

Peer Review

Review of: "A Brief Review of the Optoelectronic Properties of Delafossite Materials for Solar Cell Applications"

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The manuscript is well written; however, a few queries must be addressed before final publication.

1. Can the authors elaborate on how this review differs from existing reviews on delafossite materials for solar cell applications?
2. How were the specific delafossite materials chosen for inclusion in this review? Were any key materials omitted?
3. Can the authors clarify the criteria used to compare the performance of delafossite materials in solar cell applications?
4. Have the authors considered discussing the scalability and cost-effectiveness of the synthesis methods reviewed?
5. Provide more detailed insights into the challenges associated with doping delafossite materials and their impact on efficiency.
6. Some optical and electronic properties of delafossite materials were briefly mentioned. Could these be expanded with more experimental or computational data?
7. In the review, theoretical efficiencies are mentioned. Are there experimental validations or ongoing studies to support these theoretical values?
8. Provide a more detailed comparison of delafossite-based solar cells with other third-generation solar cell technologies.

Declarations

Potential competing interests: No potential competing interests to declare.