

Special Issue

Thermal Analysis of Glass-Ceramic Materials

Message from the Guest Editors

Thermal properties are important parameters for describing a material, especially one that is subjected to high-temperature processing. As a material, ceramics are often subjected to sintering, a process which determines the properties of the finished material. As ceramic materials are used in operating conditions marked by elevated temperatures, investigating their thermal properties during their operation determines their application. The thermal analysis of materials provides a lot of important information about the processes at work and their potential areas of application. It makes it possible to predict the behaviour and properties of a material. This Special Issue will focus on the characterisation and description of the thermal properties of materials, e.g., the crystallization processes in the glass-ceramics group. This is a broad group of materials with a wide range of applications. Examples of research areas include the following:

- The characteristics of the sintering process;
- The processes occurring during firing;
- Thermal analyses of fired materials;
- The kinetics of crystallisation;
- The application of glass-ceramics in light of their thermal properties.

Guest Editors

Dr. Katarzyna Pasiut

Department of Ceramics and Refractory Materials, AGH University of Science and Technology, Kraków, Poland

Prof. Dr. Janusz Partyka

Department of Ceramics and Refractory Materials, AGH University of Science and Technology, Kraków, Poland

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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