Special Issue

Thermodynamics for Net-Zero Energy Systems

Message from the Guest Editors

Knowledge of thermodynamic and thermophysical properties of relevant materials and fluids is fundamental for the development and optimal operation of energy processes. Properties of interest include (but are not limited to) phase behaviour, density, viscosity, thermal conductivity, and latent heat. Moreover, these properties are also essential in developing physical models used in the design of low-carbon energy processes. A good prediction of the system properties through thermodynamic and thermophysical properties models used in process simulation can significantly reduce energy consumption. This Special Issue will bring together cutting-edge studies from leading researchers in the areas of thermodynamic and thermophysical properties measurement and modelling relevant to processes such as CCS, CO2 utilisation, low-carbon fuels, and energy storage.

Guest Editors

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Message from the Editor-in-Chief

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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