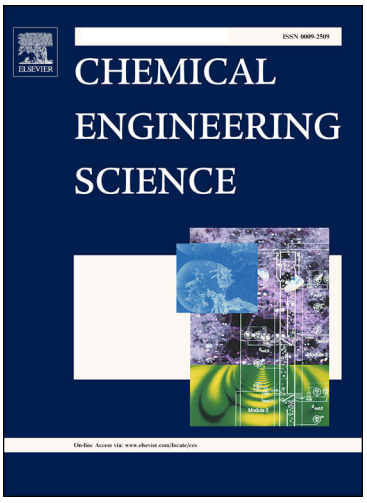

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PII: S0009-2509(18)30474-3
DOI: https://doi.org/10.1016/j.ces.2018.07.007
Reference: CES 14361

To appear in: *Chemical Engineering Science*

Received Date: 13 April 2018
Revised Date: 25 June 2018
Accepted Date: 4 July 2018

Please cite this article as: P. Stolzenburg, T. Lorenz, A. Dietzel, G. Garnweitner, Microfluidic synthesis of metal oxide nanoparticles via the nonaqueous method, *Chemical Engineering Science* (2018), doi: https://doi.org/10.1016/j.ces.2018.07.007

Microfluidic synthesis of metal oxide nanoparticles via the nonaqueous method

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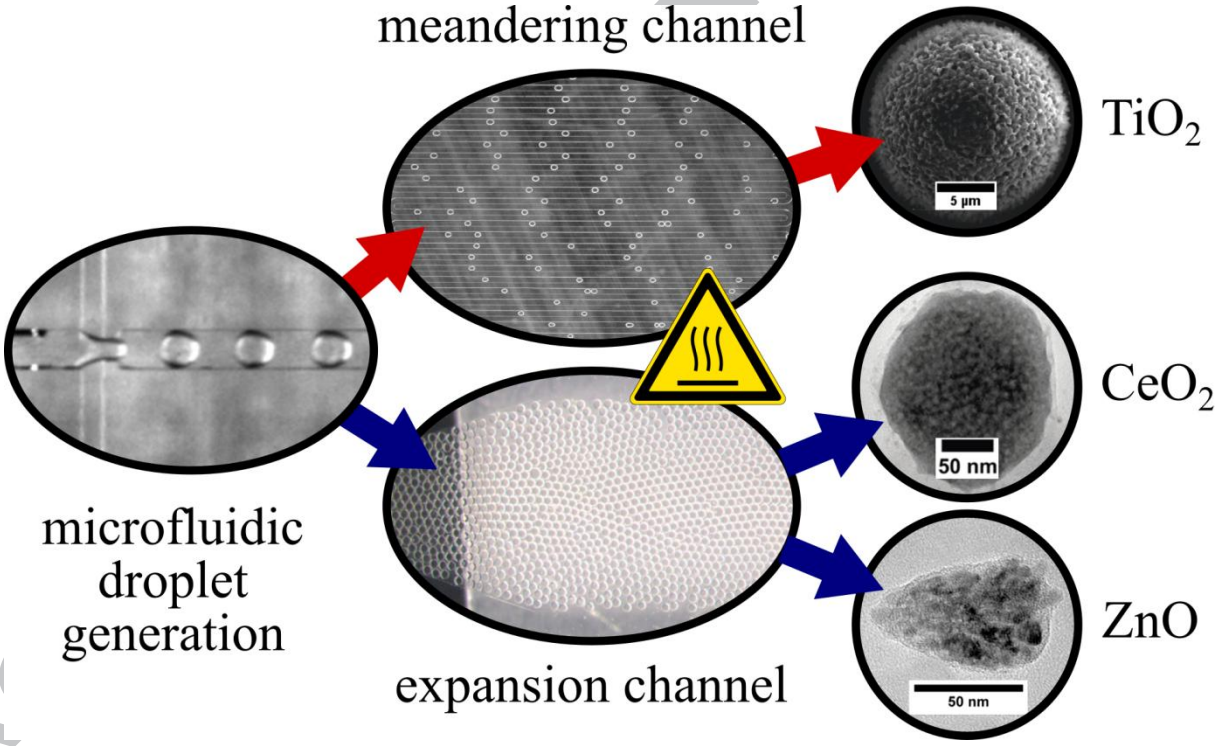
Graphical abstract



Abstract

Microfluidic synthesis allows for a good control of the particle formation conditions while minimizing the consumption of material. In this study, we exploited these advantages for the nonaqueous synthesis of TiO_2, ZnO and CeO_2 nanoparticles in a closed micro droplet reactor which resulted in well-defined particle structures. Monodisperse droplets are generated in microfluidic flow-focusing area and