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Sorption Of Methylene Blue From Aqueous Solution by Orange Peel

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In this study, orange peel, an agricultural waste, was evaluated for its suitability for the removal of Methylene blue, a cationic dye, from aqueous solutions. The experienced natural waste is orange peel which falls within the range of citrus peel, and that can be in competition with conventional materials: coal, silica, alumina etc. The characterization of this material has shown the possibility of its developing. The tests were carried out on the methylene blue, they showed a remarkable elimination in the first 10 minutes. The influence of various experimental parameters, such as the initial concentration of the dye, adsorbent dose and temperature on dye removal was discussed. Experimental results showed that the adsorption of methylene blue 10 mg/L, 0.2 g in orange peels attained 95% at ambient temperature.

Biography:

She is Professor at Department of Process Engineering, in University of Mohamed Cherif Messaadia in Souk-Ahras, Algeria