Special Issue

Long-Term Signature of Carbon Cycle in Marine Systems: Evidence from Geochemistry

Message from the Guest Editors

Marine systems, including coastal systems, pelagic systems, and deep-sea systems, are providing a variety of geological evidence that is shedding light on the fields of geoscience, marine science, and astrobiology. Carbon moves through different carriers in the oceans as a large variety of organic molecules or ions, and is influenced by multiple oceanic conditions in different marine systems over long periods of geological time. Carbon cycles therefore play a significant role in several geological resources and energy. [...] This Special Issue was created to offer a platform for the scientific investigation of the signatures of carbon cycles in marine systems, as well as the interpretation of these signatures in relation to energy resources, sediment deposition, modern and geological climate change, paleo oceanic conditions, marine molecular biology, origins of life, and astrobiology. We are pleased to accept contributions from researchers worldwide, with a particular emphasis on organic geochemistry, inorganic geochemistry, molecular simulation, geostatistics, modelling, and gene discovery.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2026)

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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 coherentset 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.

Editor-in-Chief

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