Special Issue

Heterogeneous Materials Based on Polymers

Message from the Guest Editors

This Special Issue is dedicated to Heterogeneous Materials Based on Polymers. At this point, it is important to remark that it is the long-range elasticity, high strength, and high viscosity which define the macromolecular nature of organic polymers, depending on the inter-molecular forces' intensity. These properties emerge as a direct consequence of the size and constitution of the covalent structures of the macromolecules, determined by the interchain interactions at the distance of a primary bond (thermosetting polymers), or by secondary interactions between sufficiently large polymer chains able to induce strong interchain forces that endow the matter with enough structural integrity to be useful and handled (thermoplastic polymers), which—conversely to thermosetting polymers—can soften and flow under temperature and shear fields. The combination of these polymers with other substances with the aim of obtaining lower costs in a shorter time frame, rather than simply correcting an undesired property is still a growing and promising research direction, and is being applied to obtain novel outstanding materials.

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Deadline for manuscript submissions

closed (20 December 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/117377

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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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