Special Issue

Novel Clustered Materials

Message from the Guest Editor

The increased interest in clustered materials is associated with its unique physical and chemical properties due to the peculiarities of their electronic structure. In particular, the energy spectrum of clustered materials could have significant differences from the spectrum of bulk materials, which makes them attractive for photonics applications. Cluster materials potentially become a substitute for many materials of optics and photonics applications due to the possibility of predicted changes in properties during the controlled formation of different structures. These methods are characterized by high chemical purity, sufficient simplicity, and relatively low cost, which allows us to consider laser synthesis of new clustered materials promising for industrial applications. In this Special Issue, modern trends of laser synthesis and structural study of novel clustered materials with the prospect of their application in photonics are highlighted and discussed. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

Prof. Alexey Povolotskiy

Institute of Chemistry, Saint Petersburg State University, St Petersburg, Russia

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

mdpi.com/journal/materials

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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.

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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