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Thermal-Hydraulics in Nuclear Fusion Technology: R&D and Applications

Guest Editors:

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

In nuclear fusion technology, thermal-hydraulics is a key discipline employed in the design phase of the systems and components to demonstrate the performances, to ensure the reliability, to guarantee the efficient and economical operation. It is in charge of investigating the transients of the engineering systems: this includes the safety analysis. The thermal-hydraulics is required for the design and analysis of the cooling and ancillary systems; such as the blanket, the divertor, the cryogenic, and the balance of plant systems, as well as the tritium carrier, extraction and recovery systems.

We propose to collect and document the recent scientific advancements in a Special Issue which include, but are not limited to: thermal-hydraulic analyses of systems and components, including magneto-hydrodynamics; safety investigations of systems and components; numerical models and code development and application; codes coupling methodology; code assessment and validation, including benchmarks; experimental infrastructures design and operation; experimental campaigns and investigations; scaling issue in experiments.

Dr. Alessandro Del Nevo, Dr. Marica Eboli
Guest Editors

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Message from the Editor-in-Chief

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