

Review Form 3

Journal Name:	Asian Journal of Research and Reviews in Physics
Manuscript Number:	Ms_AJR2P_130621
Title of the Manuscript:	Optical and Structural Properties of Rutile Nanoparticles Prepared Via Ball Milling
Type of the Article	Manuscript

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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 is significant for the scientific community as it advances the understanding of the optical and structural properties of Rutile nanoparticles prepared via ball milling. By detailing the synthesis process and characterizing the nanoparticles' unique optical properties, such as high transmittance in the visible and near-infrared regions and a band energy gap of 3.88 eV, the study highlights their potential applications in optoelectronic and photovoltaic devices. Furthermore, the systematic analysis of parameters such as refractive index, extinction coefficient, and optical conductivity enhances the foundational knowledge required for designing efficient solar cells and related technologies. This work underscores the importance of nanotechnology in developing sustainable and high-performance materials.	-----
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, " Optical and Structural Properties of Rutile Nanoparticles Prepared Via Ball Milling, " is clear and descriptive, accurately reflecting the content of the manuscript.	-----
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 provides a good overview of the study, including the synthesis method, characterization techniques, and key findings.	-----
Is the manuscript scientifically, correct? Please write here.	Based on the review of the manuscript, it appears to be scientifically accurate in its methodology, data presentation, and analysis. However, there are areas where clarity, completeness, or minor corrections could enhance its quality and ensure scientific rigor.	-----
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references in the manuscript are generally relevant and cover key aspects of the study, including nanoparticle synthesis, optical and structural characterization, and potential applications. However, a significant proportion of the references are relatively older, with some dating back to the 1990s or early 2000s. While these are foundational studies, incorporating more recent references would strengthen the manuscript by showing awareness of current advancements in the field.	-----
Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article are generally suitable for scholarly communication, but there are areas where clarity, grammar, and flow can be improved.	-----
Optional/General comments	-----	-----

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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