

Special Issue

Functional Materials/Surfaces in Biomedical Applications

Message from the Guest Editors

Functional materials have been developed for numerous fields, including energy, automobile, space technology, and life sciences, and can be found in many applications such as coating, particles, and block materials. In biomedicine, the need for naturally derived and/or naturally inspired materials with defined medical functionalities is growing rapidly. The functional materials are designed being applied to replace tissue functions, to improve the biocompatibility of medical devices, and to reduce the foreign body reactions especially by implantable devices, to avoid undesirable interactions in the human body, to avoid contamination, and to fulfill certain therapeutic tasks such as drug delivery. These applications require not only newly developed materials but also a thoroughly established assessment route toward the potential clinical evaluation and approval by the authorities. This Special Issue intends to publish articles on novel functional materials, functional surfaces, material engineering, design, characterization, and biological/clinical evaluations.

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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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