

Accepted Manuscript

Single Phase Microreactor for the continuous, high-temperature synthesis of < 4nm Superparamagnetic Iron Oxide Nanoparticles

Laura Uson, Manuel Arruebo, Victor Sebastian, Jesús Santamaria

PII: S1385-8947(17)32137-X
DOI: <https://doi.org/10.1016/j.cej.2017.12.024>
Reference: CEJ 18185

To appear in: *Chemical Engineering Journal*



Please cite this article as: L. Uson, M. Arruebo, V. Sebastian, J. Santamaria, Single Phase Microreactor for the continuous, high-temperature synthesis of < 4nm Superparamagnetic Iron Oxide Nanoparticles, *Chemical Engineering Journal* (2017), doi: <https://doi.org/10.1016/j.cej.2017.12.024>

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.

Single Phase Microreactor for the continuous, high-temperature synthesis of < 4nm Superparamagnetic Iron Oxide Nanoparticles

Laura Uson,^{a,b} Manuel Arruebo^{a,b}, Victor Sebastian^{a,b*}, and Jesús Santamaria^{a,b}*

^aInstitute of Nanoscience of Aragon (INA) and Department of Chemical, Engineering and Environmental Technology, University of Zaragoza, C/ Mariano Esquillor, s/n, I+D+i Building, 50018, Zaragoza, Spain.; Tel: +34 876555441; Fax: +34 976 761879.

*E-mail: victorse@unizar.es; arruebom@unizar.es

^bCIBER de Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Centro de Investigación Biomédica en Red. C/ Monforte de Lemos 3-5, Pabellón 11, 28029 Madrid.

KEYWORDS: Microchannel emulsification, hybrid nanomaterials, microfluidics, bio-nanomaterials, continuous production

ABSTRACT.

The reproducibility of key nanomaterial features is essential in nanomedicine applications where small changes of physical characteristics often lead to a very different behavior. In this

Download English Version:

<https://daneshyari.com/en/article/6579952>

Download Persian Version:

<https://daneshyari.com/article/6579952>

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