Special Issue

Advances in Nanofluids and Turbulators for Heat Transfer Enhancement

Message from the Guest Editors

Nanofluids (mono or hybrid) have shown better thermal characteristics and stability compared to conventional heat transfer fluids, thus making them the best candidates for many thermal applications. However, using nanofluids and turbulators may result in increased pressure drop; therefore, it is necessary to calculate the overall heat transfer coefficient and experimentally investigate whether this approach is beneficial or not. Therefore, understanding the fundamentals of heat transfer, friction factor, and pressure drop is significant for establishing nanofluids heat transfer fluids for a wide range of engineering applications. There is a significant gap in research on nanofluids to develop mathematical models that could be used to predict thermophysical properties. This Special Issue is focused on evaluating the idiosyncratic behavior of mono and hybrid nanofluids and turbulators along with their applications in various energy systems for heat transfer enhancement.

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Deadline for manuscript submissions

closed (20 January 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/88405

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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