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Waste-to-resource: Enhanced production of cellulases and lichenase from lignocellulosic waste by *Bacillus subtilis*

Raza, Junaid Ahmad; Aslam, Aqsa; Ahmed, Sibtain; Andaleeb, Hina; Waseem, Sheikh Muhamad Ali; International Biodeterioration & Biodegradation

Microbial enzymes such as cellulases and lichenase hold great importance in industrial and biotechnological applications. A recent study demonstrates the successful enhancement of cellulase and lichenase production in *Bacillus subtilis* using lignocellulosic waste as a substrate.

Cited publication:

Strain improvement and optimization for enhanced production of cellulase in *Cellulomonas*

Structural and functional responses of microbial communities in coastal sediments to oil pollution caused by ship breaking activities

Patel, Avani Bharatkumar; Jain, Kunal R.; Gupta, Vipin; Lal, Rup; Madamwar, Datta; Marine Environmental Research

Coastal ecosystems, like many others on the planet, face chronic threats from anthropogenic activities. Ship Breaking Yard (ASSBY) located near Bhavnagar in Gujarat, India, represents one such ecosystem. The study investigates the structural and functional responses of microbial communities in coastal sediments to oil pollution caused by ship breaking activities.

Cited publication:

The Degradation of Phenanthrene, Pyrene, and Fluoranthene and Its Conversion into Polyhydroxyalkanoate by Novel Polycyclic Aromatic Hydrocarbon-Degrading Bacteria

Kinetic, thermodynamic, and reaction mechanism analysis of apple pomace (*Malus Domestica*) bioenergy potential using single and multi-step (Deconvolution) approaches

Imtiyaz, Nimaan; Rasool, Tanveer; Bioresource Technology Reports

The multi-step deconvolution approach was employed to analyze the behavior of pyrolysis of apple pomace (*Malus Domestica* Borkh) through constituents hemicellulose (HCp), cellulose (Cp), and lignin (Lp).

Cited publication:

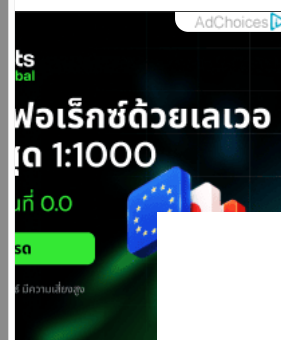
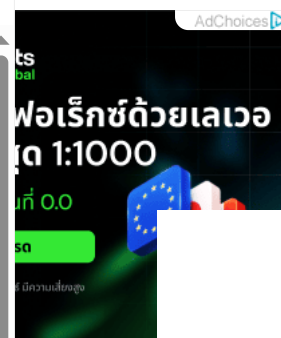
The Production of Ethanol and Hydrogen from Pineapple Peel by *Saccharomyces cerevisiae* and *Clostridium* spp.

Microbial Polyhydroxyalkanoates: Recovery Methods, Biopolymer Processing, Characterization, and Applications

Murawski de Mello, Ariane Fatima; Vandenberghe, Luciana Porto de Souza; Machado, Clara Maria; Wolfart, Soccol, Carlos Ricardo; Separation And Purification Reviews

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Polyhydroxyalkanoates (PHAs) are a family of bio-based and biodegradable bioplastics that have potential alternatives to conventional plastic materials. PHAs are produced through bioprocess microorganism...

Cited publication:

Bio-based modification of polyhydroxyalkanoates (PHA) towards increased antimicrobial activity and reduced cytotoxicity

Poly[hydroxybutyrate-co-hydroxyvalerate] and cellulose biocomposite membrane derived from sugarcane bagasse for Congo red dye and vegetable oil removal in water remediation

Choonut, Aophat; Reungsang, Alissara
Plos One

Environmental contamination from textile dyes and oil residues poses a critical environmental problem, highlighting the need for sustainable wastewater treatment strategies. A biocomposite membrane was developed for the removal of Congo red dye and vegetable oil from wastewater.

Cited publications:

An Environmentally Friendly Process for Textile Wastewater Treatment with a Medium Chain Length Polyhydroxyalkanoate Film

Novel Polyhydroxyalkanoate-Based Biocomposites Obtained by Solution Casting and Their Application in Bacteria Removal and Domestic Wastewater Purification

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Waste-to-resource:
Enhanced production of
cellulases and
lichenase from
lignocellulosic biomass
via mutated *Bacillus subtilis*

Raza, JA; Aslam, A; (...); Waseem, SMY

Jan 15 2026

| INTERNATIONAL
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Microbial enzymes such as
cellulases and lichenase hold great
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Structural and functional responses of microbial communities in coastal sediments towards anthropogenic pollution caused by ship breaking activities

Patel, AB; Jain, KR; (...); Madamwar, D

Jan 2026

| MARINE ENVIRONMENTAL RESEARCH

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Coastal ecosystems, like many others on the planet, face chronic threats from anthropogenic

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Kinetic, thermodynamic, and reaction mechanism analysis of apple pomace (*Malus Domestica Borkh*) for bioenergy potential using single and multi-step (Deconvolution) approaches

Imtiyaz, N and Rasool, T
Dec 2025
| BIORESOURCE TECHNOLOGY
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The multi-step deconvolution approach was employed to analyze the behavior of pyrolysis of apple

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Microbial Polyhydroxyalkanoates: Recovery Methods, Biopolymer Processing, Characterization, and Potential Applications

de Mello, AFM; Vandenberghe, LPD; (...); Soccol, CR
Nov 2025 (Early Access)
| SEPARATION AND PURIFICATION
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Polyhydroxyalkanoates (PHAs) are a family of bio-based and biodegradable bioplastics that

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5 **Poly[hydroxybutyrate-co-hydroxyvalerate] and cellulose biocomposite membrane derived from sugarcane bagasse for Congo red dye and vegetable oil removal in water remediation**

Choonut, A and Reungsang, A
Nov 6 2025 | PLOS ONE 20(11)

Environmental contamination from textile dyes and oil residues poses a critical environmental and public

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▼ [Cited publications \(2\).](#)

6 **2D-2D MoS₂/g-C₃N₄ hybrid-loaded chitosan/PVA hydrogel for controlled curcumin delivery in diabetic wound healing**

Rakkan, T; Topham, PD; (...);
Worajittiphon, P
Nov 2025
| INTERNATIONAL JOURNAL OF
BIOLOGICAL MACROMOLECULES
330

Diabetic wounds are often chronic, delaying healing and increasing amputation risk. Curcumin (CR),

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Comparative study and advancement in biocatalysis and hybrid catalysis with life cycle assessment for biodiesel production: Step forward in sustainability and environmental impact reduction: A review

Chandra, K; Dubey, S; (...);
Singhania, RR
Oct 2025 (Early Access)
| ENERGY & ENVIRONMENT

The rising global population and the environmental impact of fossil-fuel dependency have intensified

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∨ [Cited publications \(2\)](#).

8 RSM-BBD optimization of transesterification reaction using g-C₃N₄ nanocatalyst with waste cooking oil for biodiesel production

Monika; Pathak, VV and Banga, S
Oct 2025 (Early Access)
| ENVIRONMENTAL TECHNOLOGY

In this study, waste cooking oil was subjected to heterogeneous transesterification using a graphitic

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∨ [Cited publication \(1\)](#).

9 Biodegradation of polyhydroxyalkanoate

film in soil: a sustainable approach for bioplastic management

Rajgadia, N; Joshi, S and Debnath, M

Oct 2025 (Early Access)
| PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY

Polyhydroxyalkanoate (PHA) is a sustainable bioplastic biomaterial primarily produced by

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Potential oil sources, conversion routes and limiting factors in sustainable al production - A comprehensive outlook



Gizaw, DG; Periyasamy, S; (...); Sivashanmugam, P
Dec 2025
| JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL