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| Titolo                  | Phytoremediation : In-situ Applications / / edited by Brian R. Shmaefsky                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Edizione                | [1st ed. 2020.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Descrizione fisica      | 1 online resource (VIII, 367 p. 38 illus., 28 illus. in color.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Collana                 | Concepts and Strategies in Plant Sciences, , 2662-3188                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disciplina              | 628.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Soggetti                | Botany<br>Agriculture<br>Pollution<br>Botanical chemistry<br>Plant Sciences<br>Pollution, general<br>Plant Biochemistry<br>Fitoremediació<br>Llibres electrònics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Nota di bibliografia    | Includes bibliographical references.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nota di contenuto       | In-Situ Phytoremediation of Metals -- Phytoremediation of Organic Pollutants -- Phytoremediation of Agricultural Pollutants -- Principles of Phytoremediation -- Rhizobacteria enhance root exudation, metal uptake and plant growth under abiotic stress -- Exploiting the Rhizosphere for Phytoremediation Enhancement -- Phytoremediation of metals by aquatic macrophytes -- Phytoremediation using crop plants -- Phytoremediation using algae -- Impact of munitions compounds on native vegetation -- Phytoremediation of soils contaminated by hydrocarbon -- Exploitation of Rhizosphere for Phytoenhancement of HM Contaminated Industrial Soils using MYCORRHIZOREMEDIATION Technology -- Phytoremediation using Native Plants -- Phytoremediation using Aquatic Plants -- Growing Role of Biotechnology in Phytoremediation -- History of Phytoremediation -- Exploiting the Rhizosphere for Phytoremediation Enhancement -- Phytoremediation of wastewater -- Rhizosphere for Phytoremediation |

Enhancement.

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Sommario/riassunto

This book provides in-situ phytoremediation strategies that are particularly well suited for developing nations. Its goal is to promote the use of field-tested phytoremediation methods for removing soil and water pollutants from agricultural, industrial, military, and municipal sources. These strategies include using algae and a variety of aquatic and terrestrial plants. The book subsequently discusses the use of crops and native plants for phytoremediation, and how phytoremediation efforts impact the rhizosphere. After having finished the book, readers will be able to directly adapt the strategies described here for their specific purposes. .

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