

The surface modification of Ag₃PO₄ using anionic platinum complexes for enhanced visible-light photocatalytic activity

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First Author	
Last Author	
Authors	Sulaeman, U; Permadi, RD; Ningsih, DR; Diastuti, H; Riapanitra, A; Yin, S;
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Abstract	The surface modification of Ag ₃ (PO ₄) ₂ using anionic platinum complexes was successfully prepared. The starting materials of chloroplatinic chloride hydrate, silver nitrate, and sodium dihydrogen phosphate dodecahydrate were used in the experiments. The Ag ₃ PO ₄ (AP) and defect-Ag ₃ PO ₄ (DAP) were firstly synthesized using the coprecipitation method. These samples were suspended in chloroplatinic chloride solution under sonication to obtain the doping of anionic platinum complexes in Ag ₃ PO ₄ (AP/Pt) and defect-Ag ₃ PO ₄ (DAP/Pt). Anionic platinum complexes successfully substituted the phosphate site of Ag ₃ PO ₄ and significantly improved the photocatalytic activity. (C) 2019 Elsevier B.V. All rights reserved.
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Author	ANUNG RIAPANITRA, S.Si, M.Sc., PhD