Special Issue

Sol-Gel Technology Applied to Materials Science: Synthesis, Characterization and Applications

Message from the Guest Editor

Rapid development of the world highly demands new materials, nanostructures and multicomponent composites with specific chemical and physical properties, which meet the requirements of modern technologies. The employment of appropriate synthetic approaches is crucial for the preparation of inorganic materials with designed microstructure and properties. Among the others, the sol-gel method is very well known for its versatility, simplicity, time- and cost-efficiency. The mixing of starting materials on an atomic level provides high homogeneity and stoichiometry of the products, allowing to obtain high-quality materials at low temperature. The versatility of sol-gel method allows for the development of materials for a wide range of applications in electronics, optoelectronics, catalysis, biomedicine and many other areas. The scope of this Special Issue of Materials is focused on, but not limited to, the preparation, characterization and application of functional inorganic materials, as well as hybrid materials, which are important in the field of electronics, optics, biomedicine and others.

Guest Editor

Dr. Aleksej Zarkov

Institute of Chemistry, Faculty of Chemistry and Geosciences, Vilnius University, Naugarduko 24, LT-03225 Vilnius, Lithuania

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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Message from the Editor-in-Chief

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.

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

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