Special Issue

Adsorptive and Catalytic Materials Used in Environmental Treatment

Message from the Guest Editors

Adsorption and catalysis technologies play a crucial role in water treatment, with applications in water pollution control, wastewater treatment, hydrogen production, advanced oxidation processes, electrosorption, electrocoagulation, and more. In recent years, new adsorption materials, catalysts, and treatment technologies have emerged in response to the growing demands for water treatment, driving rapid advancements in this field. However, enhancing the efficiency and stability of these technologies, optimizing reaction mechanisms, and gaining a deeper understanding of active reaction sites remain key challenges that need to be addressed.

This Special Issue aims to compile the latest research on adsorption and catalysis application in water treatment, covering various aspects, including synthesis strategies, reaction mechanisms, and technical applications. We invite experts and scholars to contribute their research findings on the wide-ranging applications of adsorption and catalysis in water treatment and share innovative technologies and methodologies, fostering further development and applications in this field.

Guest Editors

Dr. Lei Huang

Prof. Dr. Hongguo Zhang

Dr. Zhenxing Wang

Dr. Rongkui Su

Dr. Feng Chen

Deadline for manuscript submissions

20 October 2026



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/234376

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

mdpi.com/journal/ materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





About the Journal

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

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)