1. Record Nr. UNINA9910972865803321

Titolo	Biogenic trace gases : measuring emissions from soil and water / / edited by P.A. Matson, R.C. Harriss
Pubbl/distr/stampa	Oxford [England] ; ; Cambridge, MA, USA, : Blackwell Science, 1995
ISBN	9786612189043 9781282189041 1282189042 9781444313819 1444313819
Edizione	[1st ed.]
Descrizione fisica	1 online resource (408 p.)
Collana	Methods in ecology
Altri autori (Persone)	MatsonP. A (Pamela A.) HarrissRobert C
Disciplina	574.5 574.5/222 574.5222
Soggetti	Atmospheric chemistry - Technique Bioclimatology - Technique Biogeochemistry - Technique Agricultural ecology - Technique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Biogenic Trace Gases: Measuring Emissions from Soil and Water""; ""Contents""; ""List of contributors""; ""The Methods in Ecology Series""; ""Preface""; ""CHAPTER 1: Trace gas exchange in an ecosystem context: multiple approaches to measurement and analysis""; ""CHAPTER 2: Enclosure-based measurement of trace gas exchange: applications and sources of error""; ""CHAPTER 3: Trace gas exchange across the air-water interface in freshwater and coastal marine environments""; ""CHAPTER 4: Trace gas exchange in freshwater and coastal marine environments: ebullition and transport by plants"" ""CHAPTER 5: Micrometeorological techniques for measuring biosphere-atmosphere trace gas exchange""""CHAPTER 6: Standard analytical methods for measuring trace gases in the environment"";

	""CHAPTER 7: Measurement of chemically reactive trace gases at ambient concentrations""; ""CHAPTER 8: Recent advances in spectroscopic instrumentation for measuring stable gases in the natural environment""; ""CHAPTER 9: Use of isotopes and tracers in the study of emission and consumption of trace gases in terrestrial environments"" ""CHAPTER 10: Microbial processes of production and consumption of nitric oxide, nitrous oxide and methane""""""CHAPTER 11: Process modelling and spatial extrapolation""; ""Index""
Sommario/riassunto	Trace gases are those that are present in the atmosphere at relatively low concentrations. Small changes in their concentrations can have profound implications for major atmospheric fluxes, and thereore, can be used as indicators in studies of global change, global biogeochemical cycling and global warming. This new how-to guide will detail the concepts and techniques involved in the detection and measurement of trace gases, and the impact they have on ecological studies. Introductory chapters look at the role of trace gases in global cycles, while later chapters go on to consider techniques f