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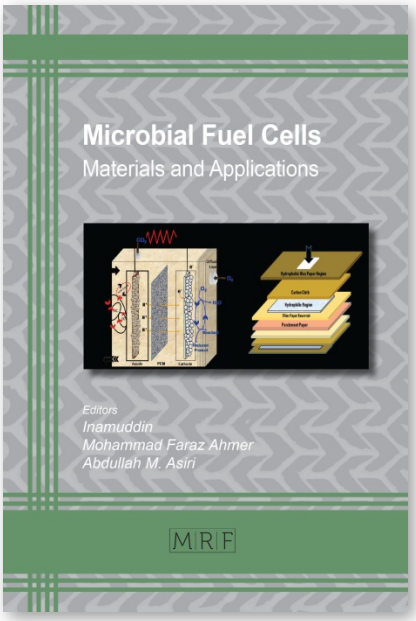
Materials Research
Solid State Physics and Engineering

Microbial Fuel Cells

Materials and Applications



Eds. Inamuddin, Mohammad Faraz Ahmer and Abdullah M. Asiri

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Microbial fuel cells are very promising as renewable energy sources. In addition to electricity generation, microbial fuel cells can be used for wastewater treatment, desalination and biofuel production. The book addresses characterization techniques and operating conditions of microbial fuel cells, as well as the usefulness of various types of anode and cathode materials.

Keyword: Microbial Fuel Cells, Renewable Energy Sources, Biocatalysts, Wastewater Treatment, Desalination, Biofuel Production, Micropower Generation, Microalgae, Carbon Nanotube Anodes, Carbon Nanotube Cathodes, Biofuel Production from Food Waste, Microbial Desalination Cells, Microbial Ethanol Production, Microbial Propanol Production

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Materials Research Foundations Vol. 46 / **BISAC:** TEC021000 / **BIC/Thema:** TGM
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Summary:

Microbial fuel cells are very promising as renewable energy sources. They are based on the direct conversion of organic or inorganic materials to electricity by utilizing microorganisms as catalysts. These cells are well suited for applications that require only low power, e.g. ultracapacitors, toys, electronic gadgets, meteorological buoys, remote sensors, digital wristwatches, smartphones and hardware in space and robots. In addition to electricity generation, microbial fuel cells can be used for wastewater treatment, desalination and biofuel production. The book addresses characterization techniques and operating conditions of microbial fuel cells, as well as the usefulness of various types of anode and cathode materials.

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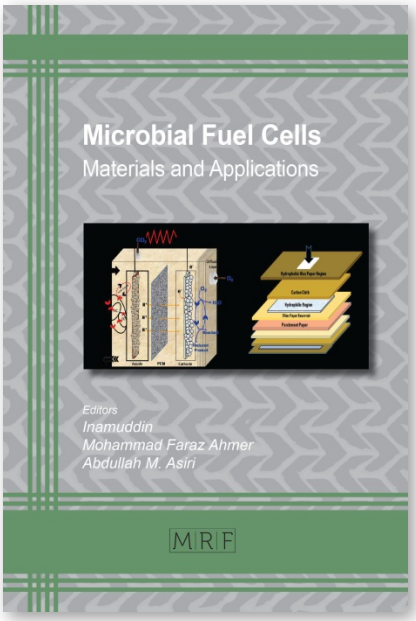

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Handbook / color print, paperback

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