

عنوان مقاله:

Graphene oxide supported Schiff–base/palladium complex: An efficient and recoverable catalyst for Suzuki-Miyaura coupling reaction

محل انتشار:

دومین کنفرانس کاتالیست انجمن شیمی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Ali Zamegaryan - *Department of Chemistry, Yasouj University, Yasouj, ۷۵۹۱۸-۷۴۸۳۱, Iran*

Zahra Dehbanipour - *Department of Chemistry, Behbahan Khatam Alanbia University of Technology, Behbahan, Iran*

Dawood Elhamifar - *Department of Chemistry, Yasouj University, Yasouj, ۷۵۹۱۸-۷۴۸۳۱, Iran*

خلاصه مقاله:

In the current research, preparation, characterization and catalytic application of a novel Schiff-base/Pd complex immobilized onto graphene oxide (GO–SB/Pd) are investigated. The GO–SB/Pd was characterized using Fourier transform infrared spectroscopy, thermal gravimetric analysis, diffuse reflectance UV–visible, Raman spectroscopy, scanning electron microscopy (SEM) and energy-dispersive X-ray (EDX) analysis. It was found that the GO–SB/Pd can act as an efficient catalyst in the Suzuki–Miyaura cross–coupling of phenylboronic acid with aryl halides. Moreover, the catalyst could be readily recycled and reused for several times without discernible loss in activity.

کلمات کلیدی:

Graphene oxide, Palladium catalyst, Suzuki coupling reaction, Aryl halides

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1009682>

