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**Zn₃(OH)₂V₂O₇·2H₂O/g-C₃N₄: a novel composite for efficient
photodegradation of methylene blue under visible-light irradiation**

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ABSTRACT

In this work, we used a facile method to prepare a series of Zn₃(OH)₂V₂O₇·2H₂O/g-C₃N₄ composites in a 70 °C water bath for 10 h and characterized them by X-ray diffraction (XRD), scanning electron microscopy (SEM), UV-vis diffuse reflectance spectroscopy (DRS), Brunauer-Emmett-Teller (BET), and photoluminescence (PL). Degradation of methylene blue (MB) and phenol were carried out to evaluate the photocatalytic activities of samples under visible light irradiation. Presence of Zn₃(OH)₂V₂O₇·2H₂O increased surface areas and promoted

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