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Of Algae

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The Rheological Characterization Of Algae

This paper is
concerned with the
rheology of algae
suspensions relevant
to algae biofuel
processing for a range
of concentrations up to
15 vol. % using mostly
a piezoaxial vibrator
(PAV) rheometer as a

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method of measuring
rheological properties.

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**The rheological
characterization of
algae suspensions
for ...**

This paper is
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to algae biofuel
processing for a range
of concentrations up to
15 vol. % using mostly
a piezoaxial vibrator
(PAV) rheometer...

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**characterization of
algae ...**

The rheological
characterization of
algae suspensions for
the production of
biofuels Adesanya,
Victoria O.; Vadillo,
Damien C.; Mackley,
Malcolm R. 2012-07-01
00:00:00 This paper is
concerned with the
rheology of algae
suspensions relevant

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Characterization
Of Algae
Suspensions For

to algae biofuel processing for a range of concentrations up to 15 vol. % using mostly a piezoaxial vibrator (PAV) rheometer as a method of measuring rheological properties. Linear viscoelastic (LVE) measurements of a *Scenedesmus obliquus* [culture ...

The rheological characterization of algae suspensions for ...

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Of Algae

Suspensions For

algae biofuel production process is the rheological characterization of algae suspensions. The relevance of rheology to algae production is targeted to enhance either the effective engineering design of cultivation bioreactors to optimize growth conditions (e.g., levels

**The rheological
characterization of
algae suspensions**

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for ...

Algae can be either unicellular or multicellular organisms. Algae lack a well-defined body, so, structures like roots, stems or leaves are absent. Algae are found where there is adequate moisture. Reproduction in algae occurs in both asexual and sexual forms. Asexual reproduction occurs by spore formation.

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**Algae - Definition,
Characteristics,
Types and Examples**

Algae is a group of chlorophyll containing thalloid plants which bear unicellular or multicellular sex organs and the sex organs are NOT protected in the sterile jacket cells. An undifferentiated plant body is known as 'thallus'. In thalloid plants, there is no

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Characterization
Of Algae
differentiation of plant
body into true roots,
stem and leaves.

General
Suspensions For
Characteristics of
Algae with Key
Points | Easy ...

CiteSeerX - Document
Details (Isaac Council,
Lee Giles, Pradeep
Teregowda):

rheological
characterization of
algae suspensions for
the production of
biofuels

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**Published by the The
Society of Rheology**

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Rheological properties of two algal strains suspension were reported. Algal suspensions displayed a shear thinning non-Newtonian behavior. Smaller algal cells caused higher effective viscosity of microalgae suspensions. Cell charge played a

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Suspensions For
**negligible role in
affecting effective
viscosity.**

**Influence of cell
properties on
rheological ...**

The rheological
characterization of the
starting
nanodispersions has
been recently
published . Here, we
consider the in situ
gelation of the alginate-
based nanodispersions
and the difference in

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Rheological
Characterization
Of Algae
Suspensions For
the mechanical
response, along with
the variation of oil,
alginate, and calcium
content.

Rheological Characterization of Hydrogels from Alginate ...

The present study
focuses on the
analytical and
rheological
characterization of
extracellular polymeric
substances, produced

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Suspensions For

by micro-algae *D. salina*. Despite of β -carotene, glycerol and other metabolites, EPSs make *Dunaliella* more promising candidate to play an important role in its biotechnological and industrial application as the resource of biosurfactants and/or bioemulsifiers.

Characterization of extracellular polymeric

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Rheological
substances ...

Rheological
Characterization

Characterization

Annika Björn, Paula

Segura de La Monja,

Anna Karlsson, Jörgen

Ejlertsson and Bo H.

Svensson Department

of Thematic Studies,

Water and

Environmental Studies,

Linköping University,

Sweden 1. Introduction

The biogas process has

long been a part of our

biotechnical solutions

for the handling of

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sewage sludge and
waste.

**Rheological
Characterization -
IntechOpen**

Chemical

characterization and
antioxidant activity of
sulfated polysaccharide
from the red seaweed

Gracilaria birdiae

Bartolomeu W.S.

Souzaa,c, Miguel A.

Cerqueiraa, Ana I.

Bourbona, Ana C.

Pinheiroa, Joana T.

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Martinsa, José A.
Teixeiraa, Manuel A.
Coimbrab, António A.
Vicentea,* aIBB e
Institute for
Biotechnology and
Bioengineering, Centre
of Biological
Engineering,
Universidade do Minho
...

**Chemical
characterization and
antioxidant activity
of ...**

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characterization. The shear stress was measured with a sample of 3.6 mL of the algae (without LBG, in 0.3 and 0.5% LBG solution) after exposure in the shear cylinders. A rheometer (type Physica MCR 301, Anton Paar) was used to measure the exact shear stress applied in the shear cylinders. The measurements were done at 4 °C.

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Characterization

**Effects of shear
stress on the
microalgae
Chaetoceros
muelleri**

Oil Algae
Suspensions For

Suspensions of three algae species, Tetraselmis chuii, Chlorella sp. and Phaeodactylum tricornutum, were sheared in a rotational rheometer in order to characterise their rheology and examine the effects of cell concentration, motility

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and morphology. The volume fraction ranged from 0.05 to 0.2, and the shear rate from 20 to 200 s^{-1} .

Effects of cell motility and morphology on the rheology of ...

Large, thin sheets of sea lettuce often totally obscure the muddy bottom in sheltered bay and estuary habitats.

Structure: Green algae

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are organisms with a variety of body forms including single cells, filaments, colonies, and thalli (singular - thallus, multicellular forms that have a leaf-like shape).

BSCI 124 Lecture Notes -- Algae

Rheological
Characterization :
Rheological
characterization was
performed on all
hydrogel samples

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using a Malvern Kinexus Pro+ rotational rheometer (Worcestershire, UK).

The test geometry was a 50 mm diameter plate, with a 1 mm zero gap and temperature was maintained at 25 °C.

Robotic Extrusion of Algae-Laden Hydrogels for Large-Scale ...

N. gaditana is rich in saturated fatty acids,

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mainly palmitic acid (5.1 g/100 g), while the cells of *S. platensis* and *C. vulgaris* algae are abundant in GLA (1.9 g/100 g) and ALA (2.8 g/100 g) acids, respectively. *P. cruentum* differs from other algae, because it contains a large amount of AA (3.7 g/100 g).

Chemical Characterization of Six Microalgae with

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Rheological
Potential ...

Rheological and
Characterization

Chemical

Characterization of

Biobinders from For

Different Biomass

Resources. The

increasing costs and

strong worldwide

demand for petroleum

and the adverse

environmental impact

of the consumption of

nonrenewable energy

sources have

encouraged the

development of

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alternative sources of
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