Synthesis of Mesoporous Bi₂WO₆ Flower-Like Spheres with Photocatalysis Properties under Visible Light

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3D mesoporous Bi₂WO₆ flower-like spheres, which compose of nanosheets, were successfully synthesized by simple hydrothermal treatment. Bi₂WO₆ flower-like spheres exhibited high photocatalytic activity to tetracycline under visible light irradiation, because of the mesoporous structure, narrowed band gap and high surface area. Therefore, 3D mesoporous Bi₂WO₆ flower-like spheres can be a promising candidate material to be applied to the field of wastewater treatment.

Keywords: Bi₂WO₆; photocatalysis; visible light; tetracycline.

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