Special Issue

Applications of Catalytic Materials in Energy and Environmental Areas

Message from the Guest Editors

In recent years, the world has faced increasingly urgent energy and environmental challenges and a higher demand for clean energy and water. Improved nanomaterials and nanotechnologies could be applied to such issues, benefiting the sustainable development of society. This Special Issue will act as a forum allowing scientists and engineers to exchange the latest knowledge on the use of nanomaterials for catalysis in energy and environmental fields. The following topics are of particular interest for this Special Issue: catalytic synthesis of future energy sources, including hydrogen; catalytic carbon dioxide reduction; catalytic synthesis of ammonia; catalytic degradation of pollutants in wastewater; air-purification catalysts; and other energy or environmental applications. Researchers are encouraged to submit relevant studies with an emphasis on the application of catalysts for environmental purification of future energy synthesis.

Guest Editors

Dr. Derek Hao

Dr. Wenjun Jiang

Dr. Xiaojuan Bai

Deadline for manuscript submissions

closed (20 August 2023)

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

mdpi.com/journal/materials

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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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