

Jinchuan Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,766
citations

304743

22
h-index

315739

38
g-index

38
all docs

38
docs citations

38
times ranked

741
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-tough and super thermal-insulation nanocellular PMMA/TPU. <i>Chemical Engineering Journal</i> , 2017, 325, 632-646.	12.7	165
2	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.	7.0	161
3	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.	5.4	136
4	Modelling of thermal transport through a nanocellular polymer foam: toward the generation of a new superinsulating material. <i>Nanoscale</i> , 2017, 9, 5996-6009.	5.6	124
5	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
6	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
7	Ultra-lightweight, super thermal-insulation and strong PP/CNT microcellular foams. <i>Composites Science and Technology</i> , 2020, 191, 108084.	7.8	97
8	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.	3.8	91
9	Lightweight and strong fibrillary PTFE reinforced polypropylene composite foams fabricated by foam injection molding. <i>European Polymer Journal</i> , 2019, 119, 22-31.	5.4	65
10	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.	5.5	53
11	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
12	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.	7.5	48
13	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.	3.6	41
14	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
15	Microcellular injection molded outstanding oleophilic and sound-insulating PP/PTFE nanocomposite foam. <i>Composites Part B: Engineering</i> , 2021, 215, 108786.	12.0	40
16	Super-elastic and structure-tunable poly(ether-block-amide) foams achieved by microcellular foaming. <i>Journal of CO2 Utilization</i> , 2022, 55, 101807.	6.8	38
17	Mechanical and EMI shielding properties of solid and microcellular TPU/nanographite composite membranes. <i>Polymer Testing</i> , 2021, 93, 106891.	4.8	36
18	Microcellular PLA/PMMA foam fabricated by CO2 foaming with outstanding shape-memory performance. <i>Journal of CO2 Utilization</i> , 2021, 49, 101553.	6.8	36

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19	Rheological and foaming behaviors of long-chain branched polyamide 6 with controlled branch length. <i>Polymer</i> , 2021, 224, 123730.	3.8	29
20	Anti-shrinkage, high-elastic, and strong thermoplastic polyester elastomer foams fabricated by microcellular foaming with CO ₂ & N ₂ as blowing agents. <i>Journal of CO₂ Utilization</i> , 2022, 62, 102076.	6.8	27
21	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.	5.8	25
22	Injection Molded Strong Polypropylene Composite Foam Reinforced with Rubber and Talc. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900630.	3.6	24
23	Fibrosis mechanism, crystallization behavior and mechanical properties of in-situ fibrillary PTFE reinforced PP composites. <i>Materials and Design</i> , 2021, 211, 110157.	7.0	23
24	Ultra-ductile and strong in-situ fibrillated PLA/PTFE nanocomposites with outstanding heat resistance derived by CO ₂ treatment. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106849.	7.6	21
25	Thermal conductivity of micro/nano-porous polymers: Prediction models and applications. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	19
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.	12.7	19
27	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.	4.8	18
28	Poly(lactic 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
29	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.	7.5	15
30	Structure-gradient thermoplastic polyurethane foams with enhanced resilience derived by microcellular foaming. <i>Journal of Supercritical Fluids</i> , 2022, 188, 105667.	3.2	15
31	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.	7.0	11
32	Ultra-light, super-insulating, and strong polystyrene/carbon nanofiber nanocomposite foams fabricated by microcellular foaming. <i>European Polymer Journal</i> , 2022, 173, 111261.	5.4	11
33	Strong and flame-retardant thermally insulating poly(vinylidene fluoride) foams fabricated by microcellular foaming. <i>Materials and Design</i> , 2022, 221, 110932.	7.0	9
34	Miscible polymethyl methacrylate/polylactide blend with enhanced foaming behavior and foam mechanical properties. <i>Journal of CO₂ Utilization</i> , 2022, 61, 102065.	6.8	5
35	Poly(ether-block-amide) membrane with deformability and adjustable surface hydrophilicity for water purification. <i>Polymer Engineering and Science</i> , 2021, 61, 2137-2146.	3.1	4
36	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

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37	Strong PP/PTFE microfibril reinforced composites achieved by enhanced crystallization under CO ₂ environment. <i>Polymer Testing</i> , 2022, 112, 107630.	4.8	4