

Accepted Manuscript

Potential applications of magnetic nanoparticles within separation in the petroleum industry

Galina Simonsen, Mikael Strand, Gisle Øye



PII: S0920-4105(18)30154-2

DOI: [10.1016/j.petrol.2018.02.048](https://doi.org/10.1016/j.petrol.2018.02.048)

Reference: PETROL 4718

To appear in: *Journal of Petroleum Science and Engineering*

Received Date: 12 December 2017

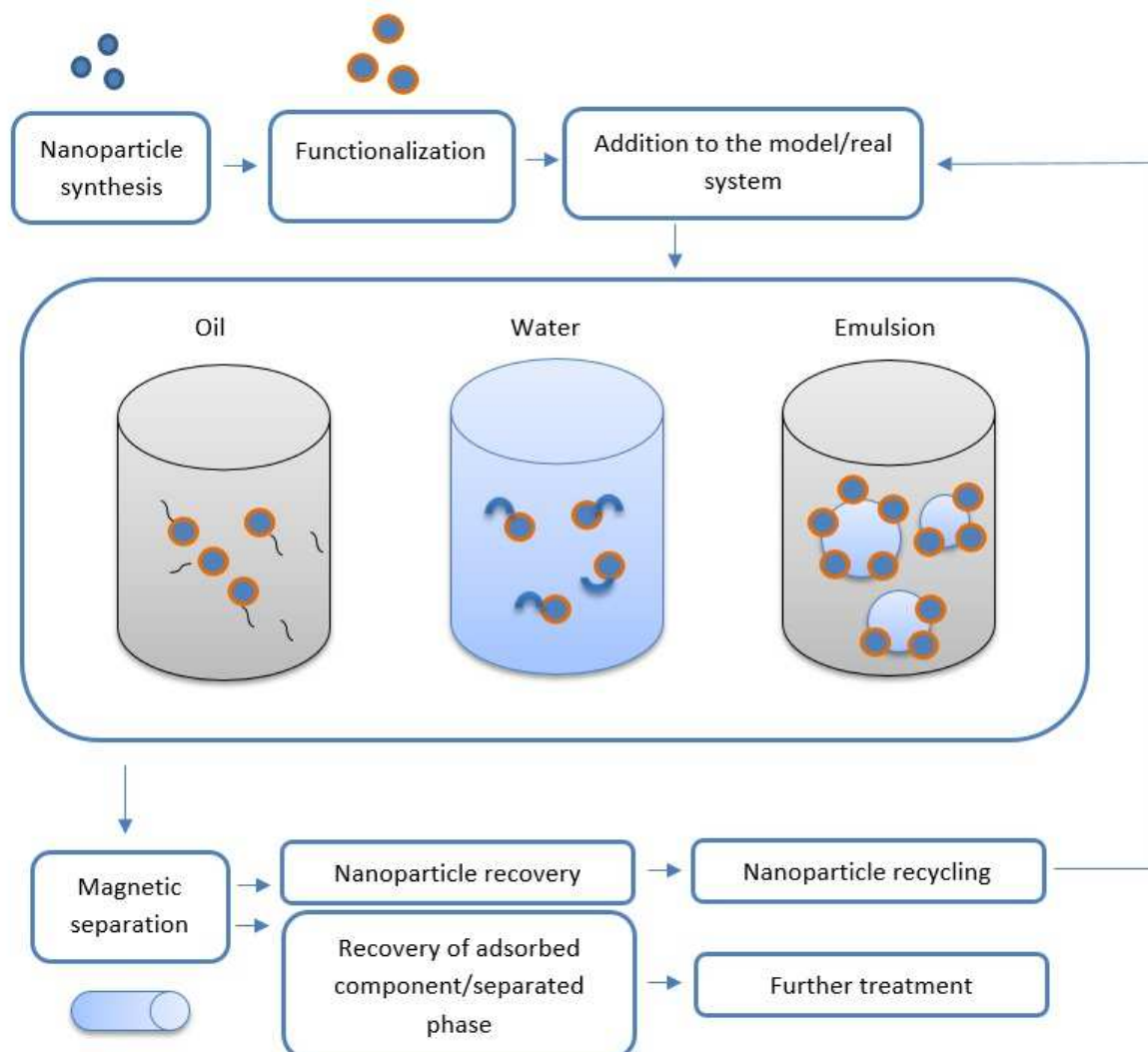
Revised Date: 15 February 2018

Accepted Date: 19 February 2018

Please cite this article as: Simonsen, G., Strand, M., Øye, G., Potential applications of magnetic nanoparticles within separation in the petroleum industry, *Journal of Petroleum Science and Engineering* (2018), doi: 10.1016/j.petrol.2018.02.048.

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.

Magnetically driven separation is one of the major potential application areas. The nanoparticles are dispersed in a medium. Then, the targeted chemical, ion, surface, or functional group is adsorbed onto the nanoparticle surface. Finally, a magnetic field is introduced, and the nanoparticles, with the adsorbed material, are removed from the medium.



Download English Version:

<https://daneshyari.com/en/article/8125173>

Download Persian Version:

<https://daneshyari.com/article/8125173>

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