

Special Issue

Marine Fluid Mechanics: Research, Discovery and Applications

Message from the Guest Editor

Marine fluid mechanics represents a critical intersection of fundamental physics, environmental science, and engineering applications. This Special Issue aims to bring together cutting-edge research on fluid dynamics in marine environments. Topics of interest include wave–structure interactions, turbulent flows in coastal zones, multiphase dynamics in marine systems, and the fluid mechanics of renewable energy extraction from oceans. Studies on these topics hold direct practical value for optimizing offshore wind turbine foundation design, safeguarding coastlines against erosion, managing siltation in port channels, and enhancing the efficiency of energy conversion equipment. We welcome contributions that advance our understanding of complex marine flow phenomena, develop innovative numerical methods for marine applications, and provide insights into sustainable ocean engineering solutions. This Special Issue seeks to bridge the gap between fundamental research and practical applications in marine technology, addressing challenges in offshore engineering, coastal protection, marine renewable energy, and environmental sustainability.

Guest Editor

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Deadline for manuscript submissions

20 January 2027



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



mdpi.com/si/265573

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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

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