

## عنوان مقاله:

Partial acetylene hydrogenation over commercial Pd-Ag/ $\alpha$ -Al<sub>2</sub>O<sub>3</sub> catalyst promoted by ionic liquid

## محل انتشار:

مجله سرامیک های پیشرفته, دوره 2, شماره 3 (سال: 1395)

تعداد صفحات اصل مقاله: 5

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## خلاصه مقاله:

butyl-3-methyl imidazolium hydroxide ionic liquid (BMIm[OH]) is loaded on commercial low surface area Pd-Ag/ $\alpha$ -Al<sub>2</sub>O<sub>3</sub> solid catalyst to enhance higher selectivity of acetylene partial hydrogenation. Different experimental techniques such as atomic absorption spectroscopy, surface area measurement and gas chromatography have been utilized to characterize chemical, structural and catalytic properties of the catalyst. Additionally, FT-IR spectra are collected to study the synthesized ionic liquid. The selectivity and activity of the fresh and aged catalysts are compared for both ionic liquid free and loaded samples.

## کلمات کلیدی:

acetylene hydrogenation, BMIm[OH], Ionic Liquid, Palladium, Catalyst, FT, IR

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1192111>

