

Special Issue

Structure, Morphology and Crystallization of Polymer Composites

Message from the Guest Editor

The Special Issue “Structure, Morphology, and Crystallization of Polymer Composites” will address a complete comprehension of all aspects of the crystallization process in heterogeneous thermoplastic materials. Composite materials are of great interest in different applications due to their resistance combined to lightness, and the emerging renewed importance of the crystallization process in the advanced sectors of aerospace. Original papers are invited on any type of structure or morphology, from micro- to nano-scale, arising under diverse processing conditions, also discussing structure-processing correlations. The effect of the reinforcement on the nucleation density, crystallization, and degradation kinetics of polymer matrixes, are of particular importance for advanced composites. Novel strategies to control the structure and the morphology or accelerating crystals growth, surface modifications of fillers, crystallization models accounting for temperature gradients or heat pathways, and any influence on the crystallization behavior of innovative composite materials are very welcome.

Guest Editor

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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