Special Issue

Synthesis and Application of Carbon-Based Nanomaterials and Topological Polymers

Message from the Guest Editor

The dynamic development and rapid technological progress is enabled by the usage of modern materials based on the unique chemical and structural properties of compounds in their synthesis. Carbon-based nanomaterials and topological polymers have received special attention, both in terms of the possibilities of creating and modelling their structure and properties, and the wide range of applications such as medicine, pharmacy, analytics, nanotechnology, nanoengineering, and micromechanics.Among carbon-based nanomaterials, graphene, quantum dots, and nanodiamonds—as well as well-known fullerenes, nanotubes, porous and activated carbons, and all their derivatives—still attract significant interest. The great diversity of topological polymers includes linear, branched, cyclic and other spatial architecture materials as a result of special molecules used in their synthesis. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, reviews and communications covering recent advances in preparation, characterization, and applications of carbon-based nanomaterials, topological polymers and other functional materials, are welcomed.

Guest Editor

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Deadline for manuscript submissions

closed (10 October 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/122013

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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