Special Issue

Functional Materials for Renewable Energy Technologies

Message from the Guest Editors

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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Deadline for manuscript submissions

closed (28 May 2019)

ChemEngineering

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.0

mdpi.com/si/15297

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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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