal</i> , 2021 , 419, 129603	14.7	1
292	Supercritical CO ₂ utilization for development of graded cellular structures in semicrystalline polymers. <i>Journal of CO₂ Utilization</i> , 2021 , 51, 101615	7.6	5
291	Lightweight and strong glass fiber reinforced polypropylene composite foams achieved by mold-opening microcellular injection molding. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 2920-2931	5.5	3
290	Fabrication of outstanding thermal-insulating, mechanical robust and superhydrophobic PP/CNT/sorbitol derivative nanocomposite foams for efficient oil/water separation. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126295	12.8	8
289	Synergistic Manipulation of Zero-Dimension and One-Dimension Hybrid Nanofillers in Multi-Layer Two-Dimension Thin Films to Construct Light Weight Electromagnetic Interference Material. <i>Polymers</i> , 2021 , 13,	4.5	6
288	Prediction of thermal conductivity of micro/nano porous dielectric materials: Theoretical model and impact factors. <i>Energy</i> , 2021 , 233, 121140	7.9	10
287	Maintaining electrical conductivity of microcellular MWCNT/TPU composites after deformation. <i>Composites Part B: Engineering</i> , 2021 , 223, 109113	10	8
286	Nanocellular TPU composite foams achieved by stretch-assisted microcellular foaming with low-pressure gaseous CO ₂ as blowing agent. <i>Journal of CO₂ Utilization</i> , 2021 , 53, 101708	7.6	5

285	Large cyclic deformability of microcellular TPU/MWCNT composite film with conductive stability, and electromagnetic interference shielding and self-cleaning performance. <i>Composites Science and Technology</i> , 2020 , 197, 108247	8.6	13
284	Wrong expectation of superinsulation behavior from largely-expanded nanocellular foams. <i>Nanoscale</i> , 2020 , 12, 13064-13085	7.7	9
283	Polyimide aerogels with novel bimodal micro and nano porous structure assembly for airborne nano filtering applications.. <i>RSC Advances</i> , 2020 , 10, 22909-22920	3.7	8
282	Cell structures, phase morphologies and impact toughness of phenolphthalein poly(ether ether ketone)/epoxy composite foams. <i>Polymer Engineering and Science</i> , 2020 , 60, 2133-2142	2.3	0
281	Theoretical modeling and experimental verification of percolation threshold with MWCNTs□ rotation and translation around a growing bubble in conductive polymer composite foams. <i>Composites Science and Technology</i> , 2020 , 199, 108345	8.6	17
280	Double Dianhydride Backbone Polyimide Aerogels with Enhanced Thermal Insulation for High-Temperature Applications. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900777	3.9	15
279	The conductivity of polydimethylsiloxane/graphene nano-ribbon foam composite with elongation. <i>Carbon</i> , 2020 , 162, 328-338	10.4	13
278	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	14.7	49
277	Improved cell nucleating effect of partially melted crystal structure to enhance the microcellular foaming and impact properties of isotactic polypropylene. <i>Journal of Supercritical Fluids</i> , 2020 , 160, 104794	4.2	11
276	Investigation on the influence of fold conformation on PLLA lamellar splaying by film crystallization in supercritical CO ₂ . <i>CrystEngComm</i> , 2020 , 22, 1459-1472	3.3	1
275	In Situ Interface Design in Graphene-Embedded Polymeric Silica Aerogel with Organic/Inorganic Hybridization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26635-26648	9.5	16
274	Green fabrication method of layered and open-cell polylactide foams for oil-sorption via pre-crystallization and supercritical CO ₂ -induced melting. <i>Journal of Supercritical Fluids</i> , 2020 , 162, 104854	4.2	8
273	Enhancing the mechanical performance of PA6 based composites by altering their crystallization and rheological behavior via in-situ generated PPS nanofibrils. <i>Composites Part B: Engineering</i> , 2020 , 195, 108067	10	25
272	Crystallization and Mechanical Properties of Glass Fiber Reinforced Polypropylene Composites Molded by Rapid Heat Cycle Molding. <i>Fibers and Polymers</i> , 2020 , 21, 2915-2926	2	
271	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	14.3	51
270	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	7.1	73
269	Highly expanded, highly insulating polypropylene/polybutylene-terephthalate composite foams manufactured by nano-fibrillation technology. <i>Materials and Design</i> , 2020 , 188, 108450	8.1	26
268	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	7	36

267	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	10	37
266	Surface-engineered sponges for recovery of crude oil microdroplets from wastewater. <i>Nature Sustainability</i> , 2020 , 3, 136-143	22.1	41
265	Novel and simple design of nanostructured, super-insulative and flexible hybrid silica aerogel with a new macromolecular polyether-based precursor. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 890-901	8.1	17
264	Injection Molded Strong Polypropylene Composite Foam Reinforced with Rubber and Talc. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900630	3.9	16
263	Mechanically robust and thermally insulating polyarylene ether nitrile with a bone-like structure. <i>Materials and Design</i> , 2020 , 196, 109099	8.1	2
262	In situ oils/organic solvents cleanup and recovery using advanced oil-water separation system. <i>Chemosphere</i> , 2020 , 260, 127586	8.4	15
261	Promotion of Form I? in the Polymorph Selection of Polybutene-1 during Crystallization under High Gas/Supercritical Fluid Pressure via Enhancing Chain Mobility. <i>Macromolecules</i> , 2020 , 53, 10069-10077	5.5	7
260	An Effective Design Strategy for the Sandwich Structure of PVDF/GNP-Ni-CNT Composites with Remarkable Electromagnetic Interference Shielding Effectiveness. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36568-36577	9.5	47
259	Fabrication of high porosity Nanocellular polymer foams based on PMMA/PVDF blends. <i>Materials and Design</i> , 2020 , 195, 109002	8.1	9
258	Highly Compressible Polymer Composite Foams with Thermal Heating-Boosted Electromagnetic Wave Absorption Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50793-50802	9.5	23
257	Peculiar crystallization and viscoelastic properties of polylactide/polytetrafluoroethylene composites induced by in-situ formed 3D nanofiber network. <i>Composites Part B: Engineering</i> , 2020 , 200, 108361	10	12
256	Foaming Behaviors and Mechanical Properties of Injection-Molded Polylactide/Cotton-Fiber Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17885-17893	3.9	4
255	Toughening mechanism of long chain branched polyamide 6. <i>Materials and Design</i> , 2020 , 196, 109173	8.1	12
254	Lightweight and flexible graphene/SiC-nanowires/ poly(vinylidene fluoride) composites for electromagnetic interference shielding and thermal management. <i>Carbon</i> , 2020 , 156, 58-66	10.4	84
253	Highly expanded fine-cell foam of polylactide/polyhydroxyalkanoate/nano-fibrillated polytetrafluoroethylene composites blown with mold-opening injection molding. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 286-292	7.9	16
252	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	7.1	36
251	Thermally conductive polymer-graphene nanoplatelet composite foams 2019 ,		1
250	Extensional Flow Resistance of 3D Fiber Networks in Plasticized Nanocomposites. <i>Macromolecules</i> , 2019 , 52, 6467-6473	5.5	10

249	Solubility and diffusivity of CO ₂ and N ₂ in TPU and their effects on cell nucleation in batch foaming. <i>Journal of Supercritical Fluids</i> , 2019 , 154, 104623	4.2	33
248	Effects of dynamic mold temperature control on melt pressure, cellular structure, and mechanical properties of microcellular injection-molded parts: An experimental study. <i>Frontiers in Forests and Global Change</i> , 2019 , 38, 111-130	1.6	
247	Numerical analysis of the effect of the local variation of viscosity on bubble growth and deformation in polymer foaming. <i>Journal of Rheology</i> , 2019 , 63, 895-903	4.1	8
246	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	7.9	59
245	Determination of modified polyamide 6's foaming windows by bubble growth simulations based on rheological measurements. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48138	2.9	14
244	Preparation of Thermoplastic Polyurethane (TPU) Perforated Membrane via CO ₂ Foaming and Its Particle Separation Performance. <i>Polymers</i> , 2019 , 11,	4.5	13
243	Flame retardancy and toughening modification of glass fiber-reinforced polycarbonate composites. <i>Polymer Journal</i> , 2019 , 51, 657-665	2.7	4
242	Robust, ultra-insulative and transparent polyethylene-based hybrid silica aerogel with a novel non-particulate structure. <i>Journal of Colloid and Interface Science</i> , 2019 , 548, 206-216	9.3	13
241	The effect of graphene-nanoplatelets on gelation and structural integrity of a polyvinyltrimethoxysilane-based aerogel.. <i>RSC Advances</i> , 2019 , 9, 11503-11520	3.7	22
240	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	4.2	34
239	Effects of thermoplastic elastomer on the morphology and mechanical properties of glass fiber-reinforced polycarbonate/acrylonitrile-butadiene-styrene. <i>Polymer Engineering and Science</i> , 2019 , 59, E144-E151	2.3	2
238	A green strategy to regulate cellular structure and crystallization of poly(lactic acid) foams based on pre-isothermal cold crystallization and CO ₂ foaming. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 171-180	7.9	26
237	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	9.3	25
236	Effect of chain topological structure on the crystallization, rheological behavior and foamability of TPEE using supercritical CO ₂ as a blowing agent. <i>Journal of Supercritical Fluids</i> , 2019 , 147, 48-58	4.2	26
235	Novel Method of Fabricating Free-Standing and Nitrogen-Doped 3D Hierarchically Porous Carbon Monoliths as Anodes for High-Performance Sodium-Ion Batteries by Supercritical CO ₂ Foaming. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9125-9135	9.5	12
234	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	13	80
233	Accurate theoretical modeling of cell growth by comparing with visualized data in high-pressure foam injection molding. <i>European Polymer Journal</i> , 2019 , 119, 189-199	5.2	12
232	Strong and thermally insulating polylactic acid/glass fiber composite foam fabricated by supercritical carbon dioxide foaming. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 144-155	7.9	24

231	Preparation and characterization of high melt strength thermoplastic polyester elastomer with different topological structure using a two-step functional group reaction. <i>Polymer</i> , 2019 , 179, 121628	3.9	26
230	Multi-dimensional analysis of micro-/nano-polymeric foams by confocal laser scanning microscopy and foam simulations. <i>Chemical Engineering Science</i> , 2019 , 207, 892-902	4.4	12
229	Fabrication of macroporous carbon monoliths with controllable structure via supercritical CO ₂ foaming of polyacrylonitrile. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 330-340	7.6	10
228	Effects of polymer-filler interactions on controlling the conductive network formation in polyamide 6/multi-Walled carbon nanotube composites. <i>Polymer</i> , 2019 , 178, 121684	3.9	23
227	Investigation of the influence of pressurized CO on the crystal growth of poly(L-lactic acid) by using an in situ high-pressure optical system. <i>Soft Matter</i> , 2019 , 15, 5714-5727	3.6	7
226	rGO/FeO hybrid induced ultra-efficient EMI shielding performance of phenolic-based carbon foam.. <i>RSC Advances</i> , 2019 , 9, 20643-20651	3.7	21
225	Insight into the Directional Thermal Transport of Hexagonal Boron Nitride Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41726-41735	9.5	18
224	Glass fiber reinforced PLA composite with enhanced mechanical properties, thermal behavior, and foaming ability. <i>Polymer</i> , 2019 , 181, 121803	3.9	57
223	Challenge in manufacturing nanofibril composites with low matrix viscosity: Effects of matrix viscosity and fibril content. <i>European Polymer Journal</i> , 2019 , 121, 109310	5.2	12
222	Thermal-Insulation, Electrical, and Mechanical Properties of Highly-Expanded PMMA/MWCNT Nanocomposite Foams Fabricated by Supercritical CO ₂ Foaming. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800789	3.9	13
221	Improving the Continuous Microcellular Extrusion Foaming Ability with Supercritical CO of Thermoplastic Polyether Ester Elastomer through In-Situ Fibrillation of Polytetrafluoroethylene. <i>Polymers</i> , 2019 , 11,	4.5	14
220	Effect of preparation methods on electrical and electromagnetic interference shielding properties of PMMA/MWCNT nanocomposites. <i>Polymer Composites</i> , 2019 , 40, E1786-E1800	3	8
219	Ultra-high expansion linear polypropylene foams prepared in a semi-molten state under supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2019 , 145, 140-150	4.2	32
218	Investigation of the mold-filling phenomenon in high-pressure foam injection molding and its effects on the cellular structure in expanded foams. <i>Polymer</i> , 2019 , 160, 43-52	3.9	22
217	Poly(vinylidene fluoride) foams: a promising low-k dielectric and heat-insulating material. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3065-3073	7.1	78
216	A new core-back foam injection molding method with chemical blowing agents. <i>Materials and Design</i> , 2018 , 144, 331-342	8.1	26
215	Effects of Compressed CO ₂ and Cotton Fibers on the Crystallization and Foaming Behaviors of Polylactide. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2094-2104	3.9	25
214	Non-crosslinked thermoplastic reticulated polymer foams from crystallization-induced structural heterogeneities. <i>Polymer</i> , 2018 , 135, 185-192	3.9	25

213	Reinforced resorcinol formaldehyde aerogel with Co-assembled polyacrylonitrile nanofibers and graphene oxide nanosheets. <i>Materials and Design</i> , 2018 , 151, 154-163	8.1	19
212	Environmentally Friendly Polylactic Acid-Based Thermal Insulation Foams Blown with Supercritical CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5464-5471	3.9	31
211	Foaming Mechanism of Polypropylene in Gas-Assisted Microcellular Injection Molding. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4710-4720	3.9	9
210	Foaming behavior of microcellular poly(lactic acid)/TPU composites in supercritical CO ₂ . <i>Journal of Thermoplastic Composite Materials</i> , 2018 , 31, 61-78	1.9	15
209	The construction of carbon-coated FeO 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	9.3	82
208	Modelling of Rod-Like Fillers' Rotation and Translation near Two Growing Cells in Conductive Polymer Composite Foam Processing. <i>Polymers</i> , 2018 , 10,	4.5	20
207	Ultralight Microcellular Polymer-Graphene Nanoplatelet Foams with Enhanced Dielectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19987-19998	9.5	61
206	Fabrication of high-expansion microcellular PLA foams based on pre-isothermal cold crystallization and supercritical CO ₂ foaming. <i>Polymer Degradation and Stability</i> , 2018 , 156, 75-88	4.7	39
205	Enhanced Electrical and Electromagnetic Interference Shielding Properties of Polymer-Graphene Nanoplatelet Composites Fabricated via Supercritical-Fluid Treatment and Physical Foaming. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30752-30761	9.5	99
204	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	7.1	94
203	Highly stretchable conductive thermoplastic vulcanizate/carbon nanotube nanocomposites with segregated structure, low percolation threshold and improved cyclic electromechanical performance. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 350-359	7.1	39
202	Ultralow-Threshold and Lightweight Biodegradable Porous PLA/MWCNT with Segregated Conductive Networks for High-Performance Thermal Insulation and Electromagnetic Interference Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1195-1203	9.5	171
201	Enhanced Thermal Conductivity of Graphene Nanoplatelet-Polymer Nanocomposites Fabricated via Supercritical Fluid-Assisted in Situ Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1225-1236	9.5	88
200	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	5.2	80
199	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	10.4	124
198	Modification of iPP microcellular foaming behavior by thermal history control and nucleating agent at compressed CO ₂ . <i>Journal of Supercritical Fluids</i> , 2018 , 133, 383-392	4.2	26
197	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	7.1	37
196	Scalable Fabrication of Thermally Insulating Mechanically Resilient Hierarchically Porous Polymer Foams. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38410-38417	9.5	48

195	Broadened foaming scope of iPP adjusted by its self-enhancement and nucleating agent under compressed CO ₂ . <i>Materials Today Communications</i> , 2018 , 17, 501-510	2.5	10
194	Incorporating a microcellular structure into PVDF/graphene/platelet composites to tune their electrical conductivity and electromagnetic interference shielding properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10292-10300	7.1	113
193	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	14.7	106
192	Nanostructure to thermal property relationship of resorcinol formaldehyde aerogels using the fractal technique. <i>Nanoscale</i> , 2018 , 10, 10564-10575	7.7	24
191	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	14.7	52
190	Evaluating Characteristic Parameters for Carbon Dioxide in the Sanchez-Lacombe Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 585-595	2.8	6
189	Characterization of hard-segment crystalline phase of thermoplastic polyurethane in the presence of butane and glycerol monostearate and its impact on mechanical property and microcellular morphology. <i>Polymer</i> , 2017 , 112, 208-218	3.9	40
188	Characterization of hard-segment crystalline phase of poly(ether-block-amide) (PEBAX) thermoplastic elastomers in the presence of supercritical CO ₂ and its impact on foams. <i>Polymer</i> , 2017 , 114, 15-27	3.9	37
187	Introduction of a long-chain branching structure by ultraviolet-induced reactive extrusion to improve cell morphology and processing properties of polylactide foam. <i>RSC Advances</i> , 2017 , 7, 6266-6277	3.7	35
186	Transition from microcellular to nanocellular PLA foams by controlling viscosity, branching and crystallization. <i>European Polymer Journal</i> , 2017 , 91, 283-296	5.2	54
185	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	3.9	62
184	Advanced bimodal polystyrene/multi-walled carbon nanotube nanocomposite foams for thermal insulation. <i>Carbon</i> , 2017 , 120, 1-10	10.4	85
183	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	8.1	50
182	Numerical and experimental investigations on polymer melt flow phenomenon in a vario-thermal mold cavity. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45193	2.9	2
181	Study of the foaming mechanisms associated with gas counter pressure and mold opening using the pressure profiles. <i>Chemical Engineering Science</i> , 2017 , 167, 105-119	4.4	20
180	Ultra-tough and super thermal-insulation nanocellular PMMA/TPU. <i>Chemical Engineering Journal</i> , 2017 , 325, 632-646	14.7	123
179	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	8.1	108
178	Flexible, Ultrathin, and High-Efficiency Electromagnetic Shielding Properties of Poly(Vinylidene Fluoride)/Carbon Composite Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20873-20884	9.5	185

177	Modelling of thermal transport through a nanocellular polymer foam: toward the generation of a new superinsulating material. <i>Nanoscale</i> , 2017 , 9, 5996-6009	7.7	98
176	Fiber-spun polypropylene/polyethylene terephthalate microfibrillar composites with enhanced tensile and rheological properties and foaming ability. <i>Polymer</i> , 2017 , 110, 139-148	3.9	76
175	In-situ visualization of PLA crystallization and crystal effects on foaming in extrusion. <i>European Polymer Journal</i> , 2017 , 96, 505-519	5.2	23
174	Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. <i>Polymer</i> , 2017 , 129, 179-188	3.9	39
173	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	5.2	87
172	Steam-chest molding of expanded thermoplastic polyurethane bead foams and their mechanical properties. <i>Chemical Engineering Science</i> , 2017 , 174, 337-346	4.4	46
171	Polymeric Foaming Predictions from the Sanchez-Lacombe Equation of State: Application to Polypropylene-Carbon Dioxide Mixtures. <i>Physical Review Applied</i> , 2017 , 8,	4.3	9
170	Visualization of polypropylene's strain-induced crystallization under the influence of supercritical CO ₂ in extrusion. <i>Polymer</i> , 2017 , 122, 312-322	3.9	17
169	Acid-Base Polymeric Foams for the Adsorption of Micro-oil Droplets from Industrial Effluents. <i>Environmental Science & Technology</i> , 2017 , 51, 8552-8560	10.3	43
168	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	14.7	76
167	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	7.1	108
166	CO ₂ -induced crystallization of polylactide and its self-templating block of co-crystalline microstructure. <i>Polymer Engineering and Science</i> , 2017 , 57, 365-373	2.3	4
165	Development of high-porosity resorcinol formaldehyde aerogels with enhanced mechanical properties through improved particle necking under CO ₂ supercritical conditions. <i>Journal of Colloid and Interface Science</i> , 2017 , 485, 65-74	9.3	37
164	Investigation on bubble morphological evolution and plastic part surface quality of microcellular injection molding process based on a multiphase-solid coupled heat transfer model. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 1246-1258	4.9	15
163	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	14.7	89
162	Effect of the melt compressibility and the pressure drop rate on the cell-nucleation behavior in foam injection molding with mold opening. <i>European Polymer Journal</i> , 2017 , 92, 314-325	5.2	33
161	Visualization of polypropylene crystallites formed from a stressed melt in extrusion. <i>Polymer</i> , 2016 , 101, 48-58	3.9	12
160	Microcellular Plastics 2016 , 1-57		11

159	From micro/nano structured isotactic polypropylene to a multifunctional low-density nanoporous medium. <i>RSC Advances</i> , 2016 , 6, 108056-108066	3.7	12
158	Towards the development of uniform closed cell nanocomposite foams using natural rubber containing pristine and organo-modified nanoclays. <i>RSC Advances</i> , 2016 , 6, 53981-53990	3.7	16
157	Estimation of the foaming temperature of mold-opening foam injection molding process. <i>Journal of Cellular Plastics</i> , 2016 , 52, 619-641	1.5	18
156	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	5.2	50
155	Fabrication and Characterization of Closed-Cell Rubber Foams Based on Natural Rubber/Carbon Black by One-Step Foam Processing. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2407-2416	3.9	45
154	Effect of Unexpected CO ₂ Phase Transition on the High-Pressure Differential Scanning Calorimetry Performance of Various Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1810-1818	8.2	52
153	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	8.4	100
152	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	8.4	43
151	Dimethyl ether plasticizing effect on carbon dioxide solubility in polystyrene. <i>Polymer</i> , 2016 , 97, 95-103	3.9	22
150	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	4.4	41
149	Heat transfer in microcellular polystyrene/multi-walled carbon nanotube nanocomposite foams. <i>Carbon</i> , 2015 , 93, 819-829	10.4	118
148	A novel technology to manufacture biodegradable polylactide bead foam products. <i>Materials and Design</i> , 2015 , 83, 413-421	8.1	79
147	Tuning viscoelastic and crystallization properties of polypropylene containing in-situ generated high aspect ratio polyethylene terephthalate fibrils. <i>Polymer</i> , 2015 , 68, 83-91	3.9	62
146	Development of polylactide bead foams with double crystal melting peaks. <i>Polymer</i> , 2015 , 69, 83-94	3.9	108
145	A polymer visualization system with accurate heating and cooling control and high-speed imaging. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 9196-216	6.3	8
144	A facile method to increase the charge storage capability of polymer nanocomposites. <i>Nano Energy</i> , 2015 , 15, 54-65	17.1	94
143	Non-isothermal crystallization behaviors of poly(lactic acid)/cellulose nanofiber composites in the presence of CO ₂ . <i>European Polymer Journal</i> , 2015 , 71, 231-247	5.2	42
142	Foaming of reactively modified polypropylene: Effects of rheology and coagent type. <i>Journal of Cellular Plastics</i> , 2015 , 51, 505-522	1.5	20

141	Rheology, thermal properties, and foaming behavior of high D-content polylactic acid/cellulose nanofiber composites. <i>RSC Advances</i> , 2015 , 5, 91544-91557	3.7	51
140	Poly(lactic acid)-Based in Situ Microfibrillar Composites with Enhanced Crystallization Kinetics, Mechanical Properties, Rheological Behavior, and Foaming Ability. <i>Biomacromolecules</i> , 2015 , 16, 3925-35	6.9	117
139	Past and present developments in polymer bead foams and bead foaming technology. <i>Polymer</i> , 2015 , 56, 5-19	3.9	135
138	Design and development of novel bio-based functionally graded foams for enhanced acoustic capabilities. <i>Journal of Materials Science</i> , 2015 , 50, 1248-1256	4.3	58
137	Bubble morphological evolution and surface defect formation mechanism in the microcellular foam injection molding process. <i>RSC Advances</i> , 2015 , 5, 70032-70050	3.7	17
136	Batch foaming poly(vinyl alcohol)/microfibrillated cellulose composites with CO ₂ and water as co-blowing agents. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	13
135	Mechanical and morphological properties of injection molded linear and branched-poly lactide (PLA) nanocomposite foams. <i>European Polymer Journal</i> , 2015 , 73, 455-465	5.2	48
134	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	3.7	42
133	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	3.9	50
132	Poly (lactic acid) foaming. <i>Progress in Polymer Science</i> , 2014 , 39, 1721-1741	29.6	317
131	In-situ visualization of polypropylene crystallization during extrusion. <i>Polymer Testing</i> , 2014 , 33, 57-63	4.5	22
130	Extruded PLA/clay nanocomposite foams blown with supercritical CO ₂ . <i>Polymer</i> , 2014 , 55, 4077-4090	3.9	135
129	Dispersed polypropylene fibrils improve the foaming ability of a polyethylene matrix. <i>Polymer</i> , 2014 , 55, 4199-4205	3.9	70
128	The Thermal Behavior of Polylactide with Different D-Lactide Content in the Presence of Dissolved CO ₂ . <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 1232-1239	3.9	38
127	Foaming Poly(vinyl alcohol)/Microfibrillated Cellulose Composites with CO ₂ and Water as Co-blowing Agents. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11962-11972	3.9	53
126	Poly(lactic acid) stereocomplex formation: Application to PLA rheological property modification. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	23
125	Lightweight polypropylene/stainless-steel fiber composite foams with low percolation for efficient electromagnetic interference shielding. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11091-100	9.5	236
124	The synergy of supercritical CO ₂ and supercritical N ₂ in foaming of polystyrene for cell nucleation. <i>Journal of Supercritical Fluids</i> , 2014 , 90, 35-43	4.2	56

123	Crystallization of hard segment domains with the presence of butane for microcellular thermoplastic polyurethane foams. <i>Polymer</i> , 2014 , 55, 651-662	3.9	74
122	Rheological and foaming behavior of linear and branched polylactides. <i>Rheologica Acta</i> , 2014 , 53, 779-793	3	68
121	Influence of relative low gas counter pressure on melt foaming behavior and surface quality of molded parts in microcellular injection molding process. <i>Journal of Cellular Plastics</i> , 2014 , 50, 415-435	1.5	30
120	Development of polylactide open-cell foams with bimodal structure for high-acoustic absorption. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	31
119	Foaming Technology of Wood Fiber/Plastic Composites. <i>Materials and Energy</i> , 2014 , 197-218		2
118	Effect of biopolymer blends on physical and Acoustical properties of biocomposite foams. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 1002-1013	2.6	14
117	Superhydrophobic and oleophilic open-cell foams from fibrillar blends of polypropylene and polytetrafluoroethylene. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21131-40	9.5	113
116	Experimental research on the effects of cavity surface temperature on surface appearance properties of the moulded part in rapid heat cycle moulding process. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 68, 1293-1310	3.2	20
115	Mechanisms of nanoclay-enhanced plastic foaming processes: effects of nanoclay intercalation and exfoliation. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	67
114	Effect of nucleation and plasticization on the stereocomplex formation between enantiomeric poly(lactic acid)s. <i>Polymer</i> , 2013 , 54, 5762-5770	3.9	35
113	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	4.2	147
112	Comparison of melting and crystallization behaviors of polylactide under high-pressure CO ₂ , N ₂ , and He. <i>Polymer</i> , 2013 , 54, 6471-6478	3.9	75
111	In situ fibrillation of CO ₂ -philic polymers: Sustainable route to polymer foams in a continuous process. <i>Polymer</i> , 2013 , 54, 4645-4652	3.9	93
110	Effects of nano-/micro-sized additives on the crystallization behaviors of PLA and PLA/CO ₂ mixtures. <i>Polymer</i> , 2013 , 54, 2382-2391	3.9	119
109	Double Crystal Melting Peak Generation for Expanded Polypropylene Bead Foam Manufacturing. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2297-2303	3.9	88
108	Effect of extrusion conditions on the surface quality, mechanical properties, and morphology of cellular wood flour/high-density polyethylene composite profiles. <i>Journal of Thermoplastic Composite Materials</i> , 2013 , 26, 1127-1144	1.9	5
107	Processing and characterization of solid and foamed injection-molded polylactide with talc. <i>Journal of Cellular Plastics</i> , 2013 , 49, 351-374	1.5	52
106	Development, characterization, and modeling of environmentally friendly open-cell acoustic foams. <i>Polymer Engineering and Science</i> , 2013 , 53, 1979-1989	2.3	36

105	Mechanism of extensional stress-induced cell formation in polymeric foaming processes with the presence of nucleating agents. <i>Journal of Supercritical Fluids</i> , 2012 , 63, 187-198	4.2	147
104	Effect of forming methods on porosity and compressive strength of polysiloxane-derived porous silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 199-203	1	13
103	Poly(lactic acid) crystallization. <i>Progress in Polymer Science</i> , 2012 , 37, 1657-1677	29.6	930
102	Effect of the introduction of polydimethylsiloxane on the foaming behavior of block-copolymerized polypropylene. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2726-2732	2.9	17
101	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	2.3	52
100	Thermal response of an electric heating rapid heat cycle molding mold and its effect on surface appearance and tensile strength of the molded part. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	2.9	9
99	The effects of extensional stresses on the foamability of polystyrene/calc composites blown with carbon dioxide. <i>Chemical Engineering Science</i> , 2012 , 75, 49-62	4.4	96
98	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	4.4	128
97	Crystallization Kinetics of Linear and Long-Chain-Branched Polylactide. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13789-13798	3.9	146
96	Synergistic Effects of Modification with Nanoclay and Polystyrene on the Foaming Behavior of a Random Copolymerized Polypropylene. <i>Frontiers in Forests and Global Change</i> , 2011 , 30, 227-238	1.6	8
95	Processing of Open-Cell Silicon Carbide Foams by Steam Chest Molding and Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 344-347	3.8	21
94	Processing highly porous SiC ceramics using poly(ether-co-octene) and hollow microsphere templates. <i>Journal of Materials Science</i> , 2011 , 46, 3664-3667	4.3	18
93	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	3.2	48
92	The effects of nanoclay on the extrusion foaming of wood fiber/polyethylene nanocomposites. <i>Polymer Engineering and Science</i> , 2011 , 51, 1014-1022	2.3	26
91	Effect of molecular structure and rheology on the compression foam molding of ethylene-butylene copolymers. <i>Polymer Engineering and Science</i> , 2011 , 51, 1145-1154	2.3	10
90	Effect of nanoclay addition on the foaming behavior of linear polypropylene-based soft thermoplastic polyolefin foam blown in continuous extrusion. <i>Polymer Engineering and Science</i> , 2011 , 51, 2387-2397	2.3	40
89	Research on optimum heating system design for rapid thermal response mold with electric heating based on response surface methodology and particle swarm optimization. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 902-921	2.9	22
88	A batch foaming visualization system with extensional stress-inducing ability. <i>Chemical Engineering Science</i> , 2011 , 66, 55-63	4.4	66

87	Origins of the failure of classical nucleation theory for nanocellular polymer foams. <i>Soft Matter</i> , 2011 , 7, 7351	3.6	39
86	Fully Coupled Transient Heat Transfer and Melt Filling Simulations in Rapid Heat Cycle Molding with Steam Heating. <i>Polymer-Plastics Technology and Engineering</i> , 2011 , 50, 423-437		11
85	Steam-Chest Molding of Expanded Polypropylene Foams. 2. Mechanism of Interbead Bonding. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 5523-5531	3.9	60
84	Processing of Silicon Oxycarbide Foams by Steam Chest Molding and Pyrolysis. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3099-3101	3.8	12
83	Steam-Chest Molding of Expanded Polypropylene Foams. 1. DSC Simulation of Bead Foam Processing. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9822-9829	3.9	48
82	Cell Structure Evolution and the Crystallization Behavior of Polypropylene/Clay Nanocomposites Foams Blown in Continuous Extrusion. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9834-9845	3.9	130
81	Effects of Nucleating Agents Shapes and Interfacial Properties on Cell Nucleation. <i>Journal of Cellular Plastics</i> , 2010 , 46, 441-460	1.5	31
80	Determination of Solubilities of CO ₂ in Linear and Branched Polypropylene Using a Magnetic Suspension Balance and a PVT Apparatus. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4885-4895	2.8	48
79	Planar extensional flow resistance of a foaming plastic. <i>Journal of Rheology</i> , 2010 , 54, 95-116	4.1	15
78	Preparation of microcellular poly(ethylene-co-octene) rubber foam with supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	11
77	The effects of clay dispersion on the mechanical, physical, and flame-retarding properties of wood fiber/polyethylene/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 452-461	2.9	40
76	Synthesis and processing of PMMA carbon nanotube nanocomposite foams. <i>Polymer</i> , 2010 , 51, 655-664	3.9	121
75	Microcellular extrusion foaming of poly(lactide)/poly(butylene adipate-co-terephthalate) blends. <i>Materials Science and Engineering C</i> , 2010 , 30, 255-262	8.3	55
74	Interfacial tension of linear and branched PP in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 386-394	4.2	29
73	Formation and characterization of polyethylene blends for autoclave-based expanded-bead foams. <i>Polymer Engineering and Science</i> , 2010 , 50, 1161-1167	2.3	19
72	Bi-cellular Foam Structure of Polystyrene from Extrusion Foaming Process. <i>Journal of Cellular Plastics</i> , 2009 , 45, 539-553	1.5	44
71	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		52
70	Investigation on the uniformity of high-density polyethylene/wood fiber composites in a twin-screw extruder. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 2081-2089	2.9	23

69	Microcellular extrusion-foaming of polylactide with chain-extender. <i>Polymer Engineering and Science</i> , 2009 , 49, 1653-1660	2.3	125
68	Mechanical properties and foaming behavior of cellulose fiber reinforced high-density polyethylene composites. <i>Polymer Engineering and Science</i> , 2009 , 49, 2179-2188	2.3	30
67	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	4.4	91
66	Strategies To Estimate the Pressure Drop Threshold of Nucleation for Polystyrene Foam with Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1921-1927	3.9	16
65	Strategies to Achieve a Uniform Cell Structure with a High Void Fraction in Advanced Structural Foam Molding. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9457-9464	3.9	65
64	Planar Extensional Viscosity of Polystyrene and Polystyrene/CO ₂ Solution. <i>AIP Conference Proceedings</i> , 2008 ,	0	2
63	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	3.9	53
62	Ideal surface geometries of nucleating agents to enhance cell nucleation in polymeric foaming processes. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3997-4003	2.9	38
61	Effect of die geometry on foaming behaviors of high-melt-strength polypropylene with CO ₂ . <i>Journal of Applied Polymer Science</i> , 2008 , 109, 3122-3132	2.9	30
60	Advanced structural foam molding using a continuous polymer/gas melt flow stream. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 2855-2861	2.9	23
59	Effects of the die geometry on the expansion of polystyrene foams blown with carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 3329-3336	2.9	24
58	A study on the onset surface melt fracture of polypropylene materials with foaming additives. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 3571-3577	2.9	2
57	Effect of branched PP content on the physical properties and cell growth during foaming of TPOs. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 817-824	2.9	16
56	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	3.8	59
55	Role of Processing Temperature in Polystyrene and Polycarbonate Foaming with Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7107-7116	3.9	39
54	Impact of approximating the initial bubble pressure on cell nucleation in polymeric foaming processes. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 902-908	2.9	17
53	Effects of clay dispersion and content on the rheological, mechanical properties, and flame retardance of HDPE/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1993-1999	2.9	46
52	Visualization of the foaming mechanism of polyethylene blown by chemical blowing agents under ambient pressure. <i>Advances in Polymer Technology</i> , 2007 , 26, 213-222	1.9	17

51	Effect of processing parameters on the cellular morphology and mechanical properties of thermoplastic polyolefin (TPO) microcellular foams. <i>Advances in Polymer Technology</i> , 2007 , 26, 232-246	1.9	25
50	The rheological and physical properties of linear and branched polypropylene blends. <i>Polymer Engineering and Science</i> , 2007 , 47, 1133-1140	2.3	46
49	Fabrication of cellular and microcellular ceramics with controllable open-cell content from polysiloxane-LDPE blends: I. Compounding and Foaming. <i>Journal of Materials Science</i> , 2007 , 42, 2854-2861	4.3	15
48	Reducing Material Costs with Microcellular/Fine-celled Foaming. <i>Journal of Cellular Plastics</i> , 2007 , 43, 297-312	1.5	25
47	Processing of Porous Silicon Oxycarbide Ceramics from Extruded Blends of Polysiloxane and Polymer Microbead. <i>Journal of the Ceramic Society of Japan</i> , 2007 , 115, 419-424		30
46	Extrusion of microcellular open-cell LDPE-based sheet foams. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 3376-3384	2.9	33
45	Use of Nitrogen as a Blowing Agent for the Production of Fine-Celled High-Density Polyethylene Foams. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1233-1244	3.9	41
44	A Microcellular Foaming Simulation System with a High Pressure-Drop Rate. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 6153-6161	3.9	84
43	Strategies for Achieving Microcellular LDPE Foams in Extrusion. <i>Frontiers in Forests and Global Change</i> , 2006 , 25, 1-18	1.6	20
42	Extruded Open-Cell Foams Using Two Semicrystalline Polymers with Different Crystallization Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 175-181	3.9	123
41	Effect of Supercritical Gas on Crystallization of Linear and Branched Polypropylene Resins with Foaming Additives. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 6685-6691	3.9	64
40	Fabrication of Open-Cell, Microcellular Silicon Carbide Ceramics by Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2949-2951	3.8	83
39	Processing of Microcellular Mullite. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3311-3315	3.8	48
38	Increase of open-cell content by plasticizing soft regions with secondary blowing agent. <i>Polymer Engineering and Science</i> , 2005 , 45, 1445-1451	2.3	42
37	HDPE-Clay Nanocomposite Foams Blown with Supercritical CO ₂ . <i>Journal of Cellular Plastics</i> , 2005 , 41, 487-502	1.5	64
36	Processing of closed-cell silicon oxycarbide foams from a preceramic polymer. <i>Journal of Materials Science</i> , 2004 , 39, 5647-5652	4.3	67
35	Fundamental foaming mechanisms governing the volume expansion of extruded polypropylene foams. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 2661-2668	2.9	196
34	On-line measurement of the PVT properties of polymer melts using a gear pump. <i>Advances in Polymer Technology</i> , 2004 , 23, 316-327	1.9	6

33	Fabrication of Porous Silicon Oxycarbide Ceramics by Foaming Polymer Liquid and Compression Molding. <i>Journal of the Ceramic Society of Japan</i> , 2003 , 111, 863-864		15
32	Effect of Recycling on the Rheological Properties and Foaming Behaviors of Branched Polypropylene. <i>Frontiers in Forests and Global Change</i> , 2003 , 22, 1-22	1.6	11
31	PP-Blends with Tailored Foamability and Mechanical Properties. <i>Frontiers in Forests and Global Change</i> , 2003 , 22, 315-327	1.6	29
30	Rotational foam molding of polypropylene with control of melt strength. <i>Advances in Polymer Technology</i> , 2003 , 22, 280-296	1.9	32
29	Effects of die geometry on cell nucleation of PS foams blown with CO ₂ . <i>Polymer Engineering and Science</i> , 2003 , 43, 1378-1390	2.3	159
28	Fabrication of Microcellular Ceramics Using Gaseous Carbon Dioxide. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2231-2233	3.8	57
27	Strategies for achieving ultra low-density polypropylene foams. <i>Polymer Engineering and Science</i> , 2002 , 42, 1481-1492	2.3	207
26	Fabrication of porous preceramic polymers using carbon dioxide. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1667-1669		26
25	Study of Shear and Extensional Viscosities of Biodegradable PBS/CO ₂ Solutions. <i>Journal of Cellular Plastics</i> , 2001 , 37, 109-148	1.5	33
24	Effects of supercritical CO ₂ on the viscosity and morphology of polymer blends. <i>Advances in Polymer Technology</i> , 2000 , 19, 300-311	1.9	61
23	Foaming of PS/wood fiber composites using moisture as a blowing agent. <i>Polymer Engineering and Science</i> , 2000 , 40, 2124-2132	2.3	75
22	Measurements and modeling of PS/supercritical CO ₂ solution viscosities. <i>Polymer Engineering and Science</i> , 1999 , 39, 99-109	2.3	131
21	Influence of interfacial interactions on the properties of PVC/cellulosic fiber composites. <i>Polymer Composites</i> , 1998 , 19, 446-455	3	144
20	Microcellular sheet extrusion system process design models for shaping and cell growth control. <i>Polymer Engineering and Science</i> , 1998 , 38, 674-688	2.3	41
19	Effect of surface properties on the adhesion between PVC and wood veneer laminates. <i>Polymer Engineering and Science</i> , 1998 , 38, 765-773	2.3	100
18	Extrusion of PE/PS blends with supercritical carbon dioxide. <i>Polymer Engineering and Science</i> , 1998 , 38, 1112-1120	2.3	98
17	Low density microcellular foam processing in extrusion using CO ₂ . <i>Polymer Engineering and Science</i> , 1998 , 38, 1812-1823	2.3	219
16	Cell morphology and property relationships of microcellular foamed pvc/wood-fiber composites. <i>Polymer Engineering and Science</i> , 1998 , 38, 1862-1872	2.3	195

15	Production of low-density LLDPE foams in rotational molding. <i>Polymer Engineering and Science</i> , 1998 , 38, 1997-2009	2.3	48
14	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	2	77
13	A Strategy for the Suppression of Cell Coalescence in the Extrusion of Microcellular High-Impact Polystyrene Foams. <i>ACS Symposium Series</i> , 1997 , 115-129	0.4	19
12	A study of cell nucleation in the extrusion of polypropylene foams. <i>Polymer Engineering and Science</i> , 1997 , 37, 1-10	2.3	247
11	Processing and cell morphology relationships for microcellular foamed PVC/wood-fiber composites. <i>Polymer Engineering and Science</i> , 1997 , 37, 1137-1147	2.3	166
10	Axiomatic design of a microcellular filament extrusion system. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 1996 , 8, 166-177	3.5	14
9	Filamentary extrusion of microcellular polymers using a rapid decompressive element. <i>Polymer Engineering and Science</i> , 1996 , 36, 34-48	2.3	146
8	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	2.3	86
7	A microcellular processing study of poly(ethylene terephthalate) in the amorphous and semicrystalline states. Part I: Microcell nucleation. <i>Polymer Engineering and Science</i> , 1996 , 36, 1437-1445	2.3	194
6	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	2.3	122
5	Effect of the pressure drop rate on cell nucleation in continuous processing of microcellular polymers. <i>Polymer Engineering and Science</i> , 1995 , 35, 432-440	2.3	328
4	Enhanced Foaming Behavior of Ultrahigh Molecular Weight Polyethylene by Blending Silicone Powder in Microcellular Foaming. <i>Advanced Engineering Materials</i> , 2101137	3.5	0
3	A hybrid lattice Boltzmann-molecular dynamics-immersed boundary method model for the simulation of composite foams. <i>Computational Mechanics</i> , 1	4	
2	A review on physical foaming of thermoplastic and vulcanized elastomers. <i>Polymer Reviews</i> , 1-47	14	14
1	Fabrication of Microcellular Injection-Molded Polypropylene with Super High Expansion Ratio by Precision Mold Opening Technology. <i>Macromolecular Materials and Engineering</i> , 2200112	3.9	0