



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Materials Science Research and Reviews</a>
Manuscript Number:	<b>Ms_JMSRR_50925</b>
Title of the Manuscript:	<b>Mixed Compounds of Cd<sub>(1-x)</sub> Mg<sub>x</sub> O (0 ≤ x ≤ 1) and their Optoelectronic Properties</b>
Type of the Article	<b>Original Research Article</b>

**General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

	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)
<b>Compulsory</b> REVISION comments	<p>Reviewer's comment:</p> <p>Dear Editor:</p> <p>The manuscript focused on the "Mixed Compounds of Cd(1-x) Mg<sub>2</sub>O(0 ≤ x ≤ 1) and their Optoelectronic Properties". It is very interesting and novel study in photoelectric application. Based on above reason, it is recommended to publish it. However, some points need to revise, which is listed below</p> <p>[1] The new relate references are needed to add in the revised manuscript.</p> <p>[2] The authors investigate many parameters in this study. What is optimal condition in this work.</p> <p>[3] The resolution of figures 2, 3, 4 is needed to improve. Please explain and add it in the revised manuscript.</p> <p>[4] What are the important applications in this study? Please add in the revised manuscript.</p> <p>[5] Theoretical calculations how to set the initial conditions or parameters to get close to the actual situation.</p> <p>[6] Can theoretical calculations and practical applications be compared to each other?</p> <p>[7] What are the important applications in this study? Please add in the revised manuscript.</p> <p>[8] The authors investigate many parameters in this study. What is optimal condition in this work? Please explain and add it in the revised manuscript.</p> <p>[9] How the theoretical setting conditions are suitable for the actual situation?</p>	<p>[1] References updated</p> <p>[2] Theoretical results only give predictions because they are based on many approximations. Thus, theoretical results are not an end in itself, but to provide insight/guide for experimenters. Optimal conditions are better established during experimental procedure.</p> <p>[3] Figures 2, 3, 4 revised with better resolution.</p> <p>[4] For optoelectronic applications. The title and body of article greatly reflects this.</p> <p>[5] Setting initial conditions or parameter for ab initio DFT calculations is extensively discussed in the various references cited. Any repetition will only make the article boring and bulky.</p> <p>[6] YES – only where experimental data is available. There are no experimental data for all the compounds discussed; hence the theoretical results could not be compared.</p> <p>[7] Please see [4]</p> <p>[8] Please see [2]</p> <p>[9] This query can only be answered only when these compounds have been fabricated. For now, they remain predictions.</p>
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

**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)	