Special Issue

Smart Nanomaterials: Molecular Design for Advanced Medicine

Message from the Guest Editors

The marriage between nanotechnology and biomaterials science promises to revolutionize medical practice. Actually, nanomaterials, featuring superior size-tunable properties, high intrinsic reactivity, and sizes comparable with those of functional moieties in biology can establish strong interactions with biological systems, thus triggering key biological events and ultimately driving cells fate. Materials design at the nanoscale allows fine tuning of their physical-chemical properties, providing unique tools for scientists to unveil biochemical pathways and set up more personalized treatment with enhanced therapeutic efficacy. This Special Issue aims to collect theoretical, experimental, and review contributions to show the most recent advances in nanomaterials in medicine as well as the challenges and opportunities provided by the materials design at the nanoscale in the field of biomedical devices. For more information, please click the following link:
https://www.mdpi.com/journal/materials/special_issues/smart_nano_molecular_design

Guest Editors

Dr. Giuseppina Luciani
Department of Chemical, Materials and Production Engineering (DICMaPI), University of Naples Federico II, p. le V. Tecchio 80, 80125 Naples, Italy

Prof. Dr. Brigida Silvestri
Department of Chemical, Materials and Production Engineering (DICMaPI) University of Naples Federico II Piazzale Tecchio, 80 80125 Napoli, Italy

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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