

Review of: "Dynamic structure factors and equation of state of fluid iron under Earth's core condition"

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Potential competing interests: No potential competing interests to declare.

Revision:

The present study reveals the 'Dynamic structure factors and equation of state of fluid iron under Earth's core condition'. This study seems interesting, but after some major revision, it will be able to be published in this well-reputed journal.

- There are several spelling errors in the manuscript. Please improve the grammar and spelling of the manuscript. Please consult a proofreader to improve the manuscript.
- Many papers are published with similar findings. What is new here? The authors should include it in the novelty section.
- The Abstract seems incomplete. It should give a brief overview of the importance of the study, modelling, solution procedure, and also include major results in the abstract?
- Please rewrite the highlights of the manuscript by including the important findings in them.
- What is your method's advantage?
- The conclusion section should strictly focus on the results that have been analyzed and discussed.
- Mention the physical applications of this study in the revised manuscript.
- Clear descriptions of the work's uniqueness should also appear briefly in the Abstract and Conclusions sections.
- The introduction is not suitable to fulfill its purpose. Update the introduction section by adding the latest findings.
- Use the introduction section to present the same novelty, and the introduction part should improve with the latest relevant findings.

<https://doi.org/10.1201/9781003385288>

<https://doi.org/10.1016/j.asej.2023.102282>

<https://doi.org/10.1142/S0217979224501972>

<https://doi.org/10.1016/j.tsep.2023.101948>

<https://doi.org/10.1016/j.heliyon.2023.e18546>

<https://doi.org/10.1016/j.asej.2023.102422>