

Special Issue

Surface Functionalization Processes for New Multifunctional Materials

Message from the Guest Editor

The ability to control, modify, and tune surface chemical and physical properties of materials is extremely important when specific functionalities are sought. The functionalization of inorganic nanostructured materials is highly appealing for biosensing, drug delivery, bioimaging, theranostics, and is also a promising approach for water treatment and environmental bioremediation. Finally, organic monolayers can tune the electronic properties of metals and semiconductors for the realization of advanced electronic and optoelectronic devices. The common goal is to modify the surface properties by adding specific chemical groups or nanostructures, typically a very thin film, to achieve new features, towards a new class of advanced multifunctional materials for applications in sensing, electronics, and biomedical. This Special Issue will explore the most promising techniques and materials that focus on surface functionalization, to integrate different properties towards multifunctionality. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews related to structural analysis 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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