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Advanced Functional Materials toward Sustainable Development Technologies: Prospect and Challenges

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Deadline for manuscript submissions:
closed (10 April 2024)

Message from the Guest Editors

With the continuous development of nanoscience, the precise regulation and goal-oriented application of functional materials has played an increasingly important role in promoting sustainable development. Therefore, research into new functional materials and their applications is being accelerated in several domains to further enhance the greening of industrial processes. This Special Issue aims to provide a good platform for the exchange of advanced functional materials research for sustainable development technologies.

Research papers and review papers are welcome. Possible research topics include, but are not limited to, the following:

- Experimental and theoretical studies in the fields of green heterogeneous catalysis and molecular catalysis;
- Environmental chemical and process engineering, including pollution control and separation processes;
- Structure and performance relationships for advanced functional materials;
- Novel materials for energy storage and conversion and advanced applications;
- Other technologies related to advanced functional materials for sustainability.

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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.

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