Special Issue

Toxicity Assessment and Remediation of Industrial Wastewater

Message from the Guest Editors

Environmental protection is one of the main issues in our current society. In this line, industrial wastewaters play an important role because of the large amounts of these effluents generated annually. Furthermore, industrial effluents are subjected to strict environmental legislation, which will become more stringent in virtue of several international cooperation projects involved in environmental protection, such as 'H2020 Horizon'. For these reasons, adequate management of industrial wastewaters is a key issue, and conventional pollution prevention strategies become necessary. In this scenario, there are a plethora of technologies described in the scientific literature regarding wastewater treatments. Concretely, current methods for wastewater purification include precipitation, coagulation/flocculation, sedimentation, flotation, filtration, membrane processes, electrochemical techniques, ion exchange, biological processes, and chemical reactions, among others. Nevertheless, most of these techniques imply some disadvantages and limitations such as secondary pollution, complicated treatment processes, high cost, and energy consumption.

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