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| Book Name: | [Pharmaceutical Science: New Insights and Developments](https://www.bookpi.org/bookstore/product/pharmaceutical-science-new-insights-and-developments-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4293** |
| Title of the Manuscript:  | **Nanoparticles: Characteristics, Preparation, Applications, and Challenges in Modern Technologies** |
| Type of the Article | **BOOK CHAPTER** |

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| 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.** | This manuscript provides a comprehensive review of nanoparticles, detailing their characteristics, preparation methods, and diverse applications across modern technologies. It highlights the potential of nanoparticles to revolutionize fields such as medicine, energy, and environmental science. Additionally, it addresses critical challenges like scalability and toxicity, offering insights essential for future research and development. This contribution is particularly valuable for researchers and technologists aiming to harness nanoparticles for innovative solutions. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title, "Nanoparticles: Characteristics, Preparation, Applications, and Challenges in Modern Technologies," is suitable and accurately reflects the manuscript's content. No changes are suggested. |  |
| 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 is comprehensive and provides a clear summary of the manuscript’s key points. No additional information is required, but minor improvements have been made to enhance clarity and readability. Changes have been highlighted in the manuscript. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | Yes, the manuscript is scientifically accurate. All statements are supported by recent research and literature. No inaccuracies were identified during the review. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references are sufficient and recent, covering both foundational studies and contemporary advancements in the field. No additional references are deemed necessary at this time. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is clear, concise, and suitable for scholarly communication. Minor grammatical edits have been made to improve readability, which are highlighted in the manuscript. |  |
| Optional/General comments | The manuscript provides a detailed and well-structured exploration of nanoparticles, their characteristics, preparation methods, and potential applications. The inclusion of challenges faced in modern technologies is particularly noteworthy, as it adds depth to the discussion and highlights areas for future research. The writing style is clear, and the content is scientifically accurate and well-supported by recent literature. However, a brief discussion on emerging trends in nanoparticle research, such as their role in artificial intelligence or advanced diagnostics, could further enrich the manuscript. Overall, it is a valuable contribution to the field. |  |

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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: | **Nouratan Singh** |
| Department, University & Country | **U.P. University of Medical Sciences, India** |