

Special Issue

Multiphase Flow and Fluid Machinery

Message from the Guest Editors

The phenomena of various multiphase flows in fluid machinery have attracted increasing attention in recent years due to their common occurrence in various industrial processes, e.g., hydropower stations, chemical engineering, and marine propulsion. Various types of multiphase flows are associated with fluid machinery, i.e., cavitation, gas-liquid mixtures, bubbly flows, and particle flows, and they can usually deteriorate machinery's performance and affect its stability. Therefore, it is of great importance to clarify the mechanisms of the inception, development, and evolution of multiphase flows inside fluid machinery in order to develop effective techniques for flow control and geometrical optimization. The aim of this Special Issue is to collect the most recent advances in theoretical, experimental, and numerical studies on fluid machinery with multiphase flows, which could be useful for both fundamental research and engineering practice.

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Deadline for manuscript submissions

31 December 2026



Fluids

an Open Access Journal
by MDPI

Impact Factor 1.8
CiteScore 4.0



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