



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

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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.

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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)
Compulsory REVISION comments	(1) Fig. 2: The curve should be re-marked if the Fig. 2 will be printed in black and white. (2) The authors declare that the $\text{Li}_4\text{Fe}(\text{CN})_6$ has been prepared in the paper. However, XRD of the sample is not identified for the formation of $\text{Li}_4\text{Fe}(\text{CN})_6$. Therefore, the declaration on the formation of $\text{Li}_4\text{Fe}(\text{CN})_6$ is not supported. The authors need further identification. Otherwise, it is difficult to declare the formation of $\text{Li}_4\text{Fe}(\text{CN})_6$. (3) What is the role of the morphologies of the sample before charge and after discharge? The SEM images are suggested to be provided. In summary, the paper is well written and the above issues need be clarified.	1. In Fig. 2, the three curves have been re-marked using arrow. 2. Due to the unavailability of literature XRD data of $\text{Li}_4\text{Fe}(\text{CN})_6$, we cannot confirmed the formation of the material from XRD, but from FTIR spectra and from the series of EDX data we confirmed the formation of $\text{Li}_4\text{Fe}(\text{CN})_6$ (Fig. 6 & Table 1). 3. The shape, size and porosity among the particles are important key factor to be a good cathode material. Small size having larger surface area and micro porosity among the particles enhance electrochemical performances. These things can be known from SEM morphologies. The SEM images of the sample before and after charge-discharge have been provided (Fig. 5) and no remarkable change of shapes and sizes are found.
Minor REVISION comments		
Optional/General comments		