Special Issue

Smart Energy Networks: Thermal Balancing and Managing Issues

Message from the Guest Editors

Renewable smart energy grids promises to suitably address issues related to the environmental impact of the building sector, by supplying energy vectors with a limited environmental impact and primary energy consumption. On the other hand, the selection of the optimal layout, operating strategies, and component design parameters is extremely complex, considering the requirements in terms of grid thermal balancing and management. The papers included in this Special Issue will focus on the thermodynamic and energy analyses of the components/devices included in the grid and on the grid as a whole. Moreover, papers may also focus on computational fluid dynamics analysis and/or stationary and dynamic simulations of specific components included in the grids (e.g., ground heat exchanger, novel heat exchangers, or thermal storages). Special attention will also be paid to the analysis of the thermal management of electrochemical storage systems, including in the grid, in order to improve the electrical stability.

Guest Editors

Prof. Dr. Francesco Calise

Prof. Dr. Massimo Dentice D'Accadia

Dr. Maria Vicidomini

Dr. Francesco Liberato Cappiello

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Thermo
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
thermo@mdpi.com

mdpi.com/journal/thermo

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About the Journal

Message from the Editor-in-Chief

Thermo (ISSN: 2673-7264) is an international, peer-reviewed, and open access journal that publishes original research papers, reviews, and Special Issues dealing with experimental, theoretical, and applied thermal sciences. Both theoretical (simulation) and/or experimental research papers within our journal's scope are of particular interest, including satellite-related topics considering thermophysics, solubility phenomena, chemical thermodynamics, and chemical engineering. We encourage scientists to publish their results in as much detail as possible, and there is no restriction on the maximum length of papers. We greatly appreciate suggestions for enhancing the journal.

Editor-in-Chief

Prof. Dr. Johan Jacquemin
Materials Science, Energy, and Nano-Engineering MSN Department, Mohammed VI Polytechnic University, Hay Moulay Rachid, Lot 660, Ben Guerir 43150, Morocco

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