|  |  |
| --- | --- |
|  | |
| Book Name: | [Chemistry and Biochemistry: Research Progress](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4169** |
| Title of the Manuscript: | **A REVIEW ON SYNTHESIS OF CONDUCTING WITH POLYANILINE RICE HUSK ASH SILICA NANOCOMPOSITES AND APPLICATION** |
| Type of the Article | **Book chapter** |

|  |  |  |
| --- | --- | --- |
| PART 1: 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. A minimum of 3-4 sentences may be required for this part.** | **It investigates a novel method of creating conducting nanocomposites utilizing polyaniline and silica produced from rice husk ash, a plentiful and sustainable waste resource, this manuscript is of great significance to the scientific community. The study advances applications in supercapacitors, sensors, coatings, and drug delivery systems by utilizing the special qualities of these nanocomposites, such as improved electrical conductivity, thermal stability, and mechanical strength. By using agricultural waste, the study also tackles environmental issues and promotes economical and environmentally sustainable material synthesis. Future studies on sustainable nanotechnology and its incorporation into several industrial and health applications are made possible by the findings.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **It could be more concise and precise for clarity. Here's an alternative title suggestion:**  **"Synthesis and Applications of Polyaniline-Rice Husk Ash Silica Nanocomposites: A Review.** |  |
| 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 research's materials (polyaniline and rice husk ash silica), synthesis method (chemical oxidative polymerization), and various applications of the nanocomposites are all covered in the abstract, which could use some specific details and improved structure for clarity and comprehensiveness.**  **Techniques Clarity: To demonstrate how the nanocomposites were examined, briefly discuss the characterization methods (such as UV-Vis, FT-IR, and XRD). Important Findings: Provide concrete results to demonstrate the benefits of the nanocomposite, such as increases in mechanical strength, electrical conductivity, or thermal stability. Sustainability Aspect: Stress how using rice husk ash is important for the environment and how it fits with the ideas of green chemistry.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Although more thorough experimental evidence and mechanistic considerations might strengthen the manuscript's findings, it is nonetheless scientifically sound. Its scientific rigor would be improved by closely examining the references and matching the findings to the applications.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The existing references offer a solid basis, including these recommended research will guarantee that the work takes into account the most recent developments and increase its attractiveness to the scientific community. Furthermore, incorporating current research on sustainability and real-world uses for nanocomposites would highlight the study's importance in tackling contemporary issues.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The manuscript's language quality is generally appropriate for academic communication, there are several places where it may be improved to make it more professional, readable, and clear.**  **Clarity may be diminished by some sentences' length or grammatical mistakes. For instance: The original meaning was "Rice Husk Ash (RHA) is the by-product of rice mill industry considered as waste material." Recommended: "Rice Husk Ash (RHA), a by-product of the rice milling industry, is often considered waste material."** |  |
| Optional/General comments | **The paper is a remarkable, well-structured effort that shows a thorough comprehension of the topic. The reader is efficiently guided through the research process by the clear and logical organization, which makes each section flow naturally from the next. With a comprehensive literature analysis and a strong methodology that backs up the conclusions, the depth of the research is clear. The author approaches the subject in a novel way, providing new insights that greatly advance the discipline. Without sacrificing technical depth, the writing is clear and easy to read, making complicated concepts simple to comprehend. Furthermore, the tables and figures are skillfully designed and contribute to the data's increased readability. This work contributes significantly by tackling a current and pertinent.** |  |

|  |  |  |
| --- | --- | --- |
| **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)*** |  |

|  |  |
| --- | --- |
| **Reviewer Details:** | |
| **Name:** | **Maria Ajmal** |
| **Department, University & Country** | **Superior University Lahore, Pakistan** |