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Functional Materials for Renewable Energy Technologies

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Message from the Guest Editors

Dear Colleagues,

In recent years, growing energy demands, along with increasing concerns of environmental pollution, excessive greenhouse gas emissions, and accelerating global warming, have drawn significant attention towards renewable energy technologies. Substantial progress has already been achieved in this field, thanks to the research and development of functional materials that enable cost-effective, durable, and highly-efficient renewable energy conversion and storage. However, this is an ongoing effort, as more work is needed in the discovery of new and improvement of existing materials, to enable large-scale, economically viable deployment of such devices and technologies.

This Special Issue covers topics of functional materials for various renewable energy technologies, including:

- batteries and supercapacitors
- organic and inorganic photovoltaics
- water splitting and photocatalysis
- solar fuels and fuel cells
- thermal and mechanical energy harvesting



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Special Issue