

Special Issue

Advances in Fuel Cells and Metal-Air Batteries

Message from the Guest Editors

New electrochemical energy devices are of key importance to the green energy transformation of human society. Among them, fuel cells and metal-air batteries are very similar to each other, one using fluidic fuels such as hydrogen gas and hydrocarbon fuels while the other uses solid metal fuels such as zinc, magnesium, and aluminium. Compared with conventional batteries, both of them can achieve much higher energy density as well as better environmental friendliness, which are suitable for various applications ranging from megawatt-level power plants and kilowatt-level electric vehicles to watt-level portable electronics. Currently, the associated technologies are still under rapid development, focusing on improving energy efficiency, durability, as well as reducing capital cost. To make contributions to this trend, this Special Issue of *Energies* welcomes all types of research papers related to fuel cell and metal-air battery technologies, including material study, device innovation, system development, and real applications. Both experimental work and numerical modelling will be considered, while perspective reviews papers are also highly desired.

Guest Editors

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Deadline for manuscript submissions

closed (5 May 2023)



Energies

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Impact Factor 3.2
CiteScore 7.3



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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