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State of the Art and Progress in Production of Biohydrogen

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About the ebook

Biohydrogen has significant economical since biological processes are much less energy intensive compared with electrolysis and thermo-chemical processes. Topics covered in this reference include progress in hydrogen production by light-driven processes, dark fermentation, hydrogen production from waste materials, the role of molecular engineering for enhanced hydrogen production, and post-production processing such as hydrogen purification and storage.

Contents

- ▶ Introduction: Biohydrogen in Perspective
- ▶ Hydrogenase Genes and Enzymes Involved in Solar Hydrogen Production
- ▶ Photosynthetic Hydrogen Production: Mechanisms and Approaches
- ▶ Hydrogen Production via Photofermentation
- ▶ Integration of Biological H₂ Producing Processes
- ▶ Fundamentals of Dark Hydrogen Fermentations: Multiple Pathways and Enzymes
- ▶ Biohydrogen Production via Fermentation of Biowastes by Microorganisms

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