



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

Guest Editor:

Ass. Prof. Dr. Sci. Piotr M. Słomkiewicz

Jan Kochanowski University,
Kielce, Poland

Deadline for manuscript
submissions:

closed (30 September 2020)

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 in 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.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)