

Special Issue

Surface Modifications for Advanced Polymer Composites

Message from the Guest Editors

As you already know, fiber-reinforced polymers are intensively studied because of their light weight coupled with high specific strength and stiffness. Moreover, a wide variety of isotropic or anisotropic properties may be modified by changing the type, volume fraction, arrangement, and aspect ratio of the fibers and the chemical nature of the polymer. The applications span the fields of both industrial (particularly transportation) and civil engineering, together with biomedical devices. One outstanding problem is interface tailoring strongly affecting the properties, particularly the mechanical ones (both strength and toughness). The present Special Issue will have a particular focus on the so many surface treatments, both physical and chemical, of the fibers that allow the tailoring of the interface and their influence on the composite properties. The issue is open to all contributions where new surface modifications strategies and the influence of interface tailoring on polymer composite properties are studied with both the aim to deepen knowledge of processes and to find new applications. The objective is to highlight the progress in this outstanding research field.

Guest Editors

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Message from the Editor-in-Chief

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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