Institute of Chemical Engineering

Effective palladium-functionalized catalysts for Suzuki coupling reaction

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Abstract: Effective heterogeneous catalysts for the Suzuki coupling reaction have been prepared. Catalysts based on silica monoliths with hierarchical pore structure and SBA-15 modified with palladium organic complexes. Transmission electron microscopy (TEM), nitrogen physical adsorption, thermogravimetry (TG) and Fourier transform infrared (FTIR) studies have been used to characterize the materials. Catalysts exhibited high activity for Suzuki coupling reaction of iodobenzene with phenylboronic acid. The flow microreactor showed stability of catalytic properties with an average conversion of 96%.

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