Special Issue

Multifunctional Coatings: From Protective to Bio-Applications

Message from the Guest Editors

With the progress of nanotechnology and production methods, coatings today are becoming incredibly attractive materials due to the possibility for them to have a unique combination of very different properties, which may respond to a wide variety of demands and requirements, but also to an attractive set of characteristics that are economically desirable, e.g., being lighter, cheaper, more durable, and more versatile than most bulk materials. Excellent biocompatibility and thermal, electrical, chemical, and mechanical properties, together with tribological response optimization, are among some of the most attractive properties that it is possible to tailor into different kinds of coating systems and synthesis methods. Considering this growing need for multifuctionality in order to respond to the increasing demands of industry and materials/device responses, this Special Issue aims to collect articles reporting on recent developments dealing with preparative methods, design, properties, structure, characterization, as well as promising applications of multifunctional coatings.

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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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