



## Graphene-Based Materials, Their Composites and Potential Applications

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Deadline for manuscript  
submissions:

**31 March 2021**

### 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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## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers fourteen comprehensive topics: Biomaterials; Energy Materials; Composites; Structure Analysis; Porous Materials; Manufacturing Processes; Advanced Nanomaterials; Smart Materials; Thin Films; Catalytic Materials; Carbon Materials; Materials Chemistry; Materials Physics; Optics and Photonics; Corrosion; Building Materials. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles.

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**CiteScore** (2019 Scopus data): **3.5**, which equals rank 173/460 in 'General Materials Science'.

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