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Advances in Bubble Acoustics

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Message from the Guest Editor

Dear Colleagues,

Bubble acoustics is one of the most diverse and exciting areas in fluid dynamics. Contemporary applications range from supercavitating marine vessels to the delivery of drugs across the blood-brain barrier, and from the measurement of ocean wave-breaking and industrial processes to the prediction of volcanic eruptions.

This Special Issue will be an archival collection of reviews and original research contributions on the latest developments in the theoretical, numerical and experimental understanding of all aspects of bubble acoustics. The natural sound emissions of bubbles, their response to vibrations and ultrasound, and their effects on industrial, defence, chemical and biological systems will be covered. Specific topics may include marine and industrial cavitation, passive bubble-size measurement in oceanic, industrial and geological contexts, sonochemistry, microfluidic devices, ultrasound contrast imaging, sonoporation for gene and drug delivery, cell stimulation and sonothrombolysis, and zoological studies.

Prof. Richard Manasseh

Guest Editor



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Special Issue



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