



**SDI Review Form 1.6**

Journal Name:	<a href="#">Asian Journal of Research and Review in Physics</a>
Manuscript Number:	<b>Ms_AJR2P_50786</b>
Title of the Manuscript:	Study of energy of formation for $\text{Fe}_x\text{Ni}_{1-x}$ liquid binary alloys
Type of the Article	<b>Original research paper</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>)

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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>I can recommend this paper for the publication in the journal "AJRRP"</p> <p>In this paper was theoretical study the thermodynamic state of compound <math>\text{Fe}_x\text{Ni}_{1-x}</math>. For studies of this systems used the microscopic theory bases on first order perturbation theory. The Helmholtz free energy was calculated for liquid binary alloys.</p> <p>Theoretical calculations agree with experiment</p>	
<b>Minor</b> REVISION comments	<p>I am recommending to include in the references the next publication:</p> <p>1 Kruchinin, S. P., Functional integral of antiferromagnetic spin fluctuations in high <math>T_c</math> superconductors, Mod. Phys. Lett. B 9, p.209-215, (1995).</p> <p>2. Soldatov A.V., Bogolyubov N.N. Jr., Kruchinin S.P. Theory of quantum dots in external magnetic field. Quantum Matter, 4,352-357 (2015).</p> <p>3 S. Kruchinin, H. Nagao, S. Aono, Modern aspects of superconductivity.: theory of superconductivity. World Scientific, Singapore, 220 (2010).</p>	We did not take in consideration of superconductivity in this paper. We hope in our future research we will consider those references recommended by the reviewer.
<b>Optional/General</b> comments		



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**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?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	