

Development of Enzyme-Based Biosensor for Environmental Monitoring

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Abstract : Biosensors, combining a selective biological recognition element and a sensitive transducer, are versatile analytical tools applied more and more in different fields, such as medicine, food quality and safety control, and environment pollution monitoring. The intention of this article is to reflect the advances and describe the trends on biosensors for environmental applications. Biosensors are useful analytical tools for environmental monitoring, capable of providing results in real time, simple to use, portable and cost-effective. Biosensors, detecting and measuring specific compounds or compound classes such as pesticides, hazardous industrial chemicals, phenols and toxic metals.

Keywords : Enzyme, Biosensors, pollutants, Environmental monitoring