Special Issue

Adaptation of Marine Animals to Extreme Environments

Message from the Guest Editor

Marine animals have evolved in extreme environments such as polar regions, the deep sea, and hydrothermal vents by modifying their morphology, physiology, and behavior based on their genetic makeup. Though they are extraordinarily interesting and should be extensively explored, e.g., searching for creatures on Mars, our efforts to do just that have been hampered by the limited accessibility inherent in such locations. Even marine animals in the “boundary” zone (e.g., temperate, oxygen minimum) show a surprising acclimation ability to extreme weather events or unexpected changes to the environment. We can learn pivotal lessons from how these animals adapt to extreme environments and can even apply their mechanisms, functions, or biomaterials to future technology advancements. This Special Issue is open to scientists and engineers in any field who study the adaptation of marine animals to extreme environments and want to bring new insights and stimulate interactions between experts from diverse disciplines.

Guest Editor

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

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