

Hydrothermal Conversion Of Lipid Extracted Microalgae

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Hydrothermal Conversion Of Lipid Extracted

The lipid extraction process employed harsh hydrolysis conditions, using 0.1 g H₂SO₄ per gram of biomass, to help break up the biomass. Because of this, significant work-up was required to neutralize the lipid-extracted algae hydrolysate before the algae residue could be applied to the HTL reaction.

Hydrothermal Conversion of Lipid-Extracted Microalgae

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through the extraction of lipids, which can be transformed into biodiesel, or directly via whole cell conversion using hydrothermal liquefaction (HTL). Both approaches have

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disadvantages, due to the high cost of cultivating microal-gae with sufficient lipid content (>40%), while the whole cell conversion produces low quality oils, which require

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Hydrothermal Conversion Of Lipid Extracted Microalgae

Abstract. Purpose Microalgae have a high potential as a feedstock for the production of biofuels, either indirectly, through the extraction of lipids, which can be transformed into biodiesel, or directly via whole cell conversion using hydrothermal liquefaction (HTL).

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Hydrothermal Conversion Of Lipid Extracted Microalgae

This is one reason why considerable attention has emerged in hydrothermal processing of microalgae for which traditional biofuel production pathways such as lipid extraction and transesterification to biodiesel require a drying step. This step can account to as much as 25% of the energy contained in the microalgae (Xu et al., 2011). While there have been considerable research efforts in the hydrothermal processing of algal biomass, other wet biomass feedstocks are also suitable for ...

Production of biofuels via hydrothermal conversion ...

This work conducted a hydrochloric acid-mediated thermochemical conversion of lipid-extracted *S. obliquus* biomass for LA production. A 45.63 wt% (70.74 mol%) LA yield was obtained from 5 wt% lipid-extracted microalgae with reaction factors of 0.85 M HCl as the catalyst at 180 °C and 10

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min reaction time.

Valorization of thermochemical conversion of lipid ...

The above equation can encompass the extracted biomass lipids conversion to biocrude via hydrothermal liquefaction (HTL) and upgrading processes (Zhu et al., 2013). An established parameter in ...

Development of hydrothermal liquefaction and upgrading

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OSTI.GOV Journal Article: Development of Hydrothermal Liquefaction and Upgrading Technologies for Lipid-Extracted Algae Conversion to Liquid Fuels. Development of Hydrothermal Liquefaction and Upgrading Technologies for Lipid-Extracted Algae Conversion to Liquid Fuels. Full Record;

Development of Hydrothermal Liquefaction and

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Upgrading ...

Hydrothermal liquefaction (HTL) produces more oil from algae than lipid extraction (LE) does because protein and carbohydrates are converted, in part, to oil. Since nitrogen in the algae biomass is incorporated into the HTL oil, and since lipid extracted algae for generating heat and electricity are not co-produced by HTL, there are

Life cycle comparison of hydrothermal liquefaction and ...

Possibilities include the production of biodiesel via lipid extraction, biocrude from hydrothermal liquefaction, and bioethanol or biogas from microbial conversion.

Supercritical water gasification of biocrude oil from low

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The system comprises a pump for pressurizing the algae composition to a predefined pressure and a heater for heating

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the algae composition to a predefined temperature. Lipids in the algae are...

US20100050502A1 - Systems and methods for hydrothermal ...

The extraction of lipids from hydrochar has received just limited prior attention. Heilmann et al. used methyl t-butyl ether (MTBE) to extract both the hydrochars and aqueous phases generated after HTC of three different algae at 200 °C and 2 h. The combined extracts contained most of the fatty

Fatty Acids for Nutraceuticals and Biofuels from ...

By hydrothermal alkaline treatment, α -spodumene was converted into hydroxysodalite; the lithium in α -spodumene was released into the solution and subsequently recovered by precipitation with Na_2CO_3 .

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Lithium Extraction and Hydroxysodalite Zeolite Synthesis

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Algae can be converted into biofuel through two processing routes 1) the moist biomass can be dewatered and the lipids extracted for biodiesel conversion 2) the moist biomass can be converted whole into bio-crude oil through a hydrothermal conversion process.

Illini Algae Project Final Report

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