

### Review Form 3

Journal Name:	<b>Journal of Materials Science Research and Reviews</b>
Manuscript Number:	<b>Ms_JMSRR_123352</b>
Title of the Manuscript:	<b>Improving the Electronic and Optical Properties of Graphene-Based Biosensors by Structural Modifications through modelling.</b>
Type of the Article	

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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### PART 1: Review Comments

<b>Compulsory</b> REVISION 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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	I like this manuscript since it introduces new ways of improving the optical and electrical properties of Graphene-Based Biosensors using modeling and simulation approaches	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title of the article 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.	I think it should be written using passive sentences. I also believe that clear conclusion is not indicated.	
Are subsections and structure of the manuscript appropriate?	Yes, I believe that the subsections and structure of the manuscript are appropriate.	
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 minimum of 3-4 sentences may be required for this part.	This manuscript is scientifically correct since mainly due its methodology, its use of the computational methods since these methods help to predict the optical and electrical properties of the Graphene-Based Biosensors.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	I believe that the references are sufficient and recent	
<b>Minor</b> REVISION comments  Is the language/English quality of the article suitable for scholarly communications?	Yes, I believe that the language/English quality of the article suitable for scholarly	
<b>Optional/General</b> comments	All the results should be compared with some previously reported works. Discussions about the figures need to be supported by references. In addition, the quality of all the figures needs series improvements.  No, there are no ethical issues in this manuscript No, there are no competing interest issues in this manuscript No, plagiarism is not suspected	

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#### **PART 2:**

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

#### **Reviewer Details:**

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