## عنوان مقاله:

A review on hydrothermal liquefaction of microalgae in continuous reactors and effective parameters on process

## محل انتشار:

ششمین همایش بین المللی علوم و تکنولوژی با رویکرد توسعه پایدار (سال: 1399)

تعداد صفحات اصل مقاله: 10

## نویسندگان:

Haleh Baghernavehsi - *Caspian Faculty of Engineering College of Engineering, University of Tehran, Rezvanshar, Guilan, Iran*

Ahmad Hallajisani - *Biofuel Research Laboratory, Caspian Faculty of Engineering, College of Engineering, University of Tehran,Rezvanshar, Guilan, Iran*

## خلاصه مقاله:

Due to the sharp increase in energy needs and environmental pollution, the use of renewable energy is recommended. The process of hydrothermal liquefaction (HTL) is considered as a special process due to the production of renewable, clean and more efficient energy that is equal to crude oil. The number of continuous reactors that studied for this process is little and has advantages and drawbacks. In this paper, for the first time, all HTLA (hydrothermal liquefaction algae) continuous reactors are investigated. All factors affecting performance such as temperature, pressure, nutrients, hydro treating, algae concentration and economic perspectives be analyzed in special section and ideas and innovations to improve the situation be stated at the end of each section.

## کلمات کلیدی:

Hydrothermal liquefaction algae; Temperature; Resident time; Economic; Continuous reactor