

Review Form 3

Journal Name:	Asian Journal of Research and Reviews in Physics
Manuscript Number:	Ms_AJR2P_121196
Title of the Manuscript:	First Principles Study of Structural, Electronic, Mechanical and Density of State Properties of the Half - Heusler Alloy NaCrGe
Type of the Article	

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PART 1: Review Comments

Compulsory 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 minimum of 3-4 sentences may be required for this part.	This paper presents the structural, electronic, mechanical and density of states properties of NaCrGe materials. In this study, NaCrGe materials are considered as hybrids materials with characteristics of both metals and semiconductors. The analysis of the characterization reveals that NaCrGe is a half metallic – heusler alloy.	
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.	Remove the first sentence of the abstract. Then ,from the second sentence you may start the sentence "In this study, the investigated structural....."	
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 minimum of 3-4 sentences may be required for this part.	In the manuscript, ensure that the scientific terms are well explained clearly. Additionally, if you have present scientifically sound information, include proper references to enhance understanding for the readers.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	There are no references provided for thr sections on structural properties (4.1) and electronic band structure (4.2). Adding a few references in these sections would enhance the quality and credibility of your analysis.	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	No, there is some minor grammatical correction.	
Optional/General comments	<ol style="list-style-type: none"> 1) Please explain the rationable behind choosing NaCrGe materials in the indroduction. Section pf the manuscript. 2) Discuus the significance of NaCrGe materials and their advantages over other materials within the manuscript. 3) In the Literature Review, reference and build upon previous work to establish the context for your reseach, providing appropriate citations. 4) In the Methodology section, authors should write the model of the instruments used for the characterizing your research work. 5) Authors have mention that the crystal structure of NaCrGe compound has beta (β)-phase. How do you know it is beta (β)-phase? Justify in the manuscript. 6) In table 1, 2, you list various parameters but do not specify the formulas used for their calculation. Please include these details. 7) In the Conclusion, highlight the benefits of your work for young researchers. 	

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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>	

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