

1. Record Nr.	UNINA9910784227403321
Titolo	Organic phosphorus in the environment [[electronic resource] /] / edited by Benjamin L. Turner, Emmanuel Frossard, Darren S. Baldwin
Pubbl/distr/stampa	Wallingford, UK ; ; Cambridge, MA, : CABI Pub., c2005
ISBN	1-280-86639-X 9786610866397 0-85199-067-3
Descrizione fisica	1 online resource (414 p.)
Altri autori (Persone)	Turner Benjamin L Frossard Emmanuel Baldwin Darren S
Disciplina	631.4/17
Soggetti	Soils - Phosphorus content Water - Phosphorus content Organophosphorus compounds - Environmental aspects Organophosphorus compounds - Toxicology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers presented at the Organic Phosphorus Workshop, held July 2003, Ascona, Switzerland.
Nota di bibliografia	Includes bibliographical references and index.
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.

---