

## The Rheological Characterization Of Algae Suspensions For

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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 method of measuring rheological properties.

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### (PDF) The rheological 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 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 ...

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 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.

### 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 differentiation of plant body into true roots, stem and leaves.

### General 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

### CiteSeerX — Published by the The Society of Rheology ...

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 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 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 by micro-algae *D. salina*. Despite of  $\beta$ -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 substances ...

Rheological 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 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. Cerqueira, Ana I. Bourbona, Ana C. Pinheiroa, Joana T. Martinsa, José A. Teixeira, Manuel A. Coimbra, António A. Vicentea,\* alBB e Institute for Biotechnology and Bioengineering, Centre of Biological Engineering, Universidade do Minho ...

### Chemical characterization and antioxidant activity of ...

Rheological 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.

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

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 and morphology. The volume fraction ranged from 0.05 to 0.2, and the shear rate from 20 to 200 s<sup>-1</sup>.

### 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 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 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, 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 Potential ...

Rheological and Chemical Characterization of Biobinders from 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 alternative sources of renewable energy.