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Composite Materials: Functional Materials for Modern Technologies

Guest Editors:

Dr. Carlos Pecharroman
Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, E-28049 Madrid, Spain

Dr. João Elias Figueiredo Soares RODRIGUES
European Synchrotron Radiation Facility, BP220, 38000 Grenoble, France

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Message from the Guest Editors

The purpose of this Special Issue is to provide an up-to-date overview of functional composites with both passive and active non-conventional properties. In passive materials, we aim to understand all systems that present a single response to a stimulus, such as resistors, capacitors, magnetic cores, battery cathodes, acoustic devices, electromagnetic metamaterials, and plasmonics. In recent years, new composites exhibiting coupled phenomena have arisen. These materials can be considered as active or tuneable composites, as their response to some stimuli may be modified by certain actions. This category includes composites showing magnetoresistance and magnetoimpedance, magneto-electric couplings, and electro and magneto-acoustic devices.

Different aspects of these composites can be addressed, such as theoretical modelling, microstructural characterization, manufacturing and the characterization of new properties.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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