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## REVIEWER'S REPORT

Manuscript No.: IJAR-50350

Date: 20/2/2025

**Title:**

**ANTI-INFLAMMATORY AND ANTI-OXIDANT ACTIVITY OF HAFNIUM OXIDE NANOPARTICLES SYNTHESISED USING MOMORDICA CHARANTIA**

**Recommendation:**

Accept as it is .....

Accept after minor revision... ✓

.....

Accept after major revision .....

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity	Excellent			
Significance	Excellent			

Reviewer Name: Dr.Sumathi

Date: 20/2/2025

**Reviewer's Comment for Publication.**

*(To be published with the manuscript in the journal)*

*The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.*

Hafnium oxide is an inorganic compound that is a colorless, off-white or crystalline solid. It is also known as hafnium dioxide or hafnia.

### *Detailed Reviewer's Report*

- Hafnium oxide nanoparticles refers to tiny particles of hafnium oxide, a compound with the chemical formula HfO<sub>2</sub>, where the particles are measured on the nanoscale giving them unique properties compared to larger particles of the same material.**

**REVIEWER'S REPORT**

- 2. The nanoparticles are often used in applications like cancer treatment due to their ability to enhance radiation therapy effects when injected into tumors.**
- 3. Anti-inflammatory agents are substances that reduce inflammation, a body's natural response to injury of infection.**
- 4. Anti-inflammatory substances or treatments reduce swelling of inflammation. Drugs also known as anti-inflammatories, are analgesics that work by blocking substances in the body that cause inflammation.**
- 5. Antioxidants are substances that protects cells from damage caused by unstable molecules called free radicals.**
- 6. Nanoparticle synthesis is the process of creating nanoparticles, which are tiny particles that range in size from 1 to 100 nanometers.**
- 7. It can be made from larger molecules or created using a variety of methods.**
- 8. Momordica charantia is the latin name for the bitter melon plant also known as bitter gourd or balsam pear. The name Momordica comes from latin and means to bite.**
- 9. This research findings are medically very valued. Review points are given good and significant.**
- 10. Graphs are good. But need to be given tables with results without fail.**
- 11. References should be in alphabetical order.**
- 12. Summary parts must be included.**
- 13. Pictures are good and understandable.**
- 14. Flow charts of research findings can be added.**
- 15. Research findings are value to publish in your journal after minor corrections.**