

Advanced Reading

Enzymatic Fuel Cells

Materials and Applications

Eds. Inamuddin, Mohammad Faraz Ahmer, Mohd Imran Ahamed, Abdullah M. Asiri

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The book presents various aspects of biofuel cells including fuel cell electrochemistry, use of enzyme and enzyme immobilization techniques, use of materials such as mesoporous materials, graphene composites, conducting polymer composites and applications of biofuel cells.

Keyword: Fuel Cells, Biofuel cells, Enzyme Catalysts, Energy Conversion, Fuel catalysis, Sucrose Fuel, Fructose Fuel, Glucose Fuel, Implantable Gadgets, Biosensors, Pacemakers, Catheters, Defibrillators, Insulin pumps, Artificial Muscles, Mesoporous Materials, Graphene Composites, Conducting polymers, Fuel Cell Electrochemistry, Fuel Cell Applications

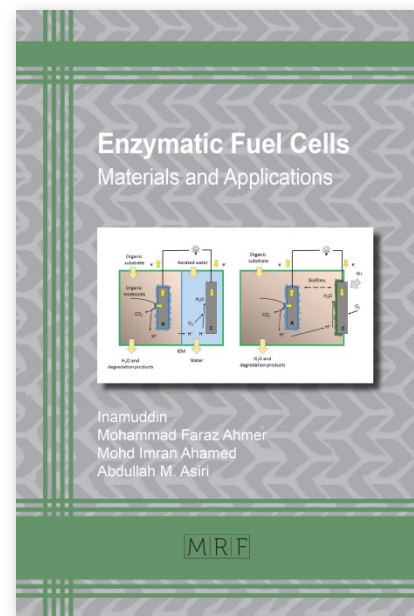
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Enzymatic biofuel cells, in contrast to conventional energy systems, use enzymes as catalysts for the conversion of chemical energy into electrical energy. These enzymes can also catalyze fuels such as sucrose, fructose and glucose. In addition to their use as catalysts, they are biocompatible in nature. Due to this fact, enzymatic biofuel cells have many interesting applications, such as implantable gadgets (biosensors, pacemakers, catheters, defibrillators, insulin pumps, self-controlled artificial muscles etc.).

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Handbook / color print, paperback

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