

## Special Issue

# Nanofluid Innovations: Recent Advances in Synthesis, Properties and Multifunctional Applications

### Message from the Guest Editors

This Special Issue will focus on recent progress in and innovative applications of nanofluids, emphasizing their unique properties and their potential to improve performance in a variety of engineering and industrial contexts. We invite submissions addressing the following topics, among others:

- Novel synthesis methods and comprehensive characterization of nanofluids;
- Enhanced thermal conductivity and heat transfer capabilities;
- Practical uses of nanofluids in cooling, lubrication, and heat exchange systems;
- Dielectric performance of nanofluids and their application as insulating fluids;
- Long-term stability, dispersion methods, and performance optimization;
- Environmental implications and sustainability aspects of nanofluids;
- Advanced modeling and simulation techniques for predicting nanofluid behavior;
- Case studies highlighting industrial implementations in energy, electronics, and manufacturing;
- Future challenges and opportunities for large-scale adoption of nanofluid technologies.

### Guest Editors

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### Deadline for manuscript submissions

20 January 2026



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### Message from the Editor-in-Chief

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