Special Issue

Application of Microorganisms in Pollutant Degradation

Message from the Guest Editors

Different anthropogenic activities release pollutants of diverse nature to the environment, including heavy metals, pesticides, hydrocarbons, pharmaceuticals, and industrial chemicals, among many others. The pollutant's presence is recognized as an important concern worldwide due to its high impact on ecosystems and human health. Developing effective, low-cost, and environmentally friendly strategies to remove these pollutants is urgently necessary. Microorganisms have a great potential for the degradation or removal of different pollutants present in the environment, offering natural and often cost-effective solutions for cleaning up contaminated environments. Recently, the immobilization of microorganisms over natural origin materials is a biological approach that has proven a significant increase in the degradation efficiency of several pollutants. This Special Issue aims to gather novel articles and comprehensive reviews on microbial-based strategies for the degradation of pollutants and the treatment of different polluted environments. Topics include but are not limited to

- bioremediation
- biosorption
- environmental microbiology
- pollutant degradation

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