

Special Issue

Sustainable Functional Materials for Energy and Environmental Applications

Message from the Guest Editor

This Special Issue will cover a wide spectrum of functional applications. We invite submissions focusing on key energy applications, such as advanced materials for energy generation and conversion (including photovoltaics, thermoelectrics, and catalysts for sustainable fuel production like water splitting, CO₂ reduction, and fuel cells) and high-performance energy storage (like next-generation batteries, supercapacitors, and novel hydrogen storage solutions). Simultaneously, we seek contributions addressing critical environmental challenges, including materials for water remediation (novel adsorbents, advanced membranes, and catalysts for degrading pollutants), air purification and carbon capture (sorbents for CO₂ capture and VOC removal), waste valorization (innovative catalysts for upcycling plastic and industrial waste), and functional materials for sensitive environmental sensing. We invite researchers, scientists, and engineers from across academia and industry to contribute their latest breakthroughs.

Guest Editor

Dr. Shun Lu

Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences, Chongqing 400714, China

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

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Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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