

Special Issue

Recent Developments in Heat Transfer: Towards Climate Neutrality

Message from the Guest Editors

The pursuit of climate neutrality requires global systemic actions involving the use of solutions aimed at reducing emissions. Changes must be introduced in all sectors affecting climate change, namely power engineering and district heating, construction, transport, industry, as well as agriculture and forestry. Comprehensive actions are needed to increase energy efficiency, use of modern low-emission technologies and materials, use of renewable energy sources and waste heat recovery, closed-circuit economy, etc. These actions are closely related to the conditions and dynamics of the heat transfer process in the solutions used. Analysis of models of the heat transfer process allows for optimization of solutions and reduction in costs. The use of modern heat exchange solutions in various economic sectors leads to improved energy efficiency and increased energy security and prevents environmental degradation. Changes must also be made in thermal and energy management models and society's consumption models as an element of the energy transformation towards climate neutrality and preventing the deepening of energy poverty.

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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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