|  |
| --- |
|  |
| Book Name: | [Chemical and Materials Sciences: Research Findings](https://www.bookpi.org/bookstore/product/chemical-and-materials-sciences-research-findings-vol-1/)  |
| Manuscript Number: | **Ms\_BPR\_5160** |
| Title of the Manuscript:  | **Adsorption of Cobalt and Strontium Ions on Plant-Derived Activated Carbons: The Suggested Mechanisms** |
| Type of the Article | **BOOK CHAPTER** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Journal of Carbon Research, 2023, 9(3), 71.**

[**https://doi.org/10.3390/c9030071**](https://doi.org/10.3390/c9030071)

|  |
| --- |
| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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. A minimum of 3-4 sentences may be required for this part.** | This study provides valuable insights into the use of activated carbons derived from walnut shells and apple wood for the removal of cobalt(II) and strontium(II) ions from aqueous solutions. It examines the impact of oxidation treatments on adsorption capacities, contributing to the development of effective and environmentally friendly adsorbents. The application of various kinetic and isotherm models enhances the understanding of adsorption mechanisms. These findings have significant implications for improving water treatment technologies and addressing environmental contamination. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title "Adsorption of Cobalt and Strontium Ions on Plant-Derived Activated Carbons: The Suggested Mechanisms" is quite suitable as it is clear, concise, and descriptive of the main focus of the study. |  |
| 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. | The abstract of the article is fairly comprehensive as it provides a good overview of the study, including the materials used, experimental methods, results, and some insight into the adsorption mechanisms. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | This manuscript appears scientifically correct based on the provided information. The choice of materials, characterization methods, experimental procedures, and use of kinetic and isotherm models are appropriate and well-established in the field of environmental science and materials chemistry. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | Some references in the article are over 10 years old, which may limit the relevance of the sources cited. It is recommended to use more recent references, preferably from 2020 to the present, to reflect the latest developments in the field. In this regard, I suggest including the following two references that could be helpful in enriching the article: <https://doi.org/10.24200/amecj.v7.i02.310> - <https://doi.org/10.1007/s11356-023-26550-z> |  |
| Is the language/English quality of the article suitable for scholarly communications? | With some minor revisions, the language quality can be enhanced to ensure it is appropriate for scholarly communication. The content is technically sound, but improving sentence structure, consistency, and clarity will make the manuscript more accessible and professional. |  |
| Optional/General comments | The results of this research are environmentally significant and would be even more impactful if the authors specified the species, variety, and collection period of the materials. These factors can influence the properties and efficiency of the activated carbons. Additionally, including a paragraph on the regeneration of activated carbons would be beneficial, as it ensures the sustainability and reuse of the material in water treatment. |  |

|  |
| --- |
| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Ennabely Mohamed, Hassan II University of Casablanca, Morocco**