

Special Issue

Development and Application of Biofuel Cells and Related Sensors

Message from the Guest Editor

Biofuel cells (BFCs) as an efficient energy harvesting category have enabled new insight into portable, wearable, and implantable devices. The biocatalysts employed by BFCs take the place of precious noble metal catalysts and exhibit properties of low biotoxicity, high efficiency, and selectivity. BFCs are usually recognized as an interesting branch of energy conversion technologies, from chemical energy or photoenergy into electricity, which can be of importance in implantable and wearable electronics. Furthermore, BFCs can be a self-powered sensor itself based on the substrate concentration and environment conditions. Accordingly, this Special Issue aims to present the progress on biofuel cells with high energy density, long operation lifetime, and diverse resources. In addition to the properties of biofuel cells, we also seek research on broader applications in small devices, not limited by the implantable electronics, wearable devices, and self-powered robotics.

Guest Editor

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