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Preparation and Application of Nanostructured Glass–Ceramics and Nanocomposites

Guest Editor:

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editor

We invite you to contribute to the Special Issue of *Nanomaterials*, which is devoted to various preparation and characterization methods of different kinds of nanocomposites and nanostructured glass–ceramic systems, including: materials with special electrical and magnetic properties, systems of minimal thermal expansion, with special optical properties, machinable glass–ceramics, high-strength and high-toughness systems, bioactive glass–ceramics, and others (not mentioned above).

In the Special Issue, we hope to present a big variety of experimental methods used to study physical properties of nanostructured glass–ceramics and nanocomposites. The issue is open for contributions related to various aspects of transport phenomena in glass–ceramics and nanocomposites, such as thermal, electronic, ionic, and mixed conductivity.

The Special Issue is mainly devoted to the processing, characterization, and application of nanostructured glass–ceramics (e.g., in all-solid-state batteries and many other devices), but contributions focused on basic research and computer simulations are also very welcome.

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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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