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Oceanographic Lidar in the Study of Marine Systems

Guest Editors:

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Deadline for manuscript submissions:
closed (20 December 2025)

Message from the Guest Editors

Dear Colleagues,

With new vertically resolved and diurnal continuous measurements, LiDAR can provide new insights into seawater bio-optical vertical structure, which will enhance our understanding of biogeochemical processes. This Special Issue aims to bring some of the leading scholars in the fields of LiDAR remote sensing, ocean optics, and marine biochemists to describe current and new active or passive remote sensing technologies, and collect the recent achievements of active and passive ocean optical remote sensing in recent years. This Special Issue welcomes:

- History or review of oceanographic LiDAR;
- Multiple scattering LiDAR signal simulation;
- Development of new algorithms of oceanographic LiDAR remote sensing;
- Evaluation of oceanographic LiDAR inversion algorithms;
- Applications of LiDAR techniques to retrieve profiles of biogeochemical parameters;
- Applications of LiDAR techniques for plankton diurnal variation;
- LiDAR remote sensing of aerosol or winds above ocean;
- Potential of new space-borne ocean LiDAR;
- Any other issues related to remote sensing of seawater vertical structure.

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Message from the Editorial Board

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