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Descrizione fisica	1 online resource (VI, 82 p. 58 illus., 30 illus. in color.)
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Arsenic hyperaccumulator <i>Pteris Vittata</i> L. and its arsenic accumulation -- Arsenic hyperaccumulation mechanisms: absorption, transportation and detoxification -- Establishment of phytoremediation technology for arsenic contaminated sites -- Application of phytoremediation technology to typical mining sites in China -- Enhancement of arsenic removal in phytoremediation of arsenic contaminated soils.
Sommario/riassunto	This book introduces readers to the main theories of phytoremediation and its application to arsenic-contaminated soils in China. The hyperaccumulation theories are introduced, including the use of hyperaccumulators to remove large amounts of arsenic without producing toxic symptoms. The use of synchrotron-based X-ray absorption fine structure radiation to disclose the hyperaccumulation mechanism – a method that makes it possible to detect the elements in plant tissues without destroying the sample – is introduced in detail. This book also includes practical application cases of phytoremediation, which are rarely found in the literature. Allowing readers to gain a thorough understanding of phytoremediation technology, and demonstrating its efficiency in cleaning arsenic-contaminated soils, the book offers a valuable asset for graduate students, lecturers, researchers and engineers in the field of soil

remediation. .
