Special Issue

Surface Modification to Improve Properties of Materials

Message from the Guest Editor

Surface properties of modern materials are usually inadequate so they should be modified prior to application or further processing such as coating with functional materials. Both morphological properties and chemical structure/composition should be modified in order to obtain a desired surface finish. Various treatment procedures have been employed and many are based on application of non-equilibrium gaseous media, especially gaseous plasma. Although such treatments have been studied extensively in past decades, and actually commercialized, the exact mechanism of interaction between reactive gaseous species and solid materials is still poorly understood. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome. Critical reviews in specific modern topics such as bio-compatibility of advanced polymers and polymer composites are particularly welcome. Keywords

- surface properties
- nanostructuring
- functionalization
- grafting

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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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