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Conversion Of  
Lipid Extracted  
Microalgae

# Hydrothermal Conversion Of Lipid Extracted Microalgae

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addition*

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Plant Tissue Lipid  
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University Bioarch  
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*R4B Methods -  
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lipid rafts Digestion,  
Mobilization, and  
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Of God Michio Kaku -  
Listener Questions*

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essential oil ? Soxhlet  
extraction Isolation of  
Cholesterol  
Extracellular electron  
transport (EET):  
opening new windows  
of metabolic  
opportunity for  
microbes Metabolism  
| Cholesterol  
Metabolism Lipids -*



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*Structure Of Lipids -  
Structure Of Fats -  
Lipid Extracted  
Triglycerides,  
Microalgae  
Phospholipids,  
Prostaglandins*

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Fatty Acids, Glycerol,  
and Lipids |

Biochemistry **Lipid  
Extraction by  
Goldfish Apparatus  
Solvent Challenges  
Associated with the  
Storing and  
Extraction of Lipids**

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- Dr David  
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AB - Purpose  
Microalgae have a  
high potential as a  
feedstock for the

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conversion 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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extracted microalgae

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Hydrolysate in the  
Presence of  
Isopropanol and Steel  
Furnace Residues.

Jonathan L. Wagner,  
Julio Perin, Renato  
Sano Coelho, Valeska  
P Ting, Christopher J.  
Chuck, Telma  
Teixeira Franco \* \*

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Corresponding author  
for this work.  
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liquefaction (HTL).  
Both approaches  
have 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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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

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liquefaction (HTL).  
Both approaches  
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content (>40%), while  
the whole cell ...

Dataset for  
"Hydrothermal  
conversion of lipid-  
extracted ...

The lipid extraction



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process employed  
harsh hydrolysis  
conditions, using 0.1  
g H<sub>2</sub>SO<sub>4</sub> 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

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Microalgae  
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with significant  
experience in biofuel  
chemistry and  
processes. The book  
offers an abundance  
of scientific  
experimental methods  
and analytical  
procedures and  
interpretation of

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### Microalgae

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of lipids, which can be  
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biodiesel, or directly  
via whole cell  
conversion using  
hydrothermal  
liquefaction (HTL).

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Hydrothermal conversion of lipid-extracted ...  
Hydrothermal Conversion of Lipid-Extracted Microalgae ... The lipid extraction process employed harsh hydrolysis conditions, using 0.1 g H<sub>2</sub>SO<sub>4</sub> per gram of biomass, to help break up the biomass. Because of this,



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reaction.

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Extracted Microalgae

...

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Hydrolysate in the  
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Furnace Residues. In:  
Waste and Biomass  
Valorization. 2018 ;  
Vol. 9, No. 10. pp.  
1867-1879.

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### Hydrothermal Conversion of Lipid- Extracted Microalgae Microalgae

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conversion using  
hydrothermal  
liquefaction (HTL).  
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Extracted ...

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...  
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Microalgae  
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

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liquefaction (HTL).  
Lipid Extracted  
Hydrothermal  
Conversion of Lipid-  
Extracted Microalgae

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Conversion of Lipid-  
Extracted  
Microalgae... This  
work conducted a  
hydrochloric acid-  
mediated  
thermochemical

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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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Purpose Microalgae have a high potential as a feedstock for the production of biofuels, either indirectly, through the extraction of lipids, which... | Find, read and cite all the research ...

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## Conversion of Lipid- Extracted ...

Abstract. Bench-scale tests were performed for lipid-extracted microalgae (LEA) conversion to liquid fuels via hydrothermal liquefaction (HTL) and upgrading processes. Process simulation and economic analysis for a large-scale LEA HTL and

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upgrading system  
were developed  
based on the best  
available  
experimental results.

Development of  
hydrothermal  
liquefaction and  
upgrading ...

This work conducted  
a hydrochloric acid-  
mediated  
thermochemical

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Conversion of lipid-  
extracted *S. obliquus*  
biomass for LA  
production. A 45.63  
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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 min reaction  
time.

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The lipid extraction process employed harsh hydrolysis conditions, using 0.1 g H<sub>2</sub>SO<sub>4</sub> per gram of biomass, to help break up the biomass. Because of this, significant work-up was required to neutralize the lipid-

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extraction of algae  
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