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Synthesis and Characterization of Various Nanomaterials Based on Graphene Derivatives

Guest Editors:

**Dr. Masoud
Khaleghiabbasabadi**

Institute for Nanomaterials,
Advanced Technology and
Innovation, Technical University
of Liberec, 46001, Liberec, Czech
Republic

Dr. Daniele Silvestri

Centre for Nanomaterials,
Advanced Technologies and
Innovation, Technical University
of Liberec, Studentská 1402/2,
461 17 Liberec 1, Czech Republic

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Message from the Guest Editors

Graphene derivatives, modified versions of graphene with tailored properties, offer enhanced functionality and versatility. Their synthesis involves the functionalization, doping, or hybridization of graphene with other materials to impart the desired properties. Their applications span a wide range of sectors, including electronics, energy storage, catalysis, and environmental remediation.

This Special Issue aims to explore the latest advancements in the synthesis, characterization, and applications of graphene derivatives.

Topics include, but are not limited to, the following:

- Novel synthesis approaches for graphene derivatives;
- Functionalization and doping strategies to tailor graphene properties;
- Characterization techniques for assessing graphene derivative properties;
- Advanced applications of graphene derivatives in organic chemistry, catalysts, electronics, energy, biomedicine, and environmental computational modelling and theoretical studies of graphene derivative behaviour;
- Challenges and opportunities for scaling up the production of graphene derivatives for commercialization;
- Environmental, health, and safety considerations of graphene derivative use.



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Special Issue



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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
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