

Chul B Park

List of Publications by Year in descending order

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353
papers

23,820
citations

5574

82
h-index

12946

131
g-index

362
all docs

362
docs citations

362
times ranked

8712
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on physical foaming of thermoplastic and vulcanized elastomers. <i>Polymer Reviews</i> , 2022, 62, 95-141.	10.9	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.	9.4	11
3	A comprehensive review of cell structure variation and general rules for polymer microcellular foams. <i>Chemical Engineering Journal</i> , 2022, 430, 132662.	12.7	60
4	A novel systematic multi-objective optimization to achieve high-efficiency and low-emission waste polymeric foam gasification using response surface methodology and TOPSIS method. <i>Chemical Engineering Journal</i> , 2022, 430, 132958.	12.7	57
5	Electrically and thermally graded microcellular polymer/graphene nanoplatelet composite foams and their EMI shielding properties. <i>Carbon</i> , 2022, 187, 153-164.	10.3	42
6	Carbon as a solution for nanocellular foam superinsulation. <i>Carbon</i> , 2022, 189, 319-338.	10.3	9
7	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.	3.2	15
8	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.	3.2	31
9	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.	8.2	62
10	Recent Advances in Graphene-Based Polymer Nanocomposites and Foams for Electromagnetic Interference Shielding Applications. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1545-1568.	3.7	25
11	Tailoring nano-fibrillated polystyrene composite with enhanced fire retarding properties for foam applications. <i>Materials and Design</i> , 2022, 214, 110419.	7.0	13
12	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.	6.8	20
13	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.	7.6	21
14	High-efficiency and low-pollutant waste polystyrene and waste polystyrene foam gasification: Comprehensive comparison analysis, multi-objective optimization and multi-criteria decision analysis. <i>Fuel</i> , 2022, 316, 123362.	6.4	29
15	Computational Optimizing the Electromagnetic Wave Reflectivity of Double-layered Polymer Nanocomposites. <i>Small Methods</i> , 2022, 6, e2101510.	8.6	38
16	Molecular engineering of the surface of boron nitride nanotubes for manufacture of thermally conductive dielectric polymer composites. <i>Applied Surface Science</i> , 2022, 587, 152779.	6.1	11
17	Layered Foam/Film Polymer Nanocomposites with Highly Efficient EMI Shielding Properties and Ultralow Reflection. <i>Nano-Micro Letters</i> , 2022, 14, 19.	27.0	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.	5.5	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.	3.7	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.	3.8	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.	8.0	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.	3.5	0
23	Friction of $Ti_{3}C_{2}Tx$ MXenes. <i>Nano Letters</i> , 2022, 22, 3356-3363.	9.1	46
24	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.	12.7	19
25	Microcellular foamed polyamide 6/carbon nanotube composites with superior electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , 2022, 117, 215-224.	10.7	28
26	Sectorization of Macromolecular Single Crystals Unveiled by Probing Shear Anisotropy. <i>ACS Macro Letters</i> , 2022, 11, 53-59.	4.8	0
27	Three-Dimensional Polymer Nanofiber Structures for Liquid Contamination Adsorption. <i>ACS Applied Nano Materials</i> , 2022, 5, 5640-5651.	5.0	8
28	Greatly Enhanced Electromagnetic Interference Shielding Effectiveness and Mechanical Properties of Polyaniline-Grafted $Ti_{3}C_{2}Tx$ MXeneâ€œPVDF Composites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21521-21534.	8.0	31
29	Flexible Poly(ether-block-amide)/Carbon Nanotube Composites for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2022, 5, 7598-7608.	5.0	9
30	Microcellular foams simultaneous reinforcing and toughening strategy of combining nano-fibrillation network and supercritical solid-state foaming. <i>Polymer</i> , 2022, 252, 124928.	3.8	13
31	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.	3.7	6
32	Structure-gradient thermoplastic polyurethane foams with enhanced resilience derived by microcellular foaming. <i>Journal of Supercritical Fluids</i> , 2022, 188, 105667.	3.2	15
33	Polylactic acid/UV-crosslinked in-situ ethylene-propylene-diene terpolymer nanofibril composites with outstanding mechanical and foaming performance. <i>Chemical Engineering Journal</i> , 2022, 447, 137509.	12.7	18
34	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.	3.7	8
35	Controlling stereocomplex crystal morphology in poly(lactide) through chain alignment. <i>International Journal of Biological Macromolecules</i> , 2022, 218, 22-32.	7.5	10
36	Utilization of CO ₂ as a physical blowing agent for foaming of high temperature sulfone polymers. <i>Journal of CO₂ Utilization</i> , 2022, 63, 102131.	6.8	7

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37	Non-isothermal crystallization kinetics of polypropylene/polytetrafluoroethylene fibrillated composites. <i>Journal of Materials Science</i> , 2021, 56, 3562-3575.	3.7	25
38	Structural Impact of Graphene Nanoribbon on Mechanical Properties and Anti-corrosion Performance of Polyurethane Nanocomposites. <i>Chemical Engineering Journal</i> , 2021, 405, 126858.	12.7	46
39	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.	2.4	5
40	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.	12.0	32
41	In situ visualization of crystal nucleation and growth behaviors of linear and long chain branched polypropylene under shear and CO ₂ pressure. <i>Polymer</i> , 2021, 213, 123215.	3.8	12
42	Enhanced electrical and mechanical properties of graphene nano-ribbon/thermoplastic polyurethane composites. <i>Carbon</i> , 2021, 174, 305-316.	10.3	38
43	Exploration of Polymer Calorimetric Glass Transition Phenomenology by Two-Dimensional Correlation Analysis. <i>Macromolecules</i> , 2021, 54, 473-487.	4.8	3
44	Nanocellular poly(ether- <i>block</i> -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.	5.5	53
45	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.	10.3	48
46	Nanofibrillated polymer systems: Design, application, and current state of the art. <i>Progress in Polymer Science</i> , 2021, 113, 101346.	24.7	47
47	Strong, highly hydrophobic, transparent, and super-insulative polyorganosiloxane-based aerogel. <i>Chemical Engineering Journal</i> , 2021, 413, 127488.	12.7	28
48	Recent progress in micro/nano-fibrillar reinforced polymeric composite foams. <i>Polymer Engineering and Science</i> , 2021, 61, 926-941.	3.1	35
49	Advances in electromagnetic shielding properties of composite foams. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8896-8949.	10.3	184
50	Opportunities and challenges in microwave absorption of nickel-carbon composites. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20795-20834.	2.8	29
51	LBfoam: An open-source software package for the simulation of foaming using the Lattice Boltzmann Method. <i>Computer Physics Communications</i> , 2021, 259, 107698.	7.5	11
52	An off-lattice model of the Sanchez-Lacombe Eq. of state for polymers with finite flexibility. <i>Polymer</i> , 2021, 215, 123334.	3.8	2
53	Hydrophobic Porous Polypropylene with Hierarchical Structures for Ultrafast and Highly Selective Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16859-16868.	8.0	53
54	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.	3.9	15

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55	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. <i>Chemical Engineering Journal</i> , 2021, 411, 128382.	12.7	59
56	Rheological and foaming behaviors of long-chain branched polyamide 6 with controlled branch length. <i>Polymer</i> , 2021, 224, 123730.	3.8	29
57	NPLIC: A machine learning approach to piecewise linear interface construction. <i>Computers and Fluids</i> , 2021, 223, 104950.	2.5	10
58	Microcellular injection molded outstanding oleophilic and sound-insulating PP/PTFE nanocomposite foam. <i>Composites Part B: Engineering</i> , 2021, 215, 108786.	12.0	40
59	3D fibrillated network of compatibilized linear low density polyethylene/polyamide with high melt strength and superior foamability. <i>Polymer</i> , 2021, 228, 123911.	3.8	10
60	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.	3.0	4
61	Enhanced electromagnetic wave absorption performance of polymer/SiC-nanowire/MXene (Ti3C2Tx) composites. <i>Carbon</i> , 2021, 179, 408-416.	10.3	66
62	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.	4.4	38
63	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.	3.2	17
64	Electrically percolated nanofibrillar composites with core-sheath structures from completely wet ternary polymer blends. <i>Chemical Engineering Journal</i> , 2021, 419, 129603.	12.7	5
65	Supercritical CO ₂ utilization for development of graded cellular structures in semicrystalline polymers. <i>Journal of CO₂ Utilization</i> , 2021, 51, 101615.	6.8	12
66	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.	12.4	41
67	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.	4.5	15
68	Prediction of thermal conductivity of micro/nano porous dielectric materials: Theoretical model and impact factors. <i>Energy</i> , 2021, 233, 121140.	8.8	26
69	Maintaining electrical conductivity of microcellular MWCNT/TPU composites after deformation. <i>Composites Part B: Engineering</i> , 2021, 223, 109113.	12.0	23
70	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.	6.8	27
71	The critical requirement for high-pressure foam injection molding with supercritical fluid. <i>Polymer</i> , 2021, 238, 124388.	3.8	8
72	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.	7.5	22

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73	The role of interface on the toughening and failure mechanisms of thermoplastic nanocomposites reinforced with nanofibrillated rubber. <i>Nanoscale</i> , 2021, 13, 20248-20280.	5.6	6
74	Lightweight and flexible graphene/SiC-nanowires/ poly(vinylidene fluoride) composites for electromagnetic interference shielding and thermal management. <i>Carbon</i> , 2020, 156, 58-66.	10.3	138
75	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.	14.7	99
76	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.	5.5	120
77	Insights into in-situ sol-gel conversion in graphene modified polymer-based silica gels for multifunctional aerogels. <i>Chemical Engineering Journal</i> , 2020, 392, 123813.	12.7	27
78	Highly expanded, highly insulating polypropylene/polybutylene-terephthalate composite foams manufactured by nano-fibrillation technology. <i>Materials and Design</i> , 2020, 188, 108450.	7.0	39
79	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.	6.1	77
80	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.	12.0	67
81	Surface-engineered sponges for recovery of crude oil microdroplets from wastewater. <i>Nature Sustainability</i> , 2020, 3, 136-143.	23.7	94
82	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.	9.4	37
83	Injection Molded Strong Polypropylene Composite Foam Reinforced with Rubber and Talc. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900630.	3.6	24
84	Mechanically robust and thermally insulating polyarylene ether nitrile with a bone-like structure. <i>Materials and Design</i> , 2020, 196, 109099.	7.0	9
85	In situ oils/organic solvents cleanup and recovery using advanced oil-water separation system. <i>Chemosphere</i> , 2020, 260, 127586.	8.2	38
86	Promotion of Form I α 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.	4.8	18
87	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.	8.0	112
88	Lightweight and tough PP/talc composite foam with bimodal nanoporous structure achieved by microcellular injection molding. <i>Materials and Design</i> , 2020, 195, 109051.	7.0	52
89	Highly Compressible Polymer Composite Foams with Thermal Heating-Boosted Electromagnetic Wave Absorption Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50793-50802.	8.0	47
90	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.	12.0	29

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91	Foaming Behaviors and Mechanical Properties of Injection-Molded Polylactide/Cotton-Fiber Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17885-17893.	3.7	9
92	Toughening mechanism of long chain branched polyamide 6. <i>Materials and Design</i> , 2020, 196, 109173.	7.0	24
93	Facilitating supercritical CO ₂ assisted exfoliation of graphene nanoplatelets with the polymer matrix. <i>Chemical Engineering Journal</i> , 2020, 394, 124930.	12.7	24
94	Wrong expectation of superinsulation behavior from largely-expanded nanocellular foams. <i>Nanoscale</i> , 2020, 12, 13064-13085.	5.6	32
95	PPDA-PMDA polyimide aerogels with tailored nanostructure assembly for air filtering applications. <i>Separation and Purification Technology</i> , 2020, 250, 117279.	7.9	26
96	Polyimide aerogels with novel bimodal micro and nano porous structure assembly for airborne nano filtering applications. <i>RSC Advances</i> , 2020, 10, 22909-22920.	3.6	28
97	Theoretical modeling and experimental verification of percolation threshold with MWCNTs's rotation and translation around a growing bubble in conductive polymer composite foams. <i>Composites Science and Technology</i> , 2020, 199, 108345.	7.8	38
98	Double Dianhydride Backbone Polyimide Aerogels with Enhanced Thermal Insulation for High-Temperature Applications. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900777.	3.6	35
99	The conductivity of polydimethylsiloxane/graphene nano-ribbon foam composite with elongation. <i>Carbon</i> , 2020, 162, 328-338.	10.3	19
100	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.	12.7	103
101	Ultra-lightweight, super thermal-insulation and strong PP/CNT microcellular foams. <i>Composites Science and Technology</i> , 2020, 191, 108084.	7.8	97
102	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.	3.2	25
103	In Situ Interface Design in Graphene-Embedded Polymeric Silica Aerogel with Organic/Inorganic Hybridization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26635-26648.	8.0	31
104	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.	12.0	50
105	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.	7.5	33
106	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.	5.5	70
107	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.	10.3	111
108	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.	5.4	18

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109	Effect of branching on flow-induced crystallization of poly (lactic acid). European Polymer Journal, 2019, 119, 410-420.	5.4	31
110	Lightweight and strong fibrillary PTFE reinforced polypropylene composite foams fabricated by foam injection molding. European Polymer Journal, 2019, 119, 22-31.	5.4	65
111	Preparation and characterization of high melt strength thermoplastic polyester elastomer with different topological structure using a two-step functional group reaction. Polymer, 2019, 179, 121628.	3.8	47
112	Multi-dimensional analysis of micro-/nano-polymeric foams by confocal laser scanning microscopy and foam simulations. Chemical Engineering Science, 2019, 207, 892-902.	3.8	24
113	Effects of polymer-filler interactions on controlling the conductive network formation in polyamide 6/multi-Walled carbon nanotube composites. Polymer, 2019, 178, 121684.	3.8	40
114	Foam Injection Molding of Conductive-Filler/Polymer Composites. , 2019, , 115-148.		0
115	rGO/Fe ₃ O ₄ hybrid induced ultra-efficient EMI shielding performance of phenolic-based carbon foam. RSC Advances, 2019, 9, 20643-20651.	3.6	41
116	Insight into the Directional Thermal Transport of Hexagonal Boron Nitride Composites. ACS Applied Materials & Interfaces, 2019, 11, 41726-41735.	8.0	33
117	Challenge in manufacturing nanofibril composites with low matrix viscosity: Effects of matrix viscosity and fibril content. European Polymer Journal, 2019, 121, 109310.	5.4	30
118	Thermally conductive polymer-graphene nanoplatelet composite foams. AIP Conference Proceedings, 2019, , .	0.4	1
119	Extensional Flow Resistance of 3D Fiber Networks in Plasticized Nanocomposites. Macromolecules, 2019, 52, 6467-6473.	4.8	15
120	Solubility and diffusivity of CO ₂ and N ₂ in TPU and their effects on cell nucleation in batch foaming. Journal of Supercritical Fluids, 2019, 154, 104623.	3.2	53
121	Numerical analysis of the effect of the local variation of viscosity on bubble growth and deformation in polymer foaming. Journal of Rheology, 2019, 63, 895-903.	2.6	17
122	Determination of modified polyamide 6's foaming windows by bubble growth simulations based on rheological measurements. Journal of Applied Polymer Science, 2019, 136, 48138.	2.6	26
123	Structure to properties relations of BPDA and PMDA backbone hybrid diamine polyimide aerogels. Polymer, 2019, 176, 213-226.	3.8	54
124	The Effect of Foaming on the Properties of Carbon Nanotubes/Polymer Composites. , 2019, , 235-254.		0
125	Preparation of Thermoplastic Polyurethane (TPU) Perforated Membrane via CO ₂ Foaming and Its Particle Separation Performance. Polymers, 2019, 11, 847.	4.5	21
126	Robust, ultra-insulative and transparent polyethylene-based hybrid silica aerogel with a novel non-particulate structure. Journal of Colloid and Interface Science, 2019, 548, 206-216.	9.4	25

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127	The effect of graphene-nanoplatelets on gelation and structural integrity of a polyvinyltrimethoxysilane-based aerogel. <i>RSC Advances</i> , 2019, 9, 11503-11520.	3.6	39
128	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.	3.2	73
129	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.	3.2	40
130	Bio-inspired polyethylene-based composite reinforced by thermoplastic polyurethane (TPU) fiber for aerogel production. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
131	Improving the Continuous Microcellular Extrusion Foaming Ability with Supercritical CO ₂ of Thermoplastic Polyether Ester Elastomer through In-Situ Fibrillation of Polytetrafluoroethylene. <i>Polymers</i> , 2019, 11, 1983.	4.5	20
132	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.	3.8	34
133	Poly(vinylidene fluoride) foams: a promising low- κ dielectric and heat-insulating material. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3065-3073.	5.5	110
134	Lightweight, super-elastic, and thermal-sound insulation bio-based PEBA foams fabricated by high-pressure foam injection molding with mold-opening. <i>European Polymer Journal</i> , 2018, 103, 68-79.	5.4	120
135	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.	3.7	29
136	Non-crosslinked thermoplastic reticulated polymer foams from crystallization-induced structural heterogeneities. <i>Polymer</i> , 2018, 135, 185-192.	3.8	46
137	Reinforced resorcinol formaldehyde aerogel with Co-assembled polyacrylonitrile nanofibers and graphene oxide nanosheets. <i>Materials and Design</i> , 2018, 151, 154-163.	7.0	24
138	Environmentally Friendly Poly(lactic acid)-Based Thermal Insulation Foams Blown with Supercritical CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5464-5471.	3.7	49
139	Foaming behavior of microcellular poly(lactic acid)/TPU composites in supercritical CO ₂ . <i>Journal of Thermoplastic Composite Materials</i> , 2018, 31, 61-78.	4.2	26
140	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.	5.5	48
141	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.	8.0	241
142	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.	8.0	114
143	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.	5.4	117
144	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.	10.3	169

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