## Accepted Manuscript

Title: Process Intensification of Copper Chromite (CuCr<sub>2</sub>O<sub>4</sub>) Nanoparticle Production Using Continuous Flow Microreactor

Author: Sumanth Appalakutti Shirish Sonawane Bharat A. Bhanvase Vikas Mittal Muthupandian Ashokkumar

PII: S0255-2701(15)00002-1

DOI: http://dx.doi.org/doi:10.1016/j.cep.2014.12.012

Reference: CEP 6524

To appear in: Chemical Engineering and Processing

Received date: 26-3-2014 Revised date: 22-12-2014 Accepted date: 31-12-2014

Please cite this article as: Sumanth Appalakutti, Shirish Sonawane, Bharat A.Bhanvase, Vikas Mittal, Muthupandian Ashokkumar, Process Intensification of Copper Chromite (CuCr2O4) Nanoparticle Production Using Continuous Flow Microreactor, Chemical Engineering and Processing http://dx.doi.org/10.1016/j.cep.2014.12.012

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.



### ACCEPTED MANUSCRIPT

# Process Intensification of Copper Chromite (CuCr<sub>2</sub>O<sub>4</sub>) Nanoparticle Production Using Continuous Flow Microreactor

Sumanth Appalakutti<sup>a</sup>, Shirish Sonawane\*<sup>a</sup>, Bharat A. Bhanvase<sup>b</sup>, Vikas Mittal<sup>c</sup>, Muthupandian Ashokkumar<sup>d</sup>

<sup>a</sup> Chemical Engineering Department, National Institute of Technology, Warangal, AP, India 506004

<sup>b</sup>Chemical Engineering Department, Laxminarayan Institute of Technology, Nagpur, MS, India

<sup>c</sup> Department of Chemical Engineering, The Petroleum Institute, Abu Dhabi, UAE.

<sup>d</sup> School of Chemistry University of Melbourne, VIC 3010, Australia

#### Corresponding Author:

Dr. Shirish H. Sonawane: E-Mail: shirishsonawane@reddifmail.com Tel: 0870-2462626

#### Highlights

- Continuous flow microreactor for synthesis of copper chromite nanoparticles at low temperature.
- Lesser particle size of copper chromite nanoparticles compared to batch process.
- Effect of different parameters on particle size of copper chromite investigated in microreactor.

#### Download English Version:

# https://daneshyari.com/en/article/7090016

Download Persian Version:

https://daneshyari.com/article/7090016

Daneshyari.com