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Recent Developments in Catalytic Materials

Guest Editors:

Dr. Wanneng Ye

State Key Laboratory of Bio-Fibers and Eco-Textiles, Qingdao University, Qingdao, China

Prof. Dr. Yongcheng Zhang

College of Physics, Qingdao University, Qingdao, China

Dr. Tao Jiang

Department of Environmental and Sustainable Engineering, University at Albany, State University of New York, Albany, NY 12222, USA

Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on recent developments in catalytic materials, including photocatalysts, piezocatalysts, and tribocatalysts, which are a promising class of functional materials for environmental remediation and energy conversion applications.

Photocatalysts, piezocatalysts, and tribocatalysts have demonstrated superior performance in various catalytic applications such as water splitting, CO₂ reduction, and wastewater treatment by degrading organic pollutants under visible light irradiation and mechanical energy. The unique electronic and structural properties of catalysts, as well as their surface modification capabilities, make them a versatile platform for designing efficient and selective catalysts.

This Special Issue aims to provide a comprehensive overview of recent advances in photocatalysts, piezocatalysts, and tribocatalysts, including their synthesis, characterization, and catalytic applications.

We hope that this Special Issue will stimulate further research in the field of photocatalysis, piezocatalysis, and tribocatalysis and promote their practical applications in environmental and energy-related areas.





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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, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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