Special Issue

Laminar and Turbulent Flow: Heat and Mass Transfer

Message from the Guest Editor

In the current context, it is important to develop tools which are useful to improve water and energy resources in industrial processes. It is necessary to study new designs or to analyze the performance of existing devices, because they are related to the power requirements for the pumping and sizing of pipes. Several tools can be used, based on theoretical equations, experimental research, or numerical simulations using computers. These tools, combined with the use of equipment to measure the properties of fluids to analyze their influence on the heat transfer process, are of great importance to the understanding of fluid flow. This is interesting for heat exchanger manufacturers. To better understand the heat transfer mechanism, it is interesting to carry out studies focused on the hydrodynamics behavior of the fluid. The aim of this Special Issue is to present the state of the art related to the use of theoretical, experimental, or computational fluid dynamics (CFD) tools related to heat transfer processes. The Special Issue invites advanced research carried out in heat transfer processes, which help to explain the heat transfer mechanism in engineering applications.

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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