Special Issue

Glass-Ceramics: Structural Investigations and Luminescence Properties

Message from the Guest Editors

Glass-ceramics are actually under intense investigations as they present many promising advantages concerning the corresponding glasses by enhancing their properties (for example, chemical, mechanical, and optical) and allowing combinations of different properties inherent to the existence of at least one crystal phase in a glassy matrix. In this Special Issue, different aspects of glass-ceramics elaboration using classical (nucleation and growth) and specific crystallization processing (as spark plasma sintering (SPS) or microwave heating) methods will be detailed. Their crystallization behavior from the glass, their structural characterization, their physical (including thermal, mechanical, and optical) properties and consequently the evidence of the relationships between their structure and their properties (including optical ones as luminescence), will be discussed. It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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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.

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