# Special Issue

# Synthesis, Characterization and Applications of Nanocomposites in Adsorption and Heterogeneous Photocatalysis

## Message from the Guest Editor

Compared to conventional composites nanocomposites are multiphase solid materials where one or more of the phases have at least one nano-sized dimension (i.e. with less than of 100 nm). The properties of nanocomposites show synergistic improvement in comparison to the properties of those of the component phases individually or can be completely new, unknown in the parent constituent materials. Nanocomposites have attracted tremendous attention due to their unique morphological and structural properties that qualify them to be used in many areas, for example as effective adsorbents or heterogeneous photocatalysts in environmental protection.

This Special Issue “Synthesis, Characterization and Applications of Nanocomposites in Adsorption and Heterogeneous Photocatalysis” will present the latest developments in nanocomposites design, new methods of synthesis, and applications is adsorption and photodegradation of various environmental pollutants. Adsorption measurements can be carried out by batch methods and dynamic inverse chromatography methods. Catalysts and photocatalysts researches can be performed in heterogeneous conditions in the liquid or gas phase.

## Guest Editor

Ass. Prof. Dr. Sci. Piotr M. Słomkiewicz
Jan Kochanowski University, Kielce, Poland

## Deadline for manuscript submissions

closed (30 September 2020)

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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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