

Special Issue

Sensors and Instruments for Ocean Environment

Message from the Guest Editors

The ocean environment faces escalating challenges from climate change, pollution, and human activities. To address these challenges, advancements in sensor technologies and oceanographic instrumentation are essential for enabling the precise monitoring, sustainable management, and innovative exploration of marine environments. This Special Issue aims to spotlight cutting-edge advancements in sensors and instrumentation tailored for oceanographic applications. Contributions addressing the development, deployment, and integration of cutting-edge tools for measuring biological, chemical, physical, and geological parameters in diverse marine settings—from coastal zones to the deep sea—are highly encouraged. Topics include novel sensor materials, signal transmission in harsh underwater conditions, autonomous and intelligent sensing platforms, multisensory data fusion, and AI-driven analytics for real-time environmental assessment. We also welcome studies on the application of sensors in detecting pollutants, tracking biodiversity, assessing climate impacts, and supporting oceanographic research.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

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