The highly active saddle-like Ag3PO4 photocatalyst under visible light irradiation

Publons ID	(not set)
Wos ID	WOS:000382594800006
Doi	10.1016/j.catcom.2016.07.001
Title	The highly active saddle-like Ag3PO4 photocatalyst under visible light irradiation
First Author	
Last Author	
Authors	Sulaeman, U; Febiyanto, F; Yin, S; Sato, T;
Publish Date	OCT 5 2016
Journal Name	CATALYSIS COMMUNICATIONS
Citation	18
Abstract	Saddle-like Ag3PO4 particles of tetrahedron structure were successfully synthesized using a co-precipitation method by mixing H3PO4 ethanol solution and AgNO3 ethanol aqueous solution, where the percentage of ethanol in AgNO3 ethanol aqueous solution was varied at 0, 50, 80, 90 and 100% (v/v). The photocatalytic performance of the synthesized samples was evaluated by photodegradation of Rhodamine B (RhB) under blue light irradiation (lambda = 455 nm). The results showed that the morphology of the Ag3PO4 particles greatly changed depending on the ethanol content in the reaction solution. Excellent photocatalytic activity was observed at 80% (v/v) of ethanol, where the Ag3PO4 showed saddle-like morphology derived from the tetrahedron structure.
Publish Type	Journal
Publish Year	2016
Page Begin	22
Page End	25
Issn	1566-7367
Eissn	1873-3905
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000382594800006
Author	UYI SULAEMAN, S.Si, M.Si, PhD