

Synthesis of Ag₃PO₄-polyvinyl alcohol hybrid microcrystal with enhanced visible light photocatalytic activity

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Abstract	The Ag ₃ PO ₄ /polyvinyl alcohol (Ag ₃ PO ₄ /PVA) hybrid photocatalysts were successfully synthesized using a coprecipitation method using AgNO ₃ , Na ₂ HPO ₄ 12H(2)O and PVA as starting materials. The products emerged in a cubic (p-43n) structure. The photocatalytic performances for the decomposition of Rhodamine B (RhB) under the blue light irradiation strongly depended on PVA content. The excellent photocatalytic activity may be due to the enhanced photo-induced charge separation brought on by the strong interaction of PVA with Ag ₃ PO ₄ . (C) 2015 Elsevier B.V. All rights reserved.
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