



Surface Functionalization Processes for New Multifunctional Materials

Guest Editor:

Dr. Roberto Verucchi

Institute of Materials for
Electronics and Magnetism,
National Research Council, IMEM-
CNR, Trento Unit, I-38123 Trento,
Italy

Deadline for manuscript
submissions:

closed (10 August 2022)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)