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Usage of novel plant material for removal of lead (Pb) from wastewater

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Treatment of wastewater and reuse, is a solution for the ever increasing demand for water and choosing a suitable and sustainable method is important, for meeting the sustainable goals of any country. Alongside the treatment process comes the removal of heavy metals that may pose a threat to the environment and human health. This research investigates the biosorption of heavy metal e.g. Lead (Pb), from wastewater, using novel plant material. The fruit of the plant is used as the biosorbent material, and the optimum conditions, such as pH, amount of plant material, metal concentration, and contact time, were investigated. Results, demonstrated that 90% of the Lead was removed at the following optimum conditions, pH 3, 0.7 g of the adsorbent plant material, 2.5 mg/L metal concentration and 2 h contact time respectively.

Biography

Mohamed Abouleish has completed his PhD from Tennessee Technological University (USA), MSc from University of Northern Iowa (USA). He is an Associate Professor at the American University of Sharjah (UAE), and previously worked as Product Coordinator at Shimadzu Scientific Instruments (USA). He has published several research works in reputed journals, such as Water Quality Research Journal and PloS ONE. The results of the research was presented at both international and regional conferences, such as International Conference on Environmental Sustainability, Development, and Protection (Spain) and National Meeting of the American Chemical Society (USA).

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