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Titolo	Mycorrhizas: Novel Dimensions in the Changing World [[electronic resource] /] / by Manzoor Ahmad Shah
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ISBN	81-322-1865-5
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Descrizione fisica	1 online resource (97 p.)
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Soggetti	Plant science Botany Ecology Plant ecology Biodiversity Conservation biology Plant Sciences Ecology Plant Ecology Conservation Biology/Ecology
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- 1. Mycorrhizas: An Overview -- 2. Mycorrhizas: Global Patterns and Trends -- 3. Mycorrhizas and Global Climate Change -- 4. Mycorrhizas in Relation to Plant Rarity and Invasiveness -- 5. Mycorrhizas and Ecological Restoration -- 6. Mycorrhizas in Extreme Environments -- 7. Mycorrhizas in Aquatic Plants -- 8. Approaches to Mycorrhizal Studies -- Glossary -- Index -- Bibliography. .
Sommario/riassunto	The book provides basic knowledge in mycorrhizal ecology, knitted with novel conceptual frameworks and contemporary perspectives, especially in the context of global change. In a fast changing world wherein anthropogenic climate change, biological invasions, deforestation, desertication, and frequent droughts have become

routine hard realities, the contents of this book urge readers to rethink basic notions of setting and accomplishing objectives in mycorrhizal research to make sense vis-à-vis contemporary challenges. In this book, a global perspective of mycorrhizal diversity and distribution is provided, followed by some insights into the impact of various global change elements such as climate change, plant invasion, and extreme environmental conditions on mycorrhizas and the role of these mutualists in turn to help their host plants to withstand such novel selection pressures. Special attention here is given to the interesting, but largely neglected, topics such as the role of mycorrhizas in ecological restoration of degraded environments and mycorrhizal status of aquatic plants. The basic idea is to unify various topical areas in mycorrhizal science in an integrated framework. This book can be used by the undergraduate and graduate level students studying mycorrhizal symbioses in the context of current ecological applications. The materials in this book will benet biological scientists actively involved in research on mycorrhizal ecology and global environmental change. Besides, the contents of the book could be of special interest to restoration ecologists and biodiversity managers.