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| Book Name: | [Science and Technology: Developments and Applications](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4078** |
| Title of the Manuscript: | **Comprehensive Analysis of Electronic Band Structure, Structural Phase Stability, and Optical Properties in AgMX2 Compounds (M = Al, Ga, In; X = S, Se, Te)** |
| Type of the Article | **Book chapter** |

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| PART 1: 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. A minimum of 3-4 sentences may be required for this part.** | **Yes** |  |
| **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. | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **No** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | The manuscript reported the theoretical study on theElectronic Band Structure, Structural Phase Stability, and Optical Properties‎ of AgMX2 Compounds (M = Al, Ga, In; X = S, Se, Te)‎. The results discussed in the manuscript seems to be ‎solid in most parts. However, I would like to hear the response of the author in a number of ‎issues/points, listed below:‎  ‎1). Can authors provide the figure for AgMX2 crystal structure?‎ Moreover, I suggest the authors can give and Figs the Band structure and DOS in manuscript.‎  2). Analyse the electron transport properties  ‎3). Please insert “(a)”, (b)… inside each figure and caption.‎  ‎4) 31 of 38 refs is out of date (more than 20 years). Update them! ‎  ‎The authors should provide in 1. Introduction examples of effective catalysts obtained ‎and ‎studied ‎recently:‎‎ ‎‎https://doi.org/10.1016/j.physb.2012.04.011  https://doi.org/10.1016/j.mssp.2013.04.009 |  |

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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?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **S. Berri** |
| Department, University & Country | **University of M'sila, Algeria** |