

1. Record Nr.	UNINA9911007211303321
Titolo	Microbial Nanotechnology : Advances in Agriculture, Industry and Health Sectors // ed. by Vikas Kumar, Manoj Singh
Pubbl/distr/stampa	Berlin ; ; Boston : , : De Gruyter, , [2022] ©2023
ISBN	9781523154630 1523154632 9783110754476 3110754479
Edizione	[1st ed.]
Descrizione fisica	1 online resource (VI, 246 p.)
Disciplina	610.28
Soggetti	SCIENCE / Chemistry / General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- Contents -- Microbe-assisted synthesis of nanoparticles and nanotechnology horizons for their applications in various sectors -- Microbially synthesized nanoparticles: implications and their applications in agriculture -- Microbial nanotechnology and its indispensable role in sustainable agriculture -- Application of microbial nanomaterials in the remediation of pollutants -- Biomedical applications of nanotechnology in development of novel drug delivery system to tackle future challenges -- Therapeutic and diagnostic approaches of microbial nanodevice in biomedical sciences -- Realms of nanostructured microbial enzymes: formulation, characterization and novel opportunities -- Manufacturing of nanomaterials from microbial sources and their roles in industrial innovations -- Distinctive applicative potential of microbial nanoparticles in food technology: a comprehensive understanding -- Development of microbial-based nanosensors and their applications: the state of the art -- Index
Sommario/riassunto	Applications of microbial nanotechnology are currently emerging with new areas being explored. Biosynthesis of nanomaterials by microorganisms is a recently attracting interest as a new, exciting approach towards the development of 'greener' nanomanufacturing

compared to traditional chemical and physical approaches. This book will cover recent advances of microbial nanotechnology in agriculture, industry, and health sectors.

---