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Phase Transitions and Dynamics Studies of Nanocomposite Materials

Guest Editors:

Dr. Szymon Starzonek
Laboratory of Physics, Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia

Prof. Dr. Aleš Iglič
Laboratory of Physics, Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia

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Message from the Guest Editors

Nanocomposites have applications in optoelectronics, electronics, bioengineering, and electrical engineering. By combining their numerous properties, nanocomposites can be used to solve some of the important problems of recent years, such as reducing greenhouse gas emissions, developing renewable energy systems, or increasing the strength and biocompatibility of medical implants. Crystalline materials play an important role in nanocomposites. They are an important component of the system and usually show a change in physical properties. The nano size causes a change in behaviour under the influence of external factors. Therefore, it is important to study these properties in complex systems and under extreme conditions. It is also worth mentioning that nanocrystallites play a key role in electrical and thermal conductivity, as well as in the sintering process of ceramic materials, which directly affects the macroscopic properties of the materials. The aim of this Special Issue is therefore to gather experts from many fields to highlight the latest research trends, but above all to demonstrate the multidisciplinary nature of the subject and standardizing its legitimacy.

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Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, Italy

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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Contact Us

Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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crystals@mdpi.com
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