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New Advancement in Heat and Mass Transfer: Fundamentals and Applications

Guest Editors:

Dr. Guojun Yu
Merchant Marine College, Shanghai Maritime University, Shanghai 201306, China

Dr. Huijin Xu
China-UK Low Carbon College, Shanghai Jiao Tong Univeristy, Shanghai 201306, China

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Message from the Guest Editors

Heat and mass transfer, widely involved in various energy systems, has great impacts on the safety and energy consumption of these systems. Establishment of energy-efficient operation schemes for these systems requires good understanding of the heat and mass transfer characteristics.

This special issue aims to cover new advancement in heat and mass transfer, either fundamentals or applications, in differernt research fields. Topics of interest include, but are not limited to the following:

Fundamentals of heat and mass transfer:

- Multi-phase flow and heat transrer
- Multi-scale heat and mass transfer
- Combustion
- Heat and mass transfer in porous media
- Radiation
- Bio-fluid dynamics and heat transfer

Experimental and numerical research on heat and mass transfer related to:

- Fossil and and renewable energy using systems
- Energy conversion and storage systems
- Heat exchangers
- Fuel cells
- Heat pipe
- Air conditioning and refrigeration
- Heat transfer enhancement
- Theraml insulation

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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