Special Issue

Bubble Dynamics

Message from the Guest Editors

The collapse of cavitation bubbles is mostly known due to its negative effects on marine and hydraulic machinery systems, such as erosion, noise and vibrations. In addition, cavitation bubbles have positive effects, such as cleaning surfaces, the inactivation of bacteria or synthetizing chemical substances. This Special Issue on Bubble Dynamics is focused on the recent advances in numerical and experimental works that help us to increase our understanding of cavitation bubble dynamics. The planned topics include (but are not limited to) the following areas: bubble dynamics, laser- and spark-induced bubbles, acoustic cavitation bubbles, cavitation-induced erosion and noise, cavitation control, thermal effects, nanobubbles and cavitation exploitation.

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