

Green Technology for the Treatment of Industrial Effluent Contaminated with Dyes

Authors : Afzaal Gulzar, Shafaq Mubarak, M. Zia-Ur-Rehman

Abstract : Industrial waste waters put environmental constrains to the water quality of aqueous reserves. Number of techniques has been used to treat them before disposal to water bodies. In this work a novel green approach is study by using poultry waste eggshells as a low cost efficient adsorbent for the dyes present in industrial effluent of textile and paper industries. The developed technique not only used to treat contaminated waters but also resulted in the utilization of poultry eggshell waste which in turn assists in solid waste management. Batch sorption studies like contact time, adsorbent dose, dye concentration, temp and pH has been conducted to find the optimum adsorption parameters.

Keywords : green technology, solid waste management, industrial effluent, eggshell waste utilization, waste water treatment

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