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	Titolo	Tetrahedron
	Pubbl/distr/stampa	Oxford : Pergamon Press
	ISSN	0040-4020
	Descrizione fisica	v. : ill. ; 27 cm
	Disciplina	547.05
	Soggetti	Chimica organica -- Periodici
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Periodico
	Note generali	Comincia nel 1957 Descrizione basata su: Vol.66, n.1(2010)
2.	Record Nr.	UNINA9910298300303321
	Titolo	Antarctic Terrestrial Microbiology : Physical and Biological Properties of Antarctic Soils / / edited by Don A. Cowan
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
	ISBN	3-642-45213-2
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (324 p.)
	Disciplina	551 570 579.135 579.17
	Soggetti	Microbial ecology Bacteriology Microbial genetics Microbial genomics Geology Microbial Ecology Microbial Genetics and Genomics Antarctic Regions Antarctica Antarktis

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.
Nota di contenuto	General Introduction -- Bacterial Community Structures of Antarctic Soils -- Fungal Diversity in Antarctic Soils -- Invertebrates -- What Do We Know About Viruses in Terrestrial Antarctica? -- Microbiology of Eutropic Soil -- Fell-field Soil Microbiology -- Biological Soil Crusts -- Lithic Habitats -- Microbial Ecology of Geothermal Habitats in Antarctica -- Microbial life in Antarctic Permafrost Environments -- Primary Production and Links to Carbon Cycling in Antarctic Soils -- Climate Change and Microbial Populations -- Threats to Soil Communities: Human Impacts -- Antarctic Climate and Soils -- Antarctic Soil Properties and Soilscales -- Origins of Antarctic Soils.
Sommario/riassunto	<p>This book brings together many of the world's leading experts in the fields of Antarctic terrestrial soil ecology, providing a comprehensive and completely up-to-date analysis of the status of Antarctic soil microbiology. Antarctic terrestrial soils represent one of the most extreme environments on Earth. Once thought to be largely sterile, it is now known that these diverse and often specialized extreme habitats harbor a very wide range of different microorganisms. Antarctic soil communities are relatively simple, but not unsophisticated. Recent phylogenetic and microscopic studies have demonstrated that these communities have well established trophic structuring, and play a significant role in nutrient cycling in these cold, and often dry desert ecosystems. They are surprisingly responsive to change, and potentially sensitive to climatic perturbation. Antarctic terrestrial soils also harbor specialized 'refuge' habitats, where microbial communities develop under (and within) translucent rocks. These cryptic habitats offer unique models for understanding the physical and biological 'drivers' of community development, function and evolution.</p>