

recent advances in biomass pdf

1. Introduction. The ocean is the source of life , and the sea area cover about 71% of the world's total oceans and land. Marine life has higher bioactivity and more functions compared with organisms on land, but are less explored and investigated.

Recent advances in chitin based materials constructed via

1. Introduction. In the 21st century, the trend of science and technology is tending towards environmentally friendly materials, renewable resources and energy, as well as sustainable techniques and processes.

Recent advances in regenerated cellulose materials

A biofuel is a fuel that is produced through contemporary biological processes, such as agriculture and anaerobic digestion, rather than a fuel produced by geological processes such as those involved in the formation of fossil fuels, such as coal and petroleum, from prehistoric biological matter. If the source biomatter can regrow quickly, the resulting fuel is said to be a form of renewable ...

Biofuel - Wikipedia

PoPulation and develoPment Review 37(4): 613â€“636 (decemBeR 2011) 613 Harvesting the Biosphere: The Human Impact Va c l a V Smil the human species has evolved to become the planetâ€™s dominant organism in what has been, on the biospheric time scale of billions of years, a very

Harvesting the Biosphere: The Human Impact

Attribution of recent climate change is the effort to scientifically ascertain mechanisms responsible for recent climate changes on Earth, commonly known as 'global warming'. The effort has focused on changes observed during the period of instrumental temperature record, particularly in the last 50 years. This is the period when human activity has grown fastest and observations of the atmosphere ...

Attribution of recent climate change - Wikipedia

Abstract. While the ecological impacts of fishing the waters beyond national jurisdiction (the â€™high seasâ€™) have been widely studied, the economic rationale is more difficult to ascertain because of scarce data on the costs and revenues of the fleets that fish there.

The economics of fishing the high seas | Science Advances

Many studies around the globe have identified plant production facilities as major sources of plant pathogens that may be released in the wild, with significant consequences for the health and integrity of natural ecosystems.

California Agriculture - Current issue and featured articles

Americans have grown increasingly concerned about U.S. dependence on oil imports and greenhouse gas emissions in recent years, resulting in greater interest in fuels like

www.dieselforum.org

Rehap has been developing 2,3-butanediol (BDO) production from two biomasses in the project, bark and poplar, and here are some of their most recent advances.

Developments in 2,3-butanediol production from biomass

Microalgal cell-free extracts are already being tested as additives for food and feed formulation, in attempts to replace antimicrobial compounds of synthetic origin currently in use – including subtherapeutical doses of antibiotics

Antimicrobial activities of microalgae: an invited review

4 SUMMARY REPORT The State of the World's Land and Water Resources for Food and Agriculture
PREFACE Feeding a growing population Land and water resources and the way they are used are central to the challenge of improving food security across the world.

THE STATE OF THE WORLD'S - Food and Agriculture

The Boston Consulting Group (BCG) is a global management consulting firm and the world's leading advisor on business strategy. We partner with clients in all sectors and regions to identify

Green Manufacturing White Paper V19 - CII

ABSTRACT. With the development of molecular marker technology in the 1980s, the fate of plant breeding has changed. Different types of molecular markers have been developed and advancement in sequencing technologies has geared crop improvement.

DNA molecular markers in plant breeding: current status

Abstract. In the last two decades, the widespread application of genetic and genomic approaches has revealed a bacterial world astonishing in its ubiquity and diversity.

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