

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

<u>Compulsory</u> 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.	The manuscript is important for the scientific community because it presents a study on the band energy properties of a quantum square well made up of a zinc oxide (ZnO) thin layer (well) sandwiched between two Zn1-xMgxO layers acting as potential barriers. It is found that the calculated wavelengths are in the infrared domain, depending on the magnesium concentration. They allow the determination of many quantum effects at room temperature that can be exploited in real semiconductor devices like laser diodes.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes.	
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.	
Are subsections and structure of the manuscript appropriate?	Yes.	
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.	Overall, the manuscript is scientifically robust and technically sound. There are some small mistakes. First, the parameter k1 in equation (3) is not defined, so that the energies cannot be specified without it. Second, it is missing the number of the equation for the energy eigenvalues, which should be 4. Third, the statement of equation (5) is confusing. It would be better to write the equation alone and after it to add the complementary text “ Ent is the integer part of Eq. (5)”.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The References are all right.	
<u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes. The English quality of the articleis suitable for a scholarly communication.	
<u>Optional/General</u> comments	The manuscript may be considered for publication in this journal after the minor corrections above are done.	

Review Form2

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>	

Reviewer Details:

Name:	Daniel Lima Nascimento
Department, University & Country	University of Brasilia, Brazil