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Photocatalytic Activity of Copper Doped on Bismuth Oxychloride Based for Degradation Rhodamine B under UV-light Irradiation

The aim of research was successfully synthesized copper doping on bismuth oxychloride based by microwave assisted radiation method power 300 watt for 15 minutes. Defining conditions of samples preparation copper were doped following 0, 2.5, 5.0 and 7.5 %mol. All samples were examined for their properties and characteristics using X-ray diffraction (XRD), Field Emission scanning Electron Microscope (FE-SEM), UV-Visible Spectrophotometer, Energy Dispersive X-Ray Spectroscopy (EDX). Examination for degradation of Rhodamine B (RhB) under UV light irradiation. Found result, the most effective sample in degradation of RhB by using copper doped on bismuth oxychloride 5.0 %mol the best reaction with highest percentage of photodegradation RhB 64 % for 90 minutes irradiation time.

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