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Retraction Note: Solar energy optimization in solar-HVAC using Sutterby hybrid nanofluid with Smoluchowski temperature conditions: a solar thermal application

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Retraction of: *Scientific Reports* <https://doi.org/10.1038/s41598-022-15685-7>, published online 07 July 2022

The Editors have retracted this Article.

After publication concerns were raised about the use of nonsensical language and excessive citation of work that is not directly relevant to the subject of this article. The Editors requested an explanation from the Authors; however, their response did not adequately address these concerns. The Editors therefore no longer have confidence in the reliability of the conclusions presented.

Wasim Jamshed, Mohamed R. Eid, Rabia Safdar, Amjad Ali Pasha, Siti Suzilliana Putri Mohamed Isa, Mohammad Adil and Wajaree Weera disagree with this retraction. Zulfiqar Rehman has not responded to correspondence from the Editors about this retraction.



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