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Nota di contenuto	Organic Phosphorus in the Environment; Contents; Contributors; Preface; A Note on Nomenclature; Acknowledgements; 1. Separation, Preconcentration and Speciation of Organic Phosphorus in Environmental Samples; 2. Using Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy to Characterize Organic Phosphorus in Environmental Samples; 3. Organic Phosphorus Speciation in Natural Waters by Mass Spectrometry; 4. Abiotic Degradation of Organic Phosphorus Compounds in the Environment; 5. Enzymatic Hydrolysis of Organic Phosphorus; 6. Abiotic Stabilization of Organic Phosphorus in the Environment 7. Microbial Turnover of Phosphorus in Soil 8. Utilization of Soil Organic Phosphorus by Higher Plants; 9. Microbial Turnover of Organic Phosphorus in Aquatic Systems; 10. Ecological Aspects of Phosphatase Activity in Cyanobacteria, Eukaryotic Algae and Bryophytes; 11. Organic Phosphorus Dynamics in Tropical Agroecosystems; 12. Organic

Phosphorus Transfer from Terrestrial to Aquatic Environments; 13. Interactions of Organic Phosphorus in Terrestrial Ecosystems; 14. Organic Phosphorus in the Aquatic Environment: Speciation, Transformations and Interactions with Nutrient Cycles
15 Modelling Phosphorus, Carbon and Nitrogen Dynamics in Terrestrial Ecosystems
16. Modelling Organic Phosphorus Transformations in Aquatic Systems; 17. Synthesis and Recommendations for Future Research; Appendix: Organic Phosphorus Compounds in the Environment; Index

Sommario/riassunto

Organic phosphorus is involved in almost every biological process and is essential for life. However, the role of organic phosphorus and mechanisms for its dynamics has been poorly understood.
