

عنوان مقاله:

Keggin heteropolyacid supported on C_3N_4 as catalyst for selective oxidation of sulfides

محل انتشار:

دومین همایش بین المللی علوم و فناوری نانو دانشگاه تهران (سال: 1400)

تعداد صفحات اصل مقاله: 6

نویسنده:

Razieh Nejat - Chemistry Department, Kosar University of Bojnord, Bojnord, Iran

خلاصه مقاله:

$H_3PW_{12}O_{40}$ (PW_{12}), the Keggin heteropolyacid (HPA) has been supported on carbon nitride (C_3N_4). The supported PW_{12} was used in the photocatalytic oxidation of sulfides. $PW_{12}/g-C_3N_4$ depicts more efficient and higher photocatalytic capability in the oxidation of sulfides under visible light irradiation compared with Keggin. The acidity of the HPA cluster accounts for the catalytic role, whereas both the acidity and the redox properties of the HPA species were responsible for the increase of the reaction rate in the photo-assisted catalytic reaction.

کلمات کلیدی:

.Keggin, C_3N_4 , oxidation, sulfide

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1274734>

