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Nanocellular polymer foams as promising high performance thermal insulation materials

DOI: 10.1016/j.eurpolymj.2015.01.039 European Polymer Journal, 2015, 65, 33-45.

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111	Surface nanobubbles and nanodroplets. 2015 , 87, 981-1035		472
110	Microcellular to nanocellular polymer foams: Progress (2004\(\mathbb{Q}\)015) and future directions \(\mathbb{Q}\)A review. European Polymer Journal, 2015 , 73, 500-519	5.2	167
109	Effects of TiO2, ZnO, and Fe3O4 nanofillers on rheological behavior, microstructure, and reaction kinetics of rigid polyurethane foams. 2016 , 133,		10
108	Identification of cell-nucleation mechanism in foam injection molding with gas-counter pressure via mold visualization. 2016 , 62, 4035-4046		14
107	Nanocellular polymer foams nucleated by core-shell nanoparticles. 2016 , 104, 22-30		20
106	Effect of foam processing parameters on bubble nucleation and growth dynamics in high-pressure foam injection molding. 2016 , 155, 27-37		41
105	Nanoporous fabrication of block copolymers via carbon dioxide swelling: Difference between CO2-swollen and nanoporous block copolymers. 2016 , 100, 19-27		5
104	Nanocellular Foams. 2016 , 205-249		
103	From micro/nano structured isotactic polypropylene to a multifunctional low-density nanoporous medium. 2016 , 6, 108056-108066		12
102	Solid-state polyetherimide (PEI) nanofoams: the influence of the compatibility of nucleation agent on the cellular morphology. 2016 , 23, 1		11
101	Effect of temperature on the mechanical behavior of mullite fibrous ceramics with a 3D skeleton structure prepared by molding method. 2016 , 90, 942-948		41
100	Poly(etherImide)/polyurethane foams reinforced with graphene nanoplatelet: Microstructure, thermal stability, and flame resistance. 2016 , 21, 436-446		9
99	Nanoporous polymeric materials: A new class of materials with enhanced properties. 2016 , 78-79, 93-1	39	111
98	Role of elastic strain energy in cell nucleation of polymer foaming and its application for fabricating sub-microcellular TPU microfilms. 2017 , 119, 28-39		62
97	Ultra-tough and super thermal-insulation nanocellular PMMA/TPU. 2017 , 325, 632-646		123
96	Modelling of thermal transport through a nanocellular polymer foam: toward the generation of a new superinsulating material. 2017 , 9, 5996-6009		98
95	Polymeric Foams. 2017 , 1-39		1

(2018-2017)

94	Reversible transition between isotropic and anisotropic thermal transport in elastic polyurethane foams. 2017 , 4, 236-241		21
93	Silica-Assisted Nucleation of Polymer Foam Cells with Nanoscopic Dimensions: Impact of Particle Size, Line Tension, and Surface Functionality. 2017 , 9, 37929-37940		32
92	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
91	Large-Area Nanolattice Film with Enhanced Modulus, Hardness, and Energy Dissipation. 2017 , 7, 9145		12
90	Entrapment of interfacial nanobubbles on nano-structured surfaces. 2017, 13, 5381-5388		21
89	Nanoporous PMMA foams with templated pore size obtained by localized in situ synthesis of nanoparticles and CO2 foaming. 2017 , 124, 176-185		20
88	Preparation and characterization of n-octadecane/poly(styrenethethyl methacrylate) phase-change microcapsule. 2017 , 130, 861-867		7
87	Preparation of porous poly(L-lactic acid)-co-(trimethylene-carbonate) structures using supercritical CO2 as antisolvent and as foaming agent. 2017 , 57, 1005-1015		2
86	Facile preparation of poly(vinyl alcohol)/graphene oxide nanocomposites and their foaming behavior in supercritical carbon dioxide. 2018 , 107, 675-684		19
85	Cellular Thermoplastic Polyurethane Thin Film: Preparation, Elasticity, and Thermal Insulation Performance. 2018 , 57, 4688-4696		30
84	Porous Structural Transformation from Closed Microcellular to Bicontinuous Nanoporous Based on Poly(phthalazinone ether sulfone ketone) Containing Biphenyl Moieties by Carbon Dioxide Foaming. 2018 , 57, 4721-4730		4
83	Thermal insulation and stability of polysiloxane foams containing hydroxyl-terminated polydimethylsiloxanes 2018 , 8, 9901-9909		18
82	Physicomechanical, friction, and abrasion properties of EVA/PU blend foams foamed by supercritical nitrogen. 2018 , 58, 673-682		15
81	Foaming of trans-polyisoprene using N2 as the blowing agent. 2018 , 29, 716-725		6
8o	Microcellular polymeric foams based on 1-vinyl-2-pyrrolidone and butyl-acrylate with tuned thermal conductivity. 2018 , 135, 45872		1
79	Microcellular foaming of chlorosulfonated polyethylene rubber and its kaolin-filled compounds with supercritical nitrogen. 2018 , 135, 45656		6
78	Hierarchical Porous Polyamide 6 by Solution Foaming: Synthesis, Characterization and Properties. 2018 , 10,		10
77	Scalable Fabrication of Thermally Insulating Mechanically Resilient Hierarchically Porous Polymer Foams. 2018 , 10, 38410-38417		48

76	Thermoplastic Foams: Processing, Manufacturing, and Characterization. 2018 ,	8
75	Deducing Multiple Interfacial Dynamics during Polymeric Foaming. 2018, 34, 8024-8030	5
74	2.32 Future Directions in Energy Materials. 2018 , 1043-1059	
73	Creating orientated cellular structure in thermoplastic polyurethane through strong interfacial shear interaction and supercritical carbon dioxide foaming for largely improving the foam compression performance. 2019 , 153, 104577	19
72	Surface nanobubbles: Theory, simulation, and experiment. A review. 2019 , 272, 101995	30
71	Preparation of Thermosetting/Thermoplastic Polyimide Foam with Pleated Cellular Structure via In Situ Simultaneous Orthogonal Polymerization. 2019 , 1, 2430-2440	8
70	Reduced-scale hot box method for thermal characterization of window insulation materials. 2019 , 160, 114026	11
69	Highly anisotropic nanocellular polymers based on tri-phasic blends of PMMA with two nucleating agents. 2019 , 255, 126587	1
68	Production of PMMA-based nanocellular polymers using low demanding saturation conditions. 2019 , 255, 126551	2
67	Submicro/nano porous epoxy resin fabricated via UV initiated foaming. 2019 , 251, 69-72	2
66	Cellular morphology evolution in nanocellular poly (lactic acid)/thermoplastic polyurethane blending foams in the presence of supercritical N2. <i>European Polymer Journal</i> , 2019 , 116, 291-301	40
65	Anisotropy in nanocellular polymers promoted by the addition of needle-like sepiolites. 2019 , 68, 1204-1214	8
64	Polymer-Based Nano-Composites for Thermal Insulation. 2019 , 21, 1801162	27
63	Fabrication and cell morphology of a microcellular poly(ether imide)Barbon nanotube composite foam with a three-dimensional shape. 2019 , 136, 47501	7
62	Thermal-Insulation, Electrical, and Mechanical Properties of Highly-Expanded PMMA/MWCNT Nanocomposite Foams Fabricated by Supercritical CO2 Foaming. 2019 , 304, 1800789	13
61	Microcellular foamed aromatic polyamides (aramids). Structure, thermal and mechanical properties. European Polymer Journal, 2019 , 110, 9-13	14
60	Hollow-Structured Materials for Thermal Insulation. 2019 , 31, e1801001	93
59	Multi-objective optimization of heat transfer mechanisms of microcellular polymeric foams from thermal-insulation point of view. 2019 , 9, 21-29	35

(2020-2020)

58	A 3D model to predict the influence of nanoscale pores or reduced gas pressures on the effective thermal conductivity of cellular porous building materials. 2020 , 43, 277-300	4
57	Thermal properties, permeability and compressive strength of highly porous accumulated ceramsites in the foundation of salt tank for concentrate solar power plants. 2020 , 164, 114451	2
56	Thermal Transport in 3D Nanostructures. 2020 , 30, 1903841	54
55	Investigation of the energy absorption properties of cross-linked polyethylene foams. 2020 , 903, 012059	
54	Amorphous Polymers ond Blends with Organic Foaming-Aid Structured Additives in Supercritical CO, a Way to Fabricate Porous Polymers from Macro to Nano Porosities in Batch or Continuous Processes. 2020 , 25,	4
53	Foaming behavior of 1-vinyl-2-pyrrolidonethethyl methacrylate copolymers under ScCO2. 2020 , 39, 203-219	1
52	Fabrication of high porosity Nanocellular polymer foams based on PMMA/PVDF blends. 2020 , 195, 109002	9
51	Adsorption under nanoconfinement: a theoretical-computational study revealing significant enhancement beyond the Langmuirian levels. 2020 , 22, 19600-19605	3
50	Increasing cell density/decreasing cell size to produce microcellular and nanocellular thermoplastic foams: A review. 2020 , 0021955X2095930	17
49	Highly Ordered Nanocellular Polymeric Foams Generated by UV-Induced Chemical Foaming. 2020 , 9, 1433-1438	2
48	Experimental and Numerical Analyses of n-Pentane Solubility and Diffusivity in Polystyrene/Poly(methyl methacrylate) Blends. 2020 , 65, 4596-4604	2
47	Optically-switchable thermally-insulating VO2-aerogel hybrid film for window retrofits. 2020 , 278, 115663	15
46	Multifaceted applications of cellulosic porous materials in environment, energy, and health. 2020 , 106, 101253	31
45	Tensile mechanics of polymeric foam ribbons. 2020 , 86, 106513	
44	Wrong expectation of superinsulation behavior from largely-expanded nanocellular foams. 2020 , 12, 13064-13085	9
43	A dimensional stable hydrogel-born foam with enhanced mechanical and thermal insulation and fire-retarding properties via fast microwave foaming. 2020 , 399, 125781	9
42	Development of Poly (Lactide Acid) Foams with Thermally Expandable Microspheres. 2020, 12,	15
41	Change in Conductive-Radiative Heat Transfer Mechanism Forced by Graphite Microfiller in Expanded Polystyrene Thermal Insulation-Experimental and Simulated Investigations. 2020 , 13,	3

40	A Facile and Green Approach Toward Preparation of Nanocellular Poly(Butylene Succinate)/Hydroxyl-Functionalized Graphene Composite Foam Induced by Nonisothermal Crystallization. 2020 , 26, 461-474	2
39	Bubble Seeding Nanocavities: Multiple Polymer Foam Cell Nucleation by Polydimethylsiloxane-Grafted Designer Silica Nanoparticles. 2020 , 14, 1623-1634	19
38	TEOS and Na2SiO3 as silica sources: study of synthesis and characterization of hollow silica nanospheres as nano thermal insulation materials. 2020 , 10, 1833-1844	3
37	Effect of MWCNT carboxyl functionalization on the shear rheological and electrical properties of HMS-PP/MWCNT foams. 2021 , 57, 210-235	1
36	Designer Core-Shell Nanoparticles as Polymer Foam Cell Nucleating Agents: The Impact of Molecularly Engineered Interfaces. 2021 , 13, 17034-17045	3
35	Multiscale characterization of effective thermal properties by an asymptotic homogenization method of a biosourced epoxy resin with two porosity levels. 2021 , 91, 3773-3797	
34	In-Situ Visualization of the Cell Formation Process of Foamed Polypropylene under Different Foaming Environments. 2021 , 13,	2
33	Chemistry, Processing, Properties, and Applications of Rubber Foams. 2021 , 13,	5
32	Self-foaming polymers: Opportunities for the next generation of personal protective equipment. 2021 , 145, 100628	5
31	Supercritical CO2 utilization for development of graded cellular structures in semicrystalline polymers. 2021 , 51, 101615	5
30	On the interaction of infrared radiation and nanocellular polymers: First experimental determination of the extinction coefficient. 2020 , 600, 124937	7
29	Polyolefinic nanocomposite foams: Review of microstructure-property relationships, applications, and processing considerations. 0021955X2097975	2
28	A path to nano-cellular foams: Constrained cell nucleation and growth in micro-/nano-layered structures. 2021 , 235, 124272	1
27	Carbon as a Solution for Nanocellular Foam Superinsulation.	
26	Highly Stable and Nonflammable Hydrated Salt-Paraffin Shape-Memory Gels for Sustainable Building Technology. 2021 , 9, 15442-15450	1
25	Carbon as a solution for nanocellular foam superinsulation. 2021 , 189, 319-319	O
24	Nanocellular foaming of poly (methyl methacrylate) with chlorodifluoromethane (HCFC-22)/CO2 binary mixtures as a model blowing agent. 2022 , 181, 105502	1
23	Ultra-elastic and super-insulating biomass PEBA nanoporous foams achieved by combining in-situ fibrillation with microcellular foaming. 2022 , 57, 101891	1

Ultra-Elastic and Super-Insulating Biomass PEBA Nanoporous Foams Achieved by Combining In-Situ Fibrillation with Microcellular Foaming.

21	Tuning High and Low Temperature Foaming Behavior of Linear and Long-Chain Branched Polypropylene via Partial and Complete Melting 2021 , 14,	2
20	Foaming of Polylactic Acid/Cellulose Nanocrystal Composites: Pickering Emulsion Templating for High-Homogeneity Filler Dispersions. 2022 , 4, 111-120	0
19	Lignin demethylation for modifying halloysite nanotubes towards robust phenolic foams with excellent thermal insulation and flame retardancy. 2022 , 139, 52019	2
18	Foaming Performance of Linear Polypropylene Ionomers.	2
17	Control of the Cell Structure of UV-Induced Chemically Blown Nanocellular Foams by Self-Assembled Block Copolymer Morphology. 2022 , 55, 5176-5187	O
16	Utilization of CO2 as a physical blowing agent for foaming of high temperature sulfone polymers. 2022 , 63, 102131	1
15	Thermal conductivity of low-density micro-and nanocellular poly(methyl-methacrylate) (PMMA): Experimental and modeling. 2022 , 221, 110938	O
14	Micronization as a solution for enhancing the thermal insulation of nanocellular poly(methyl-methacrylate) (PMMA). 2022 , 125397	O
13	Porous polyetherimide fiber fabricated by a facile micro-extrusion foaming for high temperature thermal insulation. 2022 , 65, 102247	O
12	Evaluation of methods to accurately characterize the thermal conductivity of micro-and nanocellular polymers based on poly(methyl-methacrylate) (PMMA) produced at lab-scale. 2023 , 117, 107842	0
11	Supercritical CO 2 -assisted extrusion foaming: A suitable process to produce very lightweight acrylic polymer micro foams.	О
10	One More Step towards a Circular Economy for Thermal Insulation Materials Development of Composites Highly Filled with Waste Polyurethane (PU) Foam for Potential Use in the Building Industry. 2023 , 16, 782	O
9	Tailorable thermoplastic insulation foam composites enabled by porous-shell hollow glass spheres and expandable thermoplastic microspheres. 2023 , 267, 125652	О
8	Production and Application of Polymer Foams Employing Supercritical Carbon Dioxide. 2022, 2022, 1-23	O
7	Solid and gas thermal conductivity models improvement and validation in various porous insulation materials. 2023 , 187, 108164	O
6	Deformation analysis in impact testing of functionally graded foams by the image processing of high-speed camera recordings. 2023 , 108014	0
5	A review of the state-of-the-art on thermal insulation performance of polymeric foams. 2023 , 41, 101808	O

4	Ultrasound and H2O assisted scCO2 foaming technology for preparation of PS/PMMA composite foams with ultra-lightweight and super thermal-insulation. 2023 , 169, 107527	О
3	Image-aided physical and compression characterisation of expanded polystyrene geofoam. 1-13	O
2	Effect of Ethylene Comonomer Content on the Foam Processing Window of Long-Chain Branched Polypropylene. 2023 , 5, 2417-2429	O
1	An innovative modified calcium chloride hexahydrateBased composite phase change material for thermal energy storage and indoor temperature regulation. 2023 , 6,	О