

Special Issue

Preparation, Characterization and Applications of Zeolite-Based Materials

Message from the Guest Editors

Zeolites are an interesting group of minerals which, due to their specific internal structure, possess numerous unique properties that determine their practical usage. Zeolites in their natural and modified form play a significant role in environmental engineering, agriculture, civil engineering or pharmaceutical and cosmetic industry.

Zeolites can be applied in the processes of gas, water, and wastewater purification, reclamation of degraded soils, building material production, catalysis, energy storage, pharmaceuticals, and cosmetics production. These examples of zeolite usage are directly connected with their properties, including ion exchange, absorbability, adsorption, and porosity.

The Special Issue will include the current state-of-the-art and results of the newest scientific trends in the field of zeolite application in specialized material production. Reports on the unique properties of zeolites, their modification and functionalization, as well as their potentially new directions of application are also welcome.

Guest Editors

Prof. Dr. Małgorzata Franus

Department of General Construction, Faculty of Civil Engineering and Architecture, Lublin University of Technology, Nadbystrzycka 40, 20-618 Lublin, Poland

Dr. Lidia Bandura

Department of Geotechnical Engineering, Faculty of Civil Engineering and Architecture, Lublin University of Technology, Nadbystrzycka 40, 20-618 Lublin, Poland

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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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