



# **Photobiogeochemistry of Organic Matter: Principles and Practices in Water Environments (Environmental Science and Engineering)**

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## Photobiogeochemistry of Organic Matter: Principles and Practices in Water Environments (Environmental Science and Engineering)

Photoinduced processes, caused by natural sunlight, are key functions for sustaining all living organisms through production and transformation of organic matter (OM) in the biosphere. Production of hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) from OM is a primary step of photoinduced processes, because H<sub>2</sub>O<sub>2</sub> acts as strong reductant and oxidant. It is potentially important in many aquatic reactions, also in association with photosynthesis. Allochthonous and autochthonous dissolved organic matter (DOM) can be involved into several photoinduced or biological processes. DOM subsequently undergoes several physical, chemical, photoinduced and biological processes, which can be affected by global warming. This book is uniquely structured to overview some vital issues, such as: DOM; H<sub>2</sub>O<sub>2</sub> and ROOH; HO•; Degradation of DOM; CDOM, FDOM; Photosynthesis; Chlorophyll; Metal complexation, and Global warming, as well as their mutual interrelationships, based on updated scientific results.

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