

Accepted Manuscript

Predicting Size-Dependent Heating Efficiency of Magnetic Nanoparticles from Experiment and Stochastic Néel-Brown Langevin Simulation

Ulrich M. Engelmann, Carolyn Shasha, Eric Teeman, Ioana Slabu, Kannan M. Krishnan

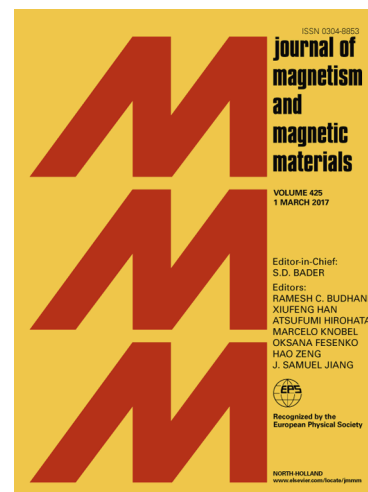
PII: S0304-8853(18)31919-X
DOI: <https://doi.org/10.1016/j.jmmm.2018.09.041>
Reference: MAGMA 64323

To appear in: *Journal of Magnetism and Magnetic Materials*

Received Date: 21 June 2018
Revised Date: 8 September 2018
Accepted Date: 9 September 2018

Please cite this article as: U.M. Engelmann, C. Shasha, E. Teeman, I. Slabu, K.M. Krishnan, Predicting Size-Dependent Heating Efficiency of Magnetic Nanoparticles from Experiment and Stochastic Néel-Brown Langevin Simulation, *Journal of Magnetism and Magnetic Materials* (2018), doi: <https://doi.org/10.1016/j.jmmm.2018.09.041>

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.



Predicting Size-Dependent Heating Efficiency of Magnetic Nanoparticles from Experiment and Stochastic Néel-Brown Langevin Simulation

Ulrich M. Engelmann^{a,b*}, Carolyn Shasha^c, Eric Teeman^b, Ioana Slabu^a, and Kannan M. Krishnan^{b,c*}

^aApplied Medical Engineering, Helmholtz Institute, Medical Faculty, RWTH Aachen University, 52074 Aachen, Germany

^bDepartment of Materials Science and Engineering, University of Washington, Seattle, WA 98195, USA

^cDepartment of Physics, University of Washington, Seattle, WA 98195, USA

*Corresponding authors:

Ulrich M. Engelmann

Applied Medical Engineering (Helmholtz-Institute)

Pauwelsstrasse 20

52072 Aachen

Germany

E-mail: engelmann@ame.rwth-aachen.de

Kannan M. Krishnan

Department of Materials Science and Engineering

323 Roberts Hall

Box 352120

University of Washington

Seattle, WA, 98195

USA

E-mail: kannanmk@uw.edu

Download English Version:

<https://daneshyari.com/en/article/11026352>

Download Persian Version:

<https://daneshyari.com/article/11026352>

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