



Development of Advanced Adsorption and Catalytic Materials

Guest Editor:

Dr. Agnieszka Gładysz-Płaska

Faculty of Chemistry, Maria Curie-Skłodowska University, Maria Curie-Skłodowska Sq. 3, 20031, Lublin, Poland

Deadline for manuscript
submissions:

closed (20 November 2023)

Message from the Guest Editor

Dear Colleagues,

Adsorption and catalytic materials are important in a variety of industrial applications, including environmental remediation, energy production, and chemical synthesis. The materials used for adsorption can be organic or inorganic and can be of different shapes and sizes, such as powders, granules, or fibers. Moreover, the development of hybrid adsorbents, which combine different types of adsorption materials, has led to materials with improved adsorption properties and selectivity, further increasing their potential applications. Common examples of adsorption materials include activated carbon, zeolites, silica gel, alumina, and ion exchange resins.

In general, the effectiveness of an adsorption material depends on factors such as its surface area, pore size, and chemical composition, as well as the properties of the molecules or particles being adsorbed. In many cases, adsorption and catalytic materials are used together to achieve specific chemical transformations. This Special Issue seeks to provide a platform for a thorough discussion of the most recent advances in the design, characterization, and application of adsorption and catalytic materials.





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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

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Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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