Special Issue

Optimal Design of Polygeneration Systems for Buildings

Message from the Guest Editors

Polygeneration provides a timely opportunity to tackle the growing energy demand from buildings with cost-efficiency and environmental sustainability. However, the major challenge of the optimal design of polygeneration systems for buildings lies in the complexity of the decisions to be taken: multiple energy resources, multiple energy products, multiple technology options, and multiple temporal scales. This Special Issue aims to gather the latest accomplishments in the field of polygeneration systems design optimization for buildings considering energy efficiency, economic benefits, environmental impacts, and/or regulatory conditions. Original research articles and reviews addressing current and new paradigms, targeting the incorporation of renewable energy sources, the integration of new and emerging technologies (including energy storage systems), the efficient management of the production of thermal and electrical energy, and the effective recovery of residual heat will be welcomed.

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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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