Review Form2

Book Name:	**Current Research Progress in Physical Science**
Manuscript Number:	**Ms_BPR_1974**
Title of the Manuscript:	**Determination of the Electronic Energy Levels of a Quantum well Heterostruture Zn1-xMgxO/ZnO/ Zn1-xMgxO**
Type of the Article	**Book Chapter**

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 minimumof 3-4 sentences may be required for this part.	**This manuscript is important for the scientific community as it provides a detailed analysis of the electronic energy levels in ZnO-based quantum well heterostructures, a topic of significant interest due to the material's unique optical and electronic properties. By demonstrating the ability to control optoelectronic properties through magnesium concentration adjustments, the study opens up new possibilities for the design and optimization of advanced optoelectronic devices like laser diodes and infrared photodetectors.**	
Is the title of the article suitable? (If not please suggest an alternative title)	**Yes, it is suitable**	
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.	**Yes, its acceptable**	
Are subsections and structure of the manuscript appropriate?	**Yes, the subsections and structure of the manuscript appear to be appropriate for a scientific study of this nature. The manuscript is organized in a way that facilitates a clear understanding of the research objectives, methodology, results, and implications.**	
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 minimumof 3-4 sentences may be required for this part.	**This manuscript is scientifically robust and technically sound due to its rigorous approach to analyzing the electronic energy levels in ZnO-based quantum well heterostructures. The use of well-established theoretical models, such as the Schrödinger equation, and the accurate consideration of material properties like the band gap and effective mass, ensure that the calculations and results are reliable. The manuscript's detailed methodology, including the graphical resolution of transcendental equations to determine energy levels and wave functions, demonstrates a comprehensive understanding of quantum mechanics principles. Additionally, the practical implications of the findings, supported by clear and systematic analysis, reinforce the manuscript's scientific correctness and relevance to the field of optoelectronics.**	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	**Yes, it is sufficient. However, there are additional works on quantum wells by Armenian authors. It would be great if the author could include references to works by authors from Armenian universities.**	

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	**Yes, it is.**	
Optional/Generalcomments	**Overall, the article is a valuable contribution to the field of semiconductor physics and quantum wells, offering both theoretical insights and practical applications for future research and technological advancements.**	

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:

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