

Special Issue

Nanofluid for Heat Transfer Enhancement: Current and Future Perspective

Message from the Guest Editors

I want to extend a warm invitation to you all to submit your research papers to the Special Issue of *Machines* on "Nanofluid for Heat Transfer Enhancement: Current and Future Perspective". Despite considerable experimental and numerical research in this field, nanofluids require more fundamental studies. Major challenges in the application of nanofluids are:

- The stability and preservation of nanoparticles without sedimentation and aggregation;
- Higher pressure drop penalty and pumping power associated with nanofluid heat transfer enhancement;
- Corrosion and erosion of components by nanofluids.

A concerted global research effort is required to overcome the remaining technical challenges and provide new insights that benefit the research community. A primary focus of this Special Issue is to bring together papers that particularly present recent advances in the fields above to mitigate many of these technical challenges and indicate future trends of nanofluids. All research approaches (experimental, theoretical, and computational) are welcomed, emphasizing fundamental or applied nature aspects.

Guest Editors

Dr. Javad Mohammadpour
Australian Maritime College, University of Tasmania, Launceston, TAS
7250, Australia

Dr. Shahid Husain
Department of Mechanical Engineering, Aligarh Muslim University,
Aligarh, India

Deadline for manuscript submissions

closed (31 May 2023)



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Machines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
machines@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE–Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).