Special Issue

New Horizons for Low-Temperature Engineering: From Refrigeration to Cryogenics

Message from the Guest Editor

The field of research and application associated with low temperatures is continuously growing and expanding. Low-temperature systems are applied almost everywhere: in air conditioning, food, beverage and pharmaceutical industries; biotechnical applications; machinery; civil and chemical engineering; liquefaction of gases; CO2 capture and storage as well as air liquefaction and separation (cryogenics); and innovative technologies on low-temperature and cryogenic energy storage as well as multigeneration systems. Such progress and development must be efficient and sustainable. The idea of this Special Issue is to present a collection of papers that describe the state-of-the-art in the field of application, research, and development of low-temperature systems, including their evaluation using methods of modern thermodynamics, heat transfer, and fluid dynamics as well as economic and environmental assessments and different methods of optimization.

Guest Editor

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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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