

Special Issue

Surface Modifications and Coatings: Processing, Characterization, and Applications

Message from the Guest Editor

Coatings and surface treatments have been applied for centuries to protect a material from the environment and/or to enhance its aesthetic appearance. Coatings have the capability of changing the surface properties of a material. From these basic applications, advances in surface science and engineering have allowed developing new multifunctional coatings with applications in a wide variety of industries. Depending on the application, a different combination of properties can be desired. Coatings and surface treatments can provide many different properties, such as self-cleaning, antibacterial, anti-icing, electrical or thermal conductivity, and can enhance wear resistance and the performance of a material in biological environments or under extreme temperatures, such as thermal barrier coatings. It is a scientific and engineering challenge to enhance some of those properties or to combine them with others for a specific application. We look forward to receiving your manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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