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Biohydrogen Production : Fundamentals and Technology ...

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Biohydrogen production using waste is relatively less energy intensive, operational, and economically feasible, and sustainable technology for future energy demands; simultaneously, it also contributes to the growth of a biobased economy.

Biohydrogen Production - an

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Biohydrogen is a type of biofuel like others i.e. bioethanol, biodiesel, bio-oil etc. Hydrogen can produce by both chemical and biological method. The method, by which the hydrogen is produced biologically by the use of microorganisms, in a bioreactor will refer as Biohydrogen.

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Biohydrogen Production and Hybrid Process Development ...

Biohydrogen Production: Fundamentals

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Fundamentals and Technology ...

Ghosh R, Bhadury P, Debnath M (2017) Characterization and screening of algal strains for sustainable biohydrogen production: primary constraints. In: Singh A, Rathore D (eds) Biohydrogen production: sustainability of current technology and future perspective. Springer India, New Delhi, pp 115–146.

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Biohydrogen Production

Technology: Fundamentals and ...

“Biohydrogen Production: Sustainability of Current Technology and Future Perspective” is giving an insight for the sustainable production of biohydrogen at

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industrial scale. The process of biohydrogen production is complex and to opt the best suited production system for industrial scale is a frantic task.

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About this book. This book comprehensively introduces

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fundamentals and applications of fermentative hydrogen production from organic wastes, consisting of eight chapters, covering the microbiology, biochemistry and enzymology of hydrogen production, the enrichment of hydrogen-producing microorganisms, the pretreatment of various organic wastes for hydrogen production, the

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influence of different physicochemical factors on hydrogen production, the kinetic models and simulation of biological ...

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processes are not only environmentally friendly, but also inexhaustible (Benemann, 1997; Greenbaum, 1990). In addition, they can also be produced using waste as substrate. Thus, they may solve the dual problem of waste disposal and energy generation.

Biological Hydrogen Production - an

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Biohydrogen production is based on H₂producing enzymes, the hydrogenases and nitrogenases.

Hydrogenases are present in all three domains of life, archaea (methanogens and some extremophiles), the bacteria (the rest of the procaryotes) and the eucaryotes (in particular the green

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Biohydrogen - The Microbiological Production of Hydrogen Fuel

The production of biohydrogen from bio-oil includes two key steps. First step is the production of bio-oil by fast pyrolysis of biomass and the second step is reforming of bio-oil to biohydrogen. If

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biohydrogen production plant is integrated with the bio-oil production plant, there is no need to transport bio-oil.

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Alternatively, the production of H₂ from biomass through biological pathways is

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an emerging technology because it is ...
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