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Novel Nanocomposite: Synthesis and Application

Guest Editors:

Dr. Pierfrancesco Cerruti

Institute for Polymers, Composites and Biomaterials (IPCB)—CNR, Via Campi Flegrei, 34, 80078 Pozzuoli, Italy

Dr. Arash Moeini

School of Life Sciences Weihenstephan, Technical University of Munich, 85354 Freising, Germany

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Message from the Guest Editors

The development of nanocomposites (NCs) and polymer nanocomposites (PNCs) represents a breakthrough in the application of novel materials in academia and industrial environments. Both NCs and PNCs exhibit remarkably enhanced properties with respect to their parent matrices, in terms of structural and mechanical properties, flame resistance, and electrical behavior, providing further outstanding functionalities to the materials. This Special Issue is focused on the most recent advances in the characterization, synthesis. and applications nanocomposite materials. We invite original contributions and review articles addressing recent progress in the field of NCs and PNCs, including systems designed for advanced structural applications or endowed with novel, exciting functional properties, e.g., self-healing and shape memory, as well as responsive nanocomposites, whose properties and functions can even be controlled remotely by physical, chemical, or biological external stimuli. Progress in this field is rapidly expanding, and advanced nanocomposite systems hold great promise for breakthroughs in materials science and energy, environmental, health, and biomedical applications.













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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Message from the Editor-in-Chief

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