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| Book Name: | [Chemical and Materials Sciences: Developments and Innovations](https://www.bookpi.org/bookstore/product/chemical-and-materials-sciences-developments-and-innovations-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_** **3636** |
| Title of the Manuscript: | **Pre-Treatment and Characterization of Cathode Active Material from Spent Lithium-IoN Batteries** |
| Type of the Article | **Book chapter** |

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| PART 1: Review Comments | | |
| Compulsory REVISION comments | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | **The working subject is more than important. Nowadays, it become necessary to develop new methods to minimize the negative effects of spent LIBs on the environment and public health. For that, I think this manuscript is worth publishing despite some shortcomings** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Please rewrite the abstract with focusing on your research originality** |  |
| **Are subsections and structure of the manuscript appropriate?** | **All subsections are well detailed and understandable** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **This manuscript is based on several research studies. Researchers typically use the same experimental methods and materials to achieve their observed results. In this context, I find this work to be scientifically well-accepted.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **I suggest adding at least one recent result which published between 2022 and 2024, eg:**  **The latest research on the pre-treatment and recovery methods of spent lithium-ion battery cathode material (2024)** |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | **The language of communication is acceptable** |  |
| Optional/General comments | 1. **Discharging of LIBs in Sodium chloride solution part:**   **You mentioned that you used sixty-seven batteries, while, only thirty-seven batteries appeared in the result part.**   1. **I suggest to mention no more than three refrences for each idea.** |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **Mouna Sellami** |
| Department, University & Country | **Faculty of Sciences of Sfax, Tunisia** |