Accepted Manuscript

Research paper

Light Driven Decarboxylative Cross Coupling of Acrylic Acid and Iodobenzene Using [Mo₁₃₂] type Keplerate as a Catalyst

Santu Das, Archismita Misra, Soumyajit Roy

 PII:
 S0020-1693(16)30347-4

 DOI:
 http://dx.doi.org/10.1016/j.ica.2016.06.037

 Reference:
 ICA 17128

To appear in: Inorganica Chimica Acta

Received Date:9 May 2016Revised Date:26 June 2016Accepted Date:27 June 2016



Please cite this article as: S. Das, A. Misra, S. Roy, Light Driven Decarboxylative Cross Coupling of Acrylic Acid and Iodobenzene Using [Mo₁₃₂] type Keplerate as a Catalyst, *Inorganica Chimica Acta* (2016), doi: http://dx.doi.org/10.1016/j.ica.2016.06.037

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Light Driven Decarboxylative Cross Coupling of Acrylic Acid and Iodobenzene Using [Mo₁₃₂] type Keplerate as a Catalyst

Santu Das, Archismita Misra, Soumyajit Roy*

Eco-Friendly Applied Materials Laboratory (EFAML), Materials Science Centre, Department of Chemical Sciences, Indian Institute of Science Education & Research (IISER) Kolkata, Mohanpur Campus, 741246 WB, India. *E-mail: <u>s.roy@iiserkol.ac.in</u>

Highlights

- Photo-chemical de-carboxylative cross coupling of acrylic acid and iodobenzene.
- Mo₁₃₂ acts as photocatalyst.
- Mo₁₃₂ is photo stable catalyst under reaction conditions.

Keyword

Polyoxometalate. Photochemistry. Decarboxylation. Mo₁₃₂. Keplerates. Cross coupling.

Abstract

Photochemical decarboxylative cross coupling reaction is one of the most significant research areas in industrial chemistry. Many research groups working on the topic use a photoredox catalyst merged with another coordination catalyst. The major problem in this case is the cost of such a cooperative catalyst system. Thus, to reduce the cost of the catalyst, designing a selfDownload English Version:

https://daneshyari.com/en/article/5151610

Download Persian Version:

https://daneshyari.com/article/5151610

Daneshyari.com