Biological fuel cells

Naeem Ullah Presented a paper entitled "Biological Fuel Cell as Green Alternative Approach for Sustainable Bioenergy product" at the conference, while Dr. Rooh Ullah presented a paper on "Facile Functionalization of Green ...

McMahon et al. use a dual molecular isotope approach to reveal highly siloed carbon pathways in coral reef food webs. Multiple snapper species rely on food webs based on distinct primary ...

Microbial fuel cells (MFCs) have emerged as a promising technology to convert biomass and organic waste into electricity, offering an eco-friendly and sustainable alternative to fossil fuels. ...

Metabolism, the sum of chemical reactions that take place in living cells, providing energy for life processes and the synthesis of cellular material. Living organisms are unique in that they extract energy from their ...

This study systematically compares the environmental and economic performance of three wastewater treatment systems: constructed wetlands (CWs), microbial fuel cells (MFCs), and their integration (CW-MFC). Lab ...

Biological processes within cells are highly controlled, often involving molecules that act like switches to turn activities on or off. In apoptosis, regulators determine whether a cell lives or ...

In this context, the chapter on advancing hydrogen and fuel cell technologies for aviation provides a technical overview of the challenges associated with scaling up fuel cell systems, addressing ...

This study examined the removal of methylene blue and glucose as substrate and co-substrate respectively, from an aqueous solution by the application of a dual cell fungal-based microbial ...

?????????????? ???????(Microbial Fuel Cell,MFC)??????????????,??????????????????????: ????:??????????????,?????? ...

The proton exchange membrane (PEM) is an integral part of the microbial fuel cell (MFC), which utilizes protons produced via metabolic pathways to assist in effective cell functioning. This ...

Microbial fuel cells (MFCs) benefit from the introduction of iron in the anode, as its multiple valence states and high electron-catalytic activity led to improved power densities in MFCs.

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