## Facile Synthesis of Ag3PO4 Photocatalyst with Varied Ammonia Concentration and Its Photocatalytic Activities For Dye Removal

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facile co-precipitation method with the starting material of AgNO3 and Na2HPO4.12H(2)O. The
variation of ammonia concentration was designed at 0.00, 0.05, 0.15, and 0.30 M. The products we characterized using X-ray diffraction, UV-diffuse reflectance spectroscopy, and scanning electron microscopy. The photocatalytic activities were evaluated using the Rhodamine B degradation under blue light irradiation. The effect of calcination, pH condition, and visible light source irradiation was carried out in the experiment. The highest photocatalytic activity was found in the sample prepared using the addition of ammonia solution at the concentration of 0.05 M. This photocatalytic activity was activity was achieved at the sample prepared without the ammonia. The effective condition photocatalytic activity was achieved at the sample prepared without calcination, degradation at pH 7 and under blue light irradiation. Copyright (c) 2019 BCREC Group. All rights reserved
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