

## The Rheological Characterization Of Algae Suspensions For

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### The Rheological Characterization Of Algae

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 ...

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 can be multicellular or unicellular. Unicellular algae occur most frequently in water, especially in plankton. Phytoplankton is the population of free-floating microorganisms composed primarily of unicellular algae. In addition, algae may occur in moist soil or on the surface of moist rocks and wood.

### General Characteristics of Algae - CliffsNotes

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 rheological properties and stability characteristics of biochar-algae-water slurry fuels were experimentally investigated. Algae *Chlorella vulgaris* in dry powder form was mixed with a pine sawdust biochar with algae content varying from 0 to 100wt%. Biochar-algae-water slurry fuels were then prepared by dispersing the mixtures in deionised water.

### An Experimental Study of the Rheological Properties and ...

Mucilage's rheological properties are mainly a function of its concentration, pH, ionic strength, frequency and temperature . The rheological behavior of Na-alginate dispersions exhibits both a Newtonian region and a shear-thinning region.

### Study of nopal mucilage and marine brown algae extract as ...

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

Wileman et al. (2012) analyzed the rheological properties of three different microalgae slurries (*Nannochloropsis* sp., *Chlorella vulgaris*, *Phaeodactylum tricornutum*) and also showed an increase of  $k$  with increasing biomass concentration. The flow behavior index is  $n < 1$  for all samples, which represents a pseudoplastic behavior.

### Correlation between viscosity, temperature and total solid ...

Rheological characterisation of polysaccharides extracted from brown seaweeds. Journal of the Science of Food and Agriculture 2007, 87 (9) , 1630-1638. DOI: 10.1002/jsfa.2829. Seong-Ryul Yang, Oh-Jin Kwon, Dae-Hyun Kim, Jong-Shin Park. Characterization of the polyurethane foam using alginic acid as a polyol.

### Small-Angle X-ray Scattering and Rheological ...

2.7. Rheological characterization. Rheological measurements were carried out using an ARES (TA Instruments) controlled strain rheometer equipped with a 40 mm Teflon plate-and-plate geometry and a Peltier temperature controller. The gap was fixed at 1 mm. Samples were covered with paraffin oil to prevent evaporation during measurements.

### Rheological characterization of microfibrillated cellulose ...

"Alga is a term that describes a large and incredibly diverse group of eukaryotic, photosynthetic lifeforms. These organisms do not share a common ancestor and hence, are not related to each other (polyphyletic)." Multicellular examples of algae include the giant kelp and brown algae.

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

Request PDF | Rheological characterisation of polysaccharides extracted from brown seaweeds | Hydrocolloids from seaweeds have interesting functional properties, such as thickening or gelling ability.

### Rheological characterisation of polysaccharides extracted ...

To achieve this, an accurate knowledge of the rheological properties of algae slurries as a function of cell concentration is necessary. This study measures the rheological properties of eight different concentrations of *Nannochloris* sp. in ASP-m nutrient media ranging from 0.5 to 80 kg dry biomass/m<sup>3</sup>.

### Rheological Study of Algae Slurries for Minimizing Pumping ...

Alginate solution underwent rheological characterization as a function of biopolymer concentration. Flow testing was conducted to obtain viscosity and shear thinning behavior was observed, as is typical of polymer solutions.