Special Issue

Polymer Blends and Compatibilization 2018

Message from the Guest Editors

Polymer Blends are a class of multiphase polymer materials that present intermediary properties among their components. Blending of commercial polymers is the most efficient and cheap method to produce new polymeric materials that meet specific requirements. However, achieving the desired properties—mechanical strength, toughness, durability, etc—depends mainly on the final morphology achieved from the blends which, in turn, depends on the chemical nature and molecular structure of the macromolecules of the components. The different chemical nature of the components leads, in most cases, to bad morphology with voids, defects and a lack of adhesion between the phases and consequent poor properties. Moreover, the dispersed droplets can coalesce during processing, changing the morphology of the blends. The morphology must be "stabilized" in order to avoid any change during processing. For further information, please click: http://www.mdpi.com/si/materials/poly_blends_compat
Prof. Francesco La Mantia

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Deadline for manuscript submissions

closed (30 November 2018)

Materials

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CiteScore 6.4
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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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