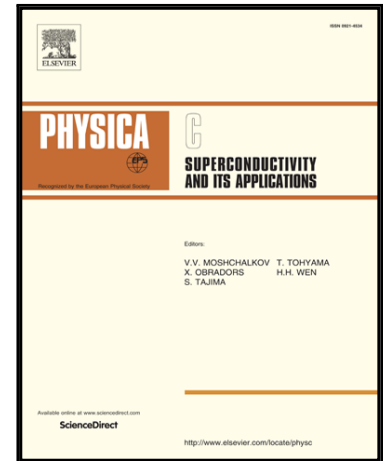


## Accepted Manuscript

Optimal size for heating efficiency of superparamagnetic dextran coated magnetite nanoparticles for application in magnetic fluid hyperthermia

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PII: S0921-4534(17)30320-9  
DOI: [10.1016/j.physc.2018.02.060](https://doi.org/10.1016/j.physc.2018.02.060)  
Reference: PHYSC 1253317



To appear in: *Physica C: Superconductivity and its applications*

Received date: 14 July 2017  
Accepted date: 28 February 2018

Please cite this article as: Zhila Shaterabadi , Gholamreza Nabiyouni , Meysam Soleymani , Optimal size for heating efficiency of superparamagnetic dextran coated magnetite nanoparticles for application in magnetic fluid hyperthermia, *Physica C: Superconductivity and its applications* (2018), doi: [10.1016/j.physc.2018.02.060](https://doi.org/10.1016/j.physc.2018.02.060)

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**Highlights**

- Heating efficiency of superparamagnetic NPs strongly depends on their size.
- Optimization of particle size significantly increases the specific absorption rate of MNPs.
- MNPs with average size of 19 nm have an excellent potential ability in heat generation for application in MFH.

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