

Manufacturing and Properties of New Special Glass- and Ceramic-Based Composites

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Message from the Guest Editors

In recent years, glass- and ceramic-based composite materials have been of great interest. One of the newest research areas focuses on nanocomposites and thin films used as coatings showing special properties. These materials are used in medicine and energy storage fields, which are both receiving a great deal of interest at present.

It is the aim of this Special Issue to provide a peer-reviewed forum for the publication of original papers and authoritative review and opinion papers dealing with the most important issues facing the use of glass- and ceramic-based composites in clinical practice and as energy storage materials.

Topics of interest for this Special Issue include (but are not limited to) the synthesis, fabrication, structure, morphology, physical properties, biological properties, performance, and technological application of novel special glass- and ceramic-based composite materials. Original research papers which present new scientific and technological knowledge and reviews of high interest to the international community are welcome.



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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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