

DATA ANALYTICS AND APPLIED MATHEMATICS (DAAM)

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1st Step

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2nd Step

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AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid

3rd Step

Click the Quotation Mark (“Cite) Icon

A pop-up window will appear showing different citation formats (MLA, APA, Chicago, Vancouver. etc.).

[HTML] [AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid](#)

[F Zia](#), [J Iqbal](#), [N Naheed](#), [MM Alam](#)

Case Studies in Thermal Engineering, 2025 · Elsevier

This study introduces an innovative approach of Artificial Neural Networks (ANNs) based on the Levenberg-Marquardt Backpropagation Scheme (ANNs-LMBPS) to simulate the EMHD Darcy-Forchheimer Flow of Casson Hybrid Nanofluid (EMHD-DFFCHNFs) over a stretching surface. The hybrid nanofluid comprises uranium dioxide and molybdenum disulfide nanoparticles suspended in a blood-based fluid. The aim of this investigation is to explore the influence of electro-osmosis, Joule heating and porous media interactions on

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4th Step

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MLA Zia, F., et al. "AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid." *Case Studies in Thermal Engineering* (2025): 106812.

APA Zia, F., Iqbal, J., Naheed, N., & Alam, M. M. (2025). AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid. *Case Studies in Thermal Engineering*, 106812.

Chicago Zia, F., J. Iqbal, N. Naheed, and M. M. Alam. "AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid." *Case Studies in Thermal Engineering* (2025): 106812.

Harvard Zia, F., Iqbal, J., Naheed, N. and Alam, M.M., 2025. AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid. *Case Studies in Thermal Engineering*, p.106812.

Vancouver Zia F, Iqbal J, Naheed N, Alam MM. AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid. *Case Studies in Thermal Engineering*. 2025 Aug 5:106812.

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5th Step

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REFERENCES

- [1] Choi SU, Eastman JA. Enhancing thermal conductivity of fluids with nanoparticles. Argonne National Lab.(ANL), Argonne, IL (United States); 1995 Oct 1.
- [2] Maxwell JC. A treatise on electricity and magnetism. Oxford: Clarendon Press; 1873.
- [3] Das SK, Choi SU, Yu W, Pradeep T. Nanofluids: science and technology. John Wiley & Sons; 2007 Dec 4.
- [4] Saidur R, Leong KY, Mohammed HA. A review on applications and challenges of nanofluids. *Renewable and sustainable energy reviews*. 2011 Apr 1;15(3):1646-68.
- [5] Zia F, Iqbal J, Naheed N, Alam MM. AI-powered analysis of thermally magnetized EMHD Casson hybrid nanofluid. *Case Studies in Thermal Engineering*. 2025 Aug 5:106812.