Special Issue

Advanced Materials for Micro/Nano/Bio-Devices and Their Applications

Message from the Guest Editors

Nanomedicine has emerged in recent years to meet real needs relying on nanotechnologies, such as drug delivery in the form of nanoparticles and the targeting of cancer cells without affecting healthy cells, for example. Given the current situation with the epidemics (COVID-19, flu, etc.), it becomes necessary to find ways to detect bacteria and viruses invisible to the naked eye, to protect us. Advanced materials for bio-devices at micro- or nano-metric scales are of particular interest for basic science as well as for applied research in the field of molecular or bacterial biosensing. Microsystems play a very important role in many biological and environmental applications. The integration of advanced materials in such miniaturized systems offers new opportunities for molecular or bacterial detection where high sensitivity and selectivity to the analyte are required. This Special Issue is dedicated to new trends related to the use of advanced materials for biomedical applications.

Guest Editors

Dr. Réda Yahiaoui

Sciences and Technical UFR Electronic Department Laboratoire de Nanomedicine, Imagerie, Thérapeutique, EA4662 University of Franche Comté, 25030 Besançon, France

Dr. Guillaume HERLEM

Nanomedicine Lab, Imaging and Therapeutics EA4662, University of Franche-Comte, Besancon, France

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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 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.

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

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