

Special Issue

Advanced Polymer-Coated Materials: Fabrication, Characterization and Applications

Message from the Guest Editor

Numerous advanced or functional polymers in the form of thin films can be applied onto the surface of various materials which utilize different coating techniques, such as dip coating, roll-to-roll coating, spin coating, etc. Accordingly, the surface properties (adhesion, wettability, and biocompatibility) are modified, and the morphological, physical-mechanical, and/or optical properties changed. Moreover, the special functionalities, such as flame retardancy, super-hydrophobicity, thermal and electro-conductivity, antibacterial, UV- and EMI-shielding functionalities, etc., can be tuned regarding the final applications. This Special Issue aims to cover the most recent experimental and theoretical developments in the field of polymer-coated materials (membranes, films, fibers, textiles, composites, metals, glass, etc.) with focus on their fabrication, characterization, functional properties, and applications. Researchers from both academia and industry are invited to contribute manuscripts in the form of original full-length articles, communications, and critical reviews.

Guest Editor

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About the Journal

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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