Special Issue

New Generation Materials for Advanced Electronic and Biomedical Applications

Message from the Guest Editors

The design and synthesis of new inorganic and organic materials and composites with predetermined optical, electrical, mechanical and magnetic properties for electronic and biomedical applications is crucial. This Special Issue aims to gather recent research results regarding the appropriate initial composition of a wide variety of organic and inorganic materials, as well as their composites. It will also address the preparation of these composites via a range of experimental techniques. This Special Issue also aims to provide a brief review of the methods most often used to characterize the phase composition, structure and physical properties of the obtained materials, as well as introduce methods that optimize the process of characterizing and manipulating the surface of the synthesized materials. The scope of this Special Issue includes, but is not limited to, the following topics: 1. Bulk glasses and glass-ceramics for electronic and opto-electronic applications; 2. Bulk glasses, ceramics and composites for biomedicine; 3. Surface modification and methods for the characterization of materials.

Guest Editors

Prof. Dr. Plamen Petkov

Physics Department, University of Chemical Technology and Metallurgy, Sofia, Bulgaria

Dr. Ruzha Harizanova

Physics Department, University of Chemical Technology and Metallurgy, Sofia, Bulgaria

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

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