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Graphene-Based Materials, Their Composites and Potential Applications

Guest Editors:

Dr. Maria Cristina Ramirez
Instituto de Cerámica y Vidrio, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain

Prof. Maria Isabel Osendi
Instituto de Cerámica y Vidrio, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain

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Message from the Guest Editors

Monolayer graphene was first isolated 15 years ago, attracting the attention of scientific community, because of its exceptional electrical, optical, thermal, and mechanical properties. However, it is evident that a full understanding of its fundamental physics and properties has been gained, as well as a significant advancement in scaling-up the production methods. In parallel, new routes for the preparation of bulk porous graphene materials and foams that envisage fascinating applications in areas such as environmental science, bio-medicine, or energy, have grown without stopping.

This Special Issue is focused on presenting the current research on graphene-based polymer and ceramic composites, with tentative applications in diverse fields, such as energy production and storage, environment protection, catalysis, biomedicine, and wearable electronic and sensing devices. Concurrently, recent advancements in the preparation routes, the functionalization and consolidation methods for thin films, and bulk porous and 3D-printed graphene-type structures are the chief aims of the present Special Issue.

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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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