	UNINA9910409700503321
	Biology of Composts / / edited by Mukesh K. Meghvansi, Ajit Varma
ampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	3-030-39173-6
	[1st ed. 2020.]
sica	1 online resource (XI, 291 p. 39 illus., 26 illus. in color.)
	Soil Biology, , 1613-3382 ; ; 58
	576.028
	Microbiology
Soggetti	Microbial ecology
	Botany
	Biotechnology
	Waste management
	Environmental geology
	Microbial Ecology
	Plant Sciences
	Waste Management/Waste Technology
	Geoecology/Natural Processes
	Microbiologia
	Compostatge
	Geologia ambiental
	Agricultura
	Llibres electrònics
blicazione	Inglese
	Materiale a stampa
Irafico	Monografia
nuto	Part 1. Composting: Paradigms and Mechanisms 1. Compost and Compost Tea Microbiology: the "-Omics" Era 2. Biological Sterilisation, Detoxification and Stimulation of Cucurbitacin-containing Manure 3. Nematode succession during composting process 4. Review on Physiological Effects of Vermicomposts on Plants 5. Interaction of Earthworm Activity with Soil Structure and Enzymes 6. Survival of Pathogenic and Antibiotic Resistant Bacteria in Vermicompost, Sewage Sludge and other Types of Composts in
	sica

	Temperate Climate Conditions Part 2. Modern Tools and Techniques for Composting Research 7. Molecular Tools and Techniques for Understanding the Microbial Community Dynamics of Vermicomposting 8. Molecular Tools and Techniques for Understanding the Microbial Community Dynamics of Vermicomposting 9. Recent Advances in Assessing the Maturity and Stability of Compost 10. Application of Nanotechnology to Research on the Microbiology of Composting Part 3. Composting Applications 11. Bioremediation of Pesticides in Soil Through Composting: Potential and Challenges 12. Current Trends and Insights on Compost Utilization Studies - Crop Residue Composting to Improve Soil Organic Matter in Sugarcane Cultivation, Tamil Nadu, India 13. Applications of Streptomyces spp. Enhanced Compost in Sustainable Agriculture.
Sommario/riassunto	This book highlights the latest findings on fundamental aspects of composting, the interaction of various microorganisms, and the underlying mechanisms. In addition to addressing modern tools and techniques used for composting research, it provides an overview of potential composting applications in both agriculture and environmental reclamation. Composting is the process of organic waste decomposition, mediated by microorganisms. The end-product is called 'compost' and can be used as a supplement to improve soil fertility. As the municipal waste generated in most developing countries contains a substantial amount of organic matter suitable for composting, this technology offers a win-win opportunity for stakeholders in terms of disposing of organic waste and providing organic fertilizers for agriculture. In addition, using compost reduces the dependency on harmful chemical fertilizers, and represents a sustainable and environmentally friendly alternative.