

عنوان مقاله:

Alkenes oxidation with hydrogen peroxide by Silica porous and Ultralight with covered metal oxide using Phase-boundary Catalysis method

محل انتشار:

بیستمین کنفرانس شیمی فیزیک ایران (IPCC20) (سال: 1396)

تعداد صفحات اصل مقاله: 3

نویسندگان:

Shakiba Samady - Department of chemistry, Arak Branch, Islamic Azad University, Arak, Iran

Hadi Shafiei - Department of chemistry, Arak Branch, Islamic Azad University, Arak, Iran

Davood Soudbar - Department of chemistry, Arak Branch, Islamic Azad University, Arak, Iran

خلاصه مقاله:

The catalytic oxidation of alkenes is an important reactions in the chemical industry and the efficient route for the chemicals and pharmaceuticals synthesis. The process of oxidation is formed in reflux system using H₂O₂ and alkene in the presence of Phase Boundry Catayst (PBC). H₂O₂ and solid catalyst in this process are positive steps towards green chemistry. Herein is reported a highly efficient green process for the oxidation of 1-hexene using H₂O₂ oxidant and modified silver on the SiO₂ support porous catalysts at 65°C. The method enjoys > 90% conversion. The catalysts are easily recovered by filtration and are reusable several times and H₂O₂ is cheap, environmentally clean .and easy to handle, so these processes have great value nowadays

کلمات کلیدی:

Oxidation; Alkenes; hydrogen peroxide; Silica porous; Phase-boundary Catalysis

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/741763>

