

Special Issue

Monitoring Tools for the Sustainable Management of Organic Carbon in Coastal Ecosystems

Message from the Guest Editor

Coastal ecosystems such as mangroves, seagrass meadows, and salt marshes are critical to the global carbon cycle, sequestering and storing significant amounts of "blue carbon". However, accurately quantifying the stocks, fluxes, and dynamics of this organic carbon remains a major scientific challenge. The effective management and conservation of these vital ecosystems, as well as their integration into climate mitigation strategies, depends entirely on the robustness of the data and predictive models used. Recent advances in technology and computational power are revolutionizing our ability to monitor, model, and forecast carbon cycling processes from the molecular to the landscape scale. This Special Issue will highlight recent research on the development, application, and integration of the cutting-edge tools and methodologies used for understanding organic carbon cycling in coastal environments. We seek contributions that demonstrate how innovative approaches in sensing, remote observation, and modeling can bridge critical knowledge gaps and provide actionable insights for science-based policy and ecosystem management.

Guest Editor

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Editor-in-Chief

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