Special Issue

Urban District Heating and Cooling Technologies

Message from the Guest Editor

This new special issue will not only cover the main features of DHC networks and their current state-of-theart but will focus mainly on new advanced features. The use of renewable energy sources, recovered heat from urban or industrial waste, cooling from regasification plants, new low temperature distribution networks and the synergies with electricity and gas fuels networks are paving the way to the new concept of smart energy system with a higher scope than the more usual smart grid concept limited to the electricity grid. The mentioned and many other new developments will help to widespread the implementation of DHC networks especially for the case of cooling supply that is currently less developed and at the same time contribute in this way to achieve the internationally agreed commitments on the environment and climate change.

Keywords District heating and cooling networks; District heating and cooling networks; Heat pumps integration; Recovery of urban waste heat; Recovery of industrial waste heat.

Guest Editor

Prof. Dr. Joan Carles Bruno

Department of Mechanical Engineering, Universitat Rovira I Virgili, Avda. Països Catalans, 26, 43007 Tarragona, Spain

Deadline for manuscript submissions

closed (31 October 2019)



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/21632

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

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

