Special Issue

Functionalized Graphene-Based Nanocomposites for Energy Applications

Message from the Guest Editor

The Special Issue “Functionalised Graphene-Based Nanocomposites for Energy Applications” aims at achievements in theory and practice in that field. The considered applications of graphene-based nanocomposites are systems for reversible storage of hydrogen, supercapacitors, high-performance electrochemical energy storage devices, solar energy conversion facilities, auxiliary systems in the power industry, improving inertness to the environment, etc. Prospects and future challenges in these fields are still strategic issues worldwide. Of particular interest are recent achievements in the field of 3D graphene nanostructures, their manufacturing, internal functionalisation of nanoporous materials, as well as their structural and functional characterisation. Original scientific articles and reviews regarding theoretical issues and experimental research results as well as problems of industrial scaling of graphene-based functional nanocomposites technologies focused on energy applications are warmly welcome.

Guest Editor

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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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