Algae bioenergy

The use of algae serves as an effective means to mitigate air pollution, as algae generate around 50% of the Earth"s oxygen via photosynthesis [8]. Microalgae bioenergy presents an opportunity to diversify energy sources, diminish ...

The U.S Department of Energy Bioenergy Technologies Office, in partnership with the Algae Foundation and NREL, on July 21 announced the grand champion and top four winning teams of the 2023 - 2025 U.S. DOE AlgaePrize Competition.

Microalgae are becoming increasingly identified as a novel solution for the production of clean electricity. The chapter discusses their twin function as biological solar panels and biochemical factories, being highly capable of ...

Extensive research has delved into utilizing biomass such as wood, land-based, agricultural, and algae sources for bioenergy and biofuel applications. Early identified biomass, or first ...

SEDC Energy (SEDCE) is collaborating with Sulzer Chemtech to deploy its proprietary BioFlux technology at Sarawak"s upcoming Sustainable Aviation Fuel (SAF) pilot plant. The facility will ...

Exploiting different agricultural biomass and exploring various biomass conversion techniques, biorefinery generates bioenergy in a strategic way which eventually fits in a circular bioeconomy.

The experiment was conducted in a randomized block design with 12 treatments, including a control and various biostimulants alone (Rizos®, Onix®, Bioevolution®, Meli-x®, Biomax® Azum) or combined with algae extracts ...

Engineered algae offer a scalable, sustainable, and chemically versatile platform for producing biolubricants tailored to industrial needs. With their high lipid yields, CO? utilization, and engineerable fatty acid profiles, algae present a long-term ...

Extensive research has delved into utilizing biomass such as wood, land-based, agricultural, and algae sources for bioenergy and biofuel applications. Early identified biomass, or first-generation biomass, originated from commodity ...

However, not all these bioenergy technologies are equally efficient or scalable. Finding the best bioenergy technologies for producing sustainable fuels is important in today"s world. This study ...

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High ash content in algal biomass limits its suitability for biofuel production by reducing combustion efficiency and increasing fouling. This study presents a green deashing strategy using nitrilotriacetic acid (NTA) and deionized (DI) ...

This paper aimed to examine how algal biomass can be used to produce biofuels as a sustainable and renewable energy source. There are significant environmental and resource challenges ...

Carbon capture is an important mitigation strategy for the reduction of carbon in the atmosphere. Microalgae can simultaneously capture CO2 and valorize biomass, turning waste streams into ...

Apeiron Bioenergy will work with SEDC to establish UCO logistics, storage, and traceability systems, having been in the biofuel industry for 17 years. The company is headquartered in ...

Answer: Algae Tec, Pond Biofuels Incorporated, LiveFuels, Algae Systems, Sapphire Energy, Solazyme, Diversified Energy Corporation, Algenol, Kai BioEnergy, Algix, Algae Tec, Dao ...

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On the other hand, new keywords have also been added recently in the application of anaerobic biofilm reactors, such as: biohythane, algae, bioenergy, and photo-fermentation, in addition to ...

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