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

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Abstract	The surface modification of Ag(3)PO(4)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 Ag3PO4 (AP) and defect-Ag3PO4 (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 Ag3PO4 (AP/Pt) and defect-Ag3PO4 (DAP/Pt). Anionic platinum complexes successfully substituted the phosphate site of Ag3PO4 and significantly improved the photocatalytic activity. (C) 2019 Elsevier B.V. All rights reserved.
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