



SDI Review Form 1.6

PART 1:

Journal Name:	<u>American Chemical Science Journal</u>
Manuscript Number:	2013_ACSj_4957
Title of the Manuscript:	Fe_{0.2}Al_{1.8}Zn₁₀O₄ Composite: An Efficient Catalyst for the Synthesis of 1, 4-Dihydropyridine Derivatives
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:

[\(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline\)](http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The results and discussion section is not complete and you must present other data in this synthesis, and you did not accompany other catalysts with $\text{Fe}_{0.2}\text{Al}_{1.8}\text{Zn}_1\text{O}_4$ Composite. Also, you have to consider other catalysts, its quality, yields and useful data in this synthesis. And to compare other catalysts with $\text{Fe}_{0.2}\text{Al}_{1.8}\text{Zn}_1\text{O}_4$ Composite and you did not present any physical chemistry data of $\text{Fe}_{0.2}\text{Al}_{1.8}\text{Zn}_1\text{O}_4$ Composite, you have to present in your manuscript some data of this catalyst. There are not data of apparatus in experimental section, too. We did not receive any data of this catalyst about its reusability. The results and discussion section is very weak and this section must be complete with catalyst data and to compare other catalysts with $\text{Fe}_{0.2}\text{Al}_{1.8}\text{Zn}_1\text{O}_4$ Composite and must	The result and discussion part of the present manuscript is expanded by adding the catalyst recycle study (Table 2) as well as comparative study of the activity of our catalyst for the synthesis of 1,4-dihydropyridine derivatives with other literature protocols is compared in (Table 3). Since the catalyst was prepared by reported methods (ref. 21-23); we think the reference citation will be sufficient and no need of catalyst characterization. The catalyst reusability study is summarized in Table 2 in the result and discussion part of the manuscript.



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	present spectral data for all compounds, ¹H NMR, MAS, IR, ¹³C NMR, Elemental Analytical. Therefore, I reject this manuscript and with this situation, I do not recommend it for publication in American Chemical Science Journal.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	The paper is not novel, because the Synthesis of 1, 4-Dihydropyridine Derivatives is normal and there are some methods for its synthesis and other similar papers about this synthesis, too. Therefore, I reject this manuscript and with this situation, I do not recommend it for publication in American Chemical Science Journal. This manuscript needs a series of serious revisions and changes in the results and discussion. After serious revision, and complete changes can be considered for new review, again.	