Special Issue: Novel Materials and Their Synthesis

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Papers were presented by international scholars in the area of novel materials and their synthesis. This Special Issue is a collection of the peer-reviewed 25 papers from the Conferences of 8th and 9th IUPAC International Conference on Novel Materials and their Synthesis (NMS-VIII and NMS-IX), which was held during 2012 and 2013 in China.

It is well known that innovation is the main drive to push the development of science and technology in our daily life. These two conferences cover the following fields:

- Innovative chiral and achiral compounds, and their novel preparation methods, including catalytic ones, properties, and applications.
- Innovative bio- and bio-based materials and composites, and their preparation, properties, and applications.
- Innovative polymers such as conducting, semiconducting ones, supramolecular (supermolecular, dynamers), and their preparation, properties, and applications.
- Innovative energy systems including fuel cells, solar cells, lithium batteries, and supercapacitors, and their key materials, performance, and applications.
- Innovative nanomaterials such as one-, two-, and three-dimensional (1d-, 2d-, and 3d-) nanomaterials, and their characterization and application.
- New ceramic materials such as superconductors, electronic, dielectronic, ferroelectric, piezoelectric, optoelectric and magnetic materials, their preparation, and applications.
- Novel materials related to coal, carbon, fullerene, graphene, and graphite, and their applications.
- Other novel materials including perfumes, agricultural chemicals, photosensitive materials, displaying materials,

fine ceramics and alloys, their preparation, properties, and applications.

- New characterization methods and application in fundamental and applied researches on new materials.

Here, the selected 25 papers address some main directions for the above fields. It is hoped that this Special Issue will provide researchers, engineers, and policy-makers with valuable information.

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The Editors also offer great thanks to the authors who responded spontaneously to the invitation to submit their work for review for possible inclusion in this Special Issue. Special thanks are given to the referees for their careful reviewing and suggestions improving the presentations and the discussions in the papers.

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The Editors