

## Accepted Manuscript

Comprehensive computational model for combining fluid hydrodynamics, light transport and biomass growth in a Taylor vortex algal photobioreactor: Lagrangian approach

Xi Gao, Bo Kong, R. Dennis Vigil

PII: S0960-8524(16)31494-8

DOI: <http://dx.doi.org/10.1016/j.biortech.2016.10.080>

Reference: BITE 17235

To appear in: *Bioresource Technology*

Received Date: 12 September 2016

Revised Date: 24 October 2016

Accepted Date: 25 October 2016

Please cite this article as: Gao, X., Kong, B., Dennis Vigil, R., Comprehensive computational model for combining fluid hydrodynamics, light transport and biomass growth in a Taylor vortex algal photobioreactor: Lagrangian approach, *Bioresource Technology* (2016), doi: <http://dx.doi.org/10.1016/j.biortech.2016.10.080>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Comprehensive computational model for combining fluid hydrodynamics, light transport and biomass growth in a Taylor vortex algal photobioreactor: Lagrangian approach**

**Xi Gao, Bo Kong, R. Dennis Vigil\***

*Department of Chemical & Biological Engineering, Iowa State University, Ames, IA 50011,*

*United States*

*\*Correspondence to: E-mail: vigil@iastate.edu (R. Dennis Vigil).*

Tel.: +1 515 294 6438

Download English Version:

<https://daneshyari.com/en/article/4997873>

Download Persian Version:

<https://daneshyari.com/article/4997873>

[Daneshyari.com](https://daneshyari.com)