

Special Issue

Fuel Cells

Message from the Guest Editor

Summary

Fuel cells allow the direct conversion of chemically stored energy into electrical energy by means of electrochemical oxidation of gaseous, liquid or solid chemical substances. Depending on the type of electrolyte being used, we distinguish between Alkaline Fuel Cells (AFC), Phosphoric Acid Fuel Cells (PAFC), Proton Exchange Membrane Fuel Cells (PEMFC), Molten Carbonate Fuel Cells (MCFC) and Solid Oxide Fuel Cells (SOFC). The preferred fuel for fuel cells is hydrogen. But since this is not a natural resource, hydrogen has to be produced either externally or internally, i.e. outside or inside the fuel cells. The latter case leads to the very attractive concept of direct fuel cells, which are able to convert hydrocarbons into hydrogen, e.g. via internal reforming. The special issue covers current trends and future developments of fuel cell technology, including both chemical as well as electrical engineering aspects.

Deadline for manuscript submissions

closed (31 December 2009)



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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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