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Autore	Shah Maulin P
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Nota di contenuto	<p>Bionanotechnology: Concepts, historical developments, and applications -- Biogenic nanomaterials: Synthesis, characterization, and applications -- Biogenic synthesis of nanomaterials: Plant diversity -- Biogenic synthesis of nanomaterials: Microbial diversity- Algae, bacteria, fungi, and others -- Biogenic synthesis of nanomaterials: Bioactive compounds as reducing, and capping agents -- Role of bioactive compounds in synthesis of nanomaterials: insights -- Biogenic nanomaterials as antimicrobial agents -- Nanomaterials induced cell disruption: An insight into mechanism -- Nanomaterials in drug delivery -- Biogenic nanomaterials for degradation of organic and inorganic pollutants -- Biogenic nanomaterials as catalyst for photocatalytic dye degradation -- Biogenic nanomaterials as adsorbents for heavy metal remediation -- Biogenic nanomaterials for remediation of Polyaromatic Hydrocarbons -- Biogenic nanomaterials for remediation of pharmaceutical products -- Biogenic nanomaterials for remediation of biocides-insecticides, pesticides and others -- Metal nanoparticles and algal lipid synthesis: An insight -- Metal nanoparticles and microbial (algal) metabolism -- Nanomaterials to enhance algal lipid productivity: Recent advancements -- Biogenic nanomaterials as fuel additives -- Bionanotechnology: Opportunities and challenges.</p>
Sommario/riassunto	<p>Environmental pollution is a worldwide concern now. A major section of the world population is struggling for drinking water. Polluted soil is resulting into low agricultural productivity and thus creating challenges in the way of sustainable livelihood of a large section of human population. Biological treatment can offer both green solutions for wastewater treatment and resource recovery as well. Like algal-based systems can be utilized for wastewater treatment and production of biofuels from the biomass grown on the wastewater. Bio-based nanomaterials have been extensively studied for their employability in the health care, process optimization, water resource management, dealing with environmental pollutants, biosensors, and many others. Bioprospecting of novel biological agents, bio-based products, and bioresource recovery are paving the way for sustainable development as they are providing local solutions for a number of problems. In this proposed book, we start with the introduction to bio-nanotechnological principles and later on discuss bio-based nanomaterials employability for a diverse range of applications from environment to energy to health care. This book provides with current trends in bio-nanotechnology for anthropogenic purposes, prospects, challenges, and way forward.</p>