

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	A review on physical foaming of thermoplastic and vulcanized elastomers. <i>Polymer Reviews</i> , 2022, 62, 95-141.	5.3	66
2	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.	5.0	11
3	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
4	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
5	Super-elastic and structure-tunable poly(ether-block-amide) foams achieved by microcellular foaming. <i>Journal of CO2 Utilization</i> , 2022, 55, 101807.	3.3	38
6	Carbon as a solution for nanocellular foam superinsulation. <i>Carbon</i> , 2022, 189, 319-338.	5.4	9
7	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.	5.9	21
8	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.	1.6	15
9	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.	1.6	31
10	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
11	Recent Advances in Graphene-Based Polymer Nanocomposites and Foams for Electromagnetic Interference Shielding Applications. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1545-1568.	1.8	25
12	Tailoring nano-fibrillated polystyrene composite with enhanced fire retarding properties for foam applications. <i>Materials and Design</i> , 2022, 214, 110419.	3.3	13
13	Determination of CO2 solubility in semi-crystalline polylactic acid with consideration of rigid amorphous fraction. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 274-283.	3.6	9
14	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.	3.3	20
15	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.	3.8	21
16	Computational Optimizing the Electromagnetic Wave Reflectivity of Double-Layered Polymer Nanocomposites. <i>Small Methods</i> , 2022, 6, e2101510.	4.6	38
17	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
18	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.	2.7	35

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19	Using a Supercritical Fluid-Assisted Thin Cell Wall Stretchingâ€œDefoaming 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.	1.8	18
20	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.	1.8	10
21	Generation of Tough, Stiff Polylactide Nanocomposites through the <i>In Situ</i> Nanofibrillation of Thermoplastic Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14422-14434.	4.0	20
22	Closely Packed Conductive Droplets with Polygon-Like Patterns Confined at the Interface in Ternary Polymer Blends. <i>Langmuir</i> , 2022, 38, 3189-3201.	1.6	0
23	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.	3.3	11
24	Friction of Ti ₃ C ₂ T _x MXenes. <i>Nano Letters</i> , 2022, 22, 3356-3363.	4.5	46
25	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.	3.6	18
26	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.	6.6	19
27	Low-emission and energetically efficient co-gasification of coal by incorporating plastic waste: A modeling study. <i>Chemosphere</i> , 2022, 299, 134408.	4.2	23
28	Sectorization of Macromolecular Single Crystals Unveiled by Probing Shear Anisotropy. <i>ACS Macro Letters</i> , 2022, 11, 53-59.	2.3	0
29	Three-Dimensional Polymer Nanofiber Structures for Liquid Contamination Adsorption. <i>ACS Applied Nano Materials</i> , 2022, 5, 5640-5651.	2.4	8
30	Greatly Enhanced Electromagnetic Interference Shielding Effectiveness and Mechanical Properties of Polyaniline-Grafted Ti ₃ C ₂ T _x MXeneâ€œPVDF Composites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21521-21534.	4.0	31
31	Flameâ€œretardant, thermal and mechanical properties of <i>PLA/ramie</i> fiber composites. <i>Polymer Composites</i> , 2022, 43, 4244-4254.	2.3	9
32	Surface treatment of <i>multiwalled</i> carbon nanotubes and the formation of the <i>multiscale</i> conductivity network in long carbon fiber reinforced polypropylene. <i>Polymer Composites</i> , 2022, 43, 4645-4659.	2.3	4
33	Flexible Poly(ether-block-amide)/Carbon Nanotube Composites for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2022, 5, 7598-7608.	2.4	9
34	Ultra-light, super-insulating, and strong polystyrene/carbon nanofiber nanocomposite foams fabricated by microcellular foaming. <i>European Polymer Journal</i> , 2022, 173, 111261.	2.6	11
35	Microcellular foams simultaneous reinforcing and toughening strategy of combining nano-fibrillation network and supercritical solid-state foaming. <i>Polymer</i> , 2022, 252, 124928.	1.8	13
36	Strong PP/PTFE microfibril reinforced composites achieved by enhanced crystallization under CO ₂ environment. <i>Polymer Testing</i> , 2022, 112, 107630.	2.3	4

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37	Construction of a Two-Dimensional Response Network in Three-Dimensional Composites to Dramatically Enhance Sensor Sensitivity: A Simple, Feasible, and Green Regulating Strategy. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8069-8080.	1.8	6
38	Miscible polymethyl methacrylate/polylactide blend with enhanced foaming behavior and foam mechanical properties. <i>Journal of CO2 Utilization</i> , 2022, 61, 102065.	3.3	5
39	Anti-shrinkage, high-elastic, and strong thermoplastic polyester elastomer foams fabricated by microcellular foaming with CO2 & N2 as blowing agents. <i>Journal of CO2 Utilization</i> , 2022, 62, 102076.	3.3	27
40	Microcellular injection molded lightweight and tough poly (L-lactic acid)/in-situ polytetrafluoroethylene nanocomposite foams with enhanced surface quality and thermally-insulating performance. <i>International Journal of Biological Macromolecules</i> , 2022, 215, 57-66.	3.6	15
41	Graphene-Embedded Hybrid Network Structure to Render Olefin Block Copolymer Foams with High Compression Performance. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9735-9744.	1.8	8
42	Strong and flame-retardant thermally insulating poly(vinylidene fluoride) foams fabricated by microcellular foaming. <i>Materials and Design</i> , 2022, 221, 110932.	3.3	9
43	Ultralight and hydrophobic PVDF/PMMA open-cell foams with outstanding heat-insulation and oil-adsorption performances fabricated by CO2 molten foaming. <i>Journal of CO2 Utilization</i> , 2022, 63, 102108.	3.3	20
44	Non-isothermal crystallization kinetics of polypropylene/polytetrafluoroethylene fibrillated composites. <i>Journal of Materials Science</i> , 2021, 56, 3562-3575.	1.7	25
45	Biodegradable PLA/PBS open-cell foam fabricated by supercritical CO2 foaming for selective oil-adsorption. <i>Separation and Purification Technology</i> , 2021, 257, 117949.	3.9	60
46	Mechanical and EMI shielding properties of solid and microcellular TPU/nanographite composite membranes. <i>Polymer Testing</i> , 2021, 93, 106891.	2.3	36
47	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.	1.2	5
48	Review on the performances, foaming and injection molding simulation of natural fiber composites. <i>Polymer Composites</i> , 2021, 42, 1305-1324.	2.3	28
49	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.	5.9	32
50	Enhanced electrical and mechanical properties of graphene nano-ribbon/thermoplastic polyurethane composites. <i>Carbon</i> , 2021, 174, 305-316.	5.4	38
51	Exploration of Polymer Calorimetric Glass Transition Phenomenology by Two-Dimensional Correlation Analysis. <i>Macromolecules</i> , 2021, 54, 473-487.	2.2	3
52	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
53	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.	5.2	48
54	Titanium niobate (Ti2Nb10O29) 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.	5.0	26

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55	Nanofibrillated polymer systems: Design, application, and current state of the art. Progress in Polymer Science, 2021, 113, 101346.	11.8	47
56	Strong, highly hydrophobic, transparent, and super-insulative polyorganosiloxane-based aerogel. Chemical Engineering Journal, 2021, 413, 127488.	6.6	28
57	Recent progress in micro/nano-fibrillar reinforced polymeric composite foams. Polymer Engineering and Science, 2021, 61, 926-941.	1.5	35
58	Advances in electromagnetic shielding properties of composite foams. Journal of Materials Chemistry A, 2021, 9, 8896-8949.	5.2	184
59	Opportunities and challenges in microwave absorption of nickel-carbon composites. Physical Chemistry Chemical Physics, 2021, 23, 20795-20834.	1.3	29
60	Facile Fabrication of Amphiphilic and Asymmetric Films with Excellent Deformability for Efficient and Stable Adsorption Applications. Macromolecular Materials and Engineering, 2021, 306, 2000738.	1.7	3
61	Super High-Expansion Poly(Lactic Acid) Foams with Excellent Oil Adsorption and Thermal Insulation Properties Fabricated by Supercritical CO ₂ Foaming. Advanced Sustainable Systems, 2021, 5, 2000295.	2.7	25
62	LBfoam: An open-source software package for the simulation of foaming using the Lattice Boltzmann Method. Computer Physics Communications, 2021, 259, 107698.	3.0	11
63	Hydrophobic Porous Polypropylene with Hierarchical Structures for Ultrafast and Highly Selective Oil/Water Separation. ACS Applied Materials & Interfaces, 2021, 13, 16859-16868.	4.0	53
64	Nanofiber fluorescence coating for evaluation of complex solid-/gas-multi-phase and nano-/micro-multi-scale nanocomposite foam structure. Progress in Organic Coatings, 2021, 154, 106183.	1.9	15
65	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. Chemical Engineering Journal, 2021, 411, 128382.	6.6	59
66	Rheological and foaming behaviors of long-chain branched polyamide 6 with controlled branch length. Polymer, 2021, 224, 123730.	1.8	29
67	Lightweight and flexible poly(ether-block-amide)/multiwalled carbon nanotube composites with porous structure and segregated conductive networks for electromagnetic shielding applications. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106356.	3.8	28
68	Polypropylene/talc foams with high weight-reduction and improved surface quality fabricated by mold-opening microcellular injection molding. Journal of Materials Research and Technology, 2021, 12, 74-86.	2.6	20
69	Strong breathable membrane with excellent self-cleaning, wave-transparent, and heat dissipation performances. Journal of Applied Polymer Science, 2021, 138, 51338.	1.3	0
70	Microcellular injection molded outstanding oleophilic and sound-insulating PP/PTFE nanocomposite foam. Composites Part B: Engineering, 2021, 215, 108786.	5.9	40
71	Poly(ether-block-amide) membrane with deformability and adjustable surface hydrophilicity for water purification. Polymer Engineering and Science, 2021, 61, 2137-2146.	1.5	4
72	3D fibrillated network of compatibilized linear low density polyethylene/polyamide with high melt strength and superior foamability. Polymer, 2021, 228, 123911.	1.8	10

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73	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.	1.5	4
74	Enhanced electromagnetic wave absorption performance of polymer/SiC-nanowire/MXene (Ti3C2Tx) composites. <i>Carbon</i> , 2021, 179, 408-416.	5.4	66
75	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.	2.0	38
76	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.	1.6	17
77	Investigation on the β -Crystal Transition of Poly(L-lactic Acid) with Different Molecular Weights. <i>Polymers</i> , 2021, 13, 3280.	2.0	7
78	Electrically percolated nanofibrillar composites with core-sheath structures from completely wet ternary polymer blends. <i>Chemical Engineering Journal</i> , 2021, 419, 129603.	6.6	5
79	Supercritical CO ₂ utilization for development of graded cellular structures in semicrystalline polymers. <i>Journal of CO₂ Utilization</i> , 2021, 51, 101615.	3.3	12
80	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.	2.6	25
81	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.	6.5	41
82	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, 3278.	2.0	15
83	Prediction of thermal conductivity of micro/nano porous dielectric materials: Theoretical model and impact factors. <i>Energy</i> , 2021, 233, 121140.	4.5	26
84	Maintaining electrical conductivity of microcellular MWCNT/TPU composites after deformation. <i>Composites Part B: Engineering</i> , 2021, 223, 109113.	5.9	23
85	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.	3.3	27
86	Fibrosis mechanism, crystallization behavior and mechanical properties of in-situ fibrillary PTFE reinforced PP composites. <i>Materials and Design</i> , 2021, 211, 110157.	3.3	23
87	The critical requirement for high-pressure foam injection molding with supercritical fluid. <i>Polymer</i> , 2021, 238, 124388.	1.8	8
88	Entirely environment-friendly polylactide composites with outstanding heat resistance and superior mechanical performance fabricated by spunbond technology: Exploring the role of nanofibrillated stereocomplex polylactide crystals. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 2210-2220.	3.6	22
89	The role of interface on the toughening and failure mechanisms of thermoplastic nanocomposites reinforced with nanofibrillated rubber. <i>Nanoscale</i> , 2021, 13, 20248-20280.	2.8	6
90	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

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91	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
92	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
93	Highly expanded, highly insulating polypropylene/polybutylene-terephthalate composite foams manufactured by nano-fibrillation technology. <i>Materials and Design</i> , 2020, 188, 108450.	3.3	39
94	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
95	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
96	Surface-engineered sponges for recovery of crude oil microdroplets from wastewater. <i>Nature Sustainability</i> , 2020, 3, 136-143.	11.5	94
97	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.	5.0	37
98	Injection Molded Strong Polypropylene Composite Foam Reinforced with Rubber and Talc. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900630.	1.7	24
99	Mechanically robust and thermally insulating polyarylene ether nitrile with a bone-like structure. <i>Materials and Design</i> , 2020, 196, 109099.	3.3	9
100	In situ oils/organic solvents cleanup and recovery using advanced oil-water separation system. <i>Chemosphere</i> , 2020, 260, 127586.	4.2	38
101	Promotion of Form $\text{l}\hat{\text{e}}^2$ 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.	2.2	18
102	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.	4.0	112
103	Fabrication of high porosity Nanocellular polymer foams based on PMMA/PVDF blends. <i>Materials and Design</i> , 2020, 195, 109002.	3.3	25
104	Highly Compressible Polymer Composite Foams with Thermal Heating-Boosted Electromagnetic Wave Absorption Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50793-50802.	4.0	47
105	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.	5.9	29
106	Foaming Behaviors and Mechanical Properties of Injection-Molded Polylactide/Cotton-Fiber Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17885-17893.	1.8	9
107	Toughening mechanism of long chain branched polyamide 6. <i>Materials and Design</i> , 2020, 196, 109173.	3.3	24
108	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.	3.8	26

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109	Wrong expectation of superinsulation behavior from largely-expanded nanocellular foams. <i>Nanoscale</i> , 2020, 12, 13064-13085.	2.8	32
110	Polyimide aerogels with novel bimodal micro and nano porous structure assembly for airborne nano filtering applications. <i>RSC Advances</i> , 2020, 10, 22909-22920.	1.7	28
111	Cell structures, phase morphologies and impact toughness of phenolphthalein poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Qverlock	1.5	3
112	Theoretical modeling and experimental verification of percolation threshold with MWCNTsâ€™ rotation and translation around a growing bubble in conductive polymer composite foams. <i>Composites Science and Technology</i> , 2020, 199, 108345.	3.8	38
113	Double Dianhydride Backbone Polyimide Aerogels with Enhanced Thermal Insulation for Highâ€™Temperature Applications. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900777.	1.7	35
114	The conductivity of polydimethylsiloxane/graphene nano-ribbon foam composite with elongation. <i>Carbon</i> , 2020, 162, 328-338.	5.4	19
115	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
116	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.	1.6	25
117	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.	1.3	5
118	In Situ Interface Design in Graphene-Embedded Polymeric Silica Aerogel with Organic/Inorganic Hybridization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26635-26648.	4.0	31
119	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.	1.6	27
120	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.	5.9	50
121	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.	3.6	33
122	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
123	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.	1.1	2
124	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
125	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.	2.6	18
126	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.	3.6	48

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127	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.	1.8	47
128	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.	1.9	24
129	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.	3.3	14
130	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.	1.8	40
131	Investigation of the influence of pressurized CO ₂ on the crystal growth of poly(<i>l</i> -lactide) by using an <i>in situ</i> high-pressure optical system. <i>Soft Matter</i> , 2019, 15, 5714-5727.	1.2	15
132	rGO/Fe ₃ O ₄ hybrid induced ultra-efficient EMI shielding performance of phenolic-based carbon foam. <i>RSC Advances</i> , 2019, 9, 20643-20651.	1.7	41
133	Insight into the Directional Thermal Transport of Hexagonal Boron Nitride Composites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41726-41735.	4.0	33
134	Glass fiber reinforced PLA composite with enhanced mechanical properties, thermal behavior, and foaming ability. <i>Polymer</i> , 2019, 181, 121803.	1.8	102
135	Challenge in manufacturing nanofibril composites with low matrix viscosity: Effects of matrix viscosity and fibril content. <i>European Polymer Journal</i> , 2019, 121, 109310.	2.6	30
136	Thermally conductive polymer-graphene nanoplatelet composite foams. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
137	Extensional Flow Resistance of 3D Fiber Networks in Plasticized Nanocomposites. <i>Macromolecules</i> , 2019, 52, 6467-6473.	2.2	15
138	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.	1.6	53
139	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.	0.6	0
140	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.	1.3	17
141	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
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