

mineral biotechnology microbial aspects pdf

Biomining is a technique of extracting metals from ores and other solid materials typically using prokaryotes or fungi. These organisms secrete different organic compounds that chelate metals from the environment and bring it back to the cell where they are typically used to coordinate electrons.

Biomining - Wikipedia

The most successful copper heap leaching operations have been those processing copper oxides and secondary copper sulphides. Chalcocite (Cu_2S) is the main copper sulphide mineral mined at bioleaching operations.

The bioleaching of sulphide minerals with emphasis on

1. Introduction Plastics are man made long chain polymeric molecules (Scott, 1999). More than half a century ago synthetic polymers started to substitute natural materials in almost every area and nowadays plastics have become an indispensable part of our life.

Biological degradation of plastics: A comprehensive review

A biofilm comprises any syntrophic consortium of microorganisms in which cells stick to each other and often also to a surface. These adherent cells become embedded within a slimy extracellular matrix that is composed of extracellular polymeric substances (EPS).

Biofilm - Wikipedia

6 Unit- IV Introduction to biotechnology, recombinant DNA technology, plant tissue culture, methods of gene transfer, transgenic plants, biotechnology and healthcare, microbial and environmental biotechnology.

Proposed Syllabus for B.Sc. Botany - Chhatrapati Shahu Ji

Abstract. Microbial cellulases have shown their potential application in various industries including pulp and paper, textile, laundry, biofuel production, food and feed industry, brewing, and agriculture.

Microbial Cellulases and Their Industrial Applications

INTRODUCTION. Citric acid ($\text{C}_6\text{H}_8\text{O}_7$, 2-hydroxy-1,2,3-propane tricarboxylic acid), a natural constituent and common metabolite of plants and animals, is the most versatile and widely used organic acid in the field of food (60%) and pharmaceuticals (10%).

Microbial production of citric acid - SciELO

3 UNIT IV: Environmental Technology (15lectures) 1. Sources, generation, classification & composition of solid wastes.

4. 114 M.Sc. Life Science - Mu

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Nitrous oxide is a colorless, sweet-tasting gas. It is also known as "laughing gas". Continued breathing of the vapors may impair the decision making process.

Nitrous oxide | N₂O - PubChem

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One-Hundred-and-Twenty-Sixth Annual Undergraduate Bulletin

RESEARCH ARTICLES Enhancement of Critical Parameters of Natural Ester Liquids Using SiO₂ Insulating Nanoparticle M. Srinivasan, U. S. Ragupathy, and A. Raymon

American Scientific Publishers - Journal of Computational

Nanotoxicology is the study of the toxicity of nanomaterials. Because of quantum size effects and large surface area to volume ratio, nanomaterials have unique properties compared with their larger counterparts.

Nanotechnology Risks | Future For All

Removing manganese (Mn) from drinking water sources is an objective for many water utilities. The motivation for Mn removal is typically driven by aesthetic water quality concerns and potential distribution system issues, rather than public health concerns.

Manganese Removal from Drinking Water Sources | SpringerLink

2.2.1. Magnetic Nanoparticles. Magnetic nanoparticles are recently developed new materials, due to their unique microconfiguration and properties like super paramagnetic and high coercive force, and their prospect for broad applications in biological separation and biomedicine fields.

Biosynthesis of Nanoparticles by Microorganisms and Their

Christopher Osgood, Chair. The Department of Biological Sciences offers a broad selection of course offerings. The undergraduate curriculum is based on a two-semester foundations course and core courses that provide a well-rounded introduction to the major subdisciplines of biology.

Biological Sciences < Old Dominion University

Biofilm is an association of micro-organisms in which microbial cells adhere to each other on a living or non-living surfaces within a self-produced matrix of extracellul..

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