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Synthesis, Morphology, and Properties of Functional Nanomaterials

Guest Editor:

Assoc. Prof. Andrey S. Mereshchenko
Institute of Chemistry, Saint-Petersburg State University, 26 Universitetskii pr., Petergof, St. Petersburg 198504, Russia

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Message from the Guest Editor

The properties of nanomaterials are typically determined not only by composition but by the size and morphology of nanoparticles. This feature is used to design materials with specific photoactive, conductive/semiconductive, mechanical, and other properties. In microelectronics, the design of nanowires, single-electron transistors, diodes, and other nanoelectronics allows improving the computer performance. Functional nanomaterials play an important role in cleaning the environment, and molecular sieves and selective sorbents are widely used for gas separation. Functional nanomaterials have gained great popularity in medicine. Functional nanomaterials are opening up a whole new area of research of molecular design.

This Special Issue, collecting topics from an interdisciplinary viewpoint, is aimed at providing a resourceful background for readers, addressing the design of new functional materials and the devices based on them. Further, authors are encouraged to submit original works on the mechanisms of formation of nanocrystals and the effect of synthesis parameters on the morphology and properties of such materials.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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