

Data of XPS in incorporating the platinum complexes dopant on the surface of Ag₃PO₄ photocatalyst

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Abstract	<p>These data inform about the XPS profile of Ag(4)d, P(2)p, and O1s from the samples of Ag₃PO₄, defect-Ag₃PO₄, Ag₃PO₄/PtCl₆²⁻ and defect-Ag₃PO₄/PtCl₆²⁻ which were denoted as AP, DAP, AP/Pt, and DAP/Pt, respectively. These samples were made by co-precipitation method using the starting material of silver nitrate (AgNO₃()), disodium hydrogen phosphate dodecahydrate (Na₂HPO₄.12H₂O), and hexachloroplatinic acid hexahydrate (H₂PtCl₆(6).6H₂O) for platinum complexes dopant. The water solution and mixed waterethanol solution for dissolving the AgNO₃ were used for free defect and defect samples, respectively. The Ag4d, P2p, and O1s of these samples were investigated using the XPS. The deconvolutions of O1s peak were analyzed using the software of XPSPEAK Version 4.1. The modification of Ag₃PO₄ by defect and platinum complexes dopant had changed the curve profile of Ag4d, P2p and O1s. Two types of oxygen of 0-1 and 0-2 were observed in O1s spectrum. The ratios of 0-2/0-1 with the value of 0.25, 0.32, 0.49 and 0.51 were found in the sample of AP, DAP, AP/Pt, and DAP/Pt, respectively. These data are related to the research article "The surface modification of Ag₃PO₄ using anionic platinum complexes for enhanced visible-light photocatalytic activity" [1]. (C) 2019 The Author(s). Published by Elsevier Inc.</p>
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