



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2014_IRJPAC_10924
Title of the Manuscript:	Synthesis, characterization and electrochemical studies on $\text{Li}_4\text{Fe}(\text{CN})_6$ as cathode material for Li-ion batteries
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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



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PART 1: 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)
<u>Compulsory</u> REVISION comments	1. Find out the difference between lithium ion battery and lithium battery. Then carefully see the title. 2. The manuscript is not well written. Please check the manuscript for English correction with fluent professor. 3. In the expt. part how can you confirm the replacement of all K by Li in $K_4Fe(CN)_6$ 4. Why TGA shows slight increase in weight in beginning? You are mentioning above 120 deg, there is a weight occurred and is not stable. But in the next line sintering the materials at 180 deg to get dehydrated phase. Comment on this. 5. What is the purpose of using two different carbon sources to prepare electrode amterail? 6. Like UV try to take the slow scan FTIR for 3 samples and explain the peaks. 7. Run the XRD for the above three samples and compare the results. Dry the samples in vacuum oven under heating with your convenience. I hope you will get XRD for $K_4Fe(CN)_6$. Find out the peaks due to the reactant. 8. under section 3.5 you mentioned 2 pek as, but given values for one peak. Comment.	



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	9. Why there is decrease in the oxidation and reduction peaks? 10. In my knowledge giving ref. in conclusion part is good. I have not found any articles on this. Clarify this.	
<u>Minor</u> REVISION comments	Accept with minor comments	
<u>Optional/General</u> comments	As they mentioned it is a new cathode material only. But it can not compete with the existing oe. Because specific dischare capacity is less compare to the existing.	

Reviewer Details:

Name:	Anonymous
Department, University & Country	Jain University, India