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| Descrizione fisica | 1 online resource (302 p.) |
| Collana | Advances in agroecology |
| Altri autori (Persone) | CheekeTanya E <1978-> (Tanya Elizabeth Amy) ColemanDavid C. <1938-> WallDiana H |
| Disciplina | 631.4/6 |
| Soggetti | Soil microbial ecology Agricultural ecology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Front Cover; Contents; Foreword; Preface; Acknowledgments; About the Editors; Contributors; Chapter 1: Soil ecology and agroecosystem studies: A dynamic and diverse world; Chapter 2: Manipulation of beneficial microorganisms in crop rhizospheres; Chapter 3: The influence of heterogeneity on soil microbial processes in agroecosystems: Theory, evidence, and opportunities; Chapter 4: Soil food webs in agricultural ecosystems; Chapter 5: Community composition of soil organisms under different wheat-farming systems; Chapter 6: The biological basis for nitrogen management in agroecosystems Chapter 7: The contribution of arbuscular mycorrhizal fungi to the success or failure of agricultural practicesChapter 8: Effects of the cultivation of genetically modified Bt crops on nontarget soil organisms; Chapter 9: Maize legume relay intercrops in Malawi: Meeting short- and long-term sustainability goals; Chapter 10: Making soil biodiversity matter for agriculture: Ecosystem services and challenges |
| Sommario/riassunto | While soil ecologists continue to be on the forefront of research on biodiversity and ecosystem function, there are few interdisciplinary |

studies that incorporate ecological knowledge into sustainable land management practices. Conventional, high fossil-fuel input-based agricultural systems can reduce soil biodiversity, alter soil community structure and nutrient cycling, and lead to greater dependence on energy-intensive practices. Microbial Ecology in Sustainable Agroecosystems brings together soil ecologists, microbial ecologists, and agroecologists working globally to demonstrate how resea
