



## Present and Past Submarine Volcanic Activity

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue of Geosciences aims to gather new contributions about underwater investigations and to describe new approaches and results. The collection of different works with new ideas will enhance our knowledge of marine and submarine volcanoes. New research on these topics is welcome.

Most of the present and past volcanic activity on the Earth occurred in marine and submarine environments (over 1 million volcanoes) within different geodynamic contexts, the understanding of which plays a key role in plate tectonics theory. Much of volcanic islands' underwater structure and submarine volcanism remain almost unexplored because of the difficulty of direct observation of eruptive processes at depth. High-resolution geophysical and bathymetric surveys furnished the possibility to develop 2–3D geological models about volcanic structures, their feeding systems, hydrothermal system extension and depth, and made it possible to produce detailed digital elevation models. Therefore, multidisciplinary is an important tool to investigate deep marine environments which would otherwise be unreachable and to unravel what is going on below sea level.





## Editor-in-Chief

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## Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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