



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	<b>Ms_PSIJ_29954</b>
Title of the Manuscript:	<b>Free energy estimation of a binary alloy around the equilibrium based on the order parameter</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><u>Compulsory</u></b> REVISION comments	<ol style="list-style-type: none"> <li>1) How does energy affect the direction and extend of a reaction?</li> <li>2) Can we apply Taylor expansion for ternary alloys also?</li> <li>3) What is the basis to measure the coefficients <math>F_0</math> and <math>F_1</math> ?</li> </ol>	<p>Thank you for your comments.</p> <ol style="list-style-type: none"> <li>1) Sorry but we don't understand the first question.</li> <li>2) For about the second question, yes we can but this time we will have an equation of the free energy with two variables and it will be a quadratic form and we will calculate the Hessien matrix. It's a big deal.</li> <li>3) We didn't measure <math>F_0</math> and <math>F_1</math> that just an abstract study.</li> </ol>
<b><u>Minor</u></b> REVISION comments	<ol style="list-style-type: none"> <li>1) Change the title of the CONCLUSION as "Conclusion" to maintain the similarity of other titles.</li> </ol>	That's ok.
<b><u>Optional/General</u></b> comments	<ol style="list-style-type: none"> <li>1) There are only 8 references mentioned. The authors should include more references.</li> </ol>	That's ok.