Special Issue

New Insights into Hybrid Biomaterials

Message from the Guest Editors

The development of hybrid biomaterials is attracting constantly increasing interest for applications in the biomedical sector, such as tissue engineering, regenerative medicine, drug delivery or gene therapy, and design of diagnostic systems. Frequently, intrinsic shortcomings of a single chemical render the development of hybrid biomaterials as the most appropriate way to achieve the desired and necessary properties for selected bioapplications, allowing for interaction with key components of living systems. Hybrid biomaterials demonstrate excellent tunable mechanical and physicochemical properties, including viscoelasticity and strength, as well as improved biological activity, including cellular biocompatibility and tissue-inductive ability.

The Special Issue will include contributions that demonstrate how an understanding of the basic chemical and physical phenomena may direct materials design and stimulate ideas for new or improved processing techniques, in order to obtain biomaterials with desired structural features and properties.

Guest Editors

Prof. Dr. Vassilios Roussis
Dr. Efstathia Ioannou
Dr. Leto-Aikaterini Tziveleka

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

mdpi.com/journal/materials

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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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