

Accepted Manuscript

Title: Flow field and homogenization time assessment in continuously-fed stirred tanks

Author: Antonio Busciglio Giuseppina Montante Alessandro Paglianti



PII: S0263-8762(15)00223-3
DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2015.06.017>
Reference: CHERD 1928

To appear in:

Received date: 25-3-2015
Revised date: 30-5-2015
Accepted date: 9-6-2015

Please cite this article as: Busciglio, A., Montante, G., Paglianti, A., Flow field and homogenization time assessment in continuously-fed stirred tanks, *Chemical Engineering Research and Design* (2015), <http://dx.doi.org/10.1016/j.cherd.2015.06.017>

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.

- The effect of continuous feed on mechanically stirred tanks was assessed.
- PIV and PLIF were used for flow field, turbulence and mixing time measurement
- The inlet jet stream may significantly change the general flow pattern in the vessel
- Homogenization time may be reduced by the jet stream, with negligible power input.

Keywords

Mixing – Stirred tanks – PIV – PLIF – Continuous inlet – Mixing time

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/7007265>

Download Persian Version:

<https://daneshyari.com/article/7007265>

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