## Accepted Manuscript

Macromolecular Nanotechnology

Synthesis of highly magnetostrictive nanostructures and their application in a polymer-based magnetoelectric sensing device

R. Gonçalves, A. Larrea, T. Zheng, M.J. Higgins, V. Sebastian, S. Lanceros-Mendez, P. Martins

PII: S0014-3057(16)30560-2

DOI: http://dx.doi.org/10.1016/j.eurpolymj.2016.09.055

Reference: EPJ 7529

To appear in: European Polymer Journal

Received Date: 8 June 2016

Revised Date: 19 September 2016 Accepted Date: 28 September 2016



Please cite this article as: Gonçalves, R., Larrea, A., Zheng, T., Higgins, M.J., Sebastian, V., Lanceros-Mendez, S., Martins, P., Synthesis of highly magnetostrictive nanostructures and their application in a polymer-based magnetoelectric sensing device, *European Polymer Journal* (2016), doi: http://dx.doi.org/10.1016/j.eurpolymj. 2016.09.055

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.

# ACCEPTED MANUSCRIPT

# Synthesis of highly magnetostrictive nanostructures and their application in a polymer-based magnetoelectric sensing device

R. Gonçalves<sup>1,2‡</sup>, A. Larrea<sup>3‡</sup>, T. Zheng<sup>4</sup>, M. J. Higgins<sup>4</sup>, V. Sebastian<sup>3,5</sup>\*, S. Lanceros-Mendez<sup>1,6,7</sup>, P. Martins<sup>1\*</sup>

<sup>2</sup> Centro/Departamento de Química, Universidade do Minho, 4710-057, Braga, Portugal

<sup>&</sup>lt;sup>1</sup> Centro/Departamento de Física, Universidade do Minho, 4710-057, Braga, Portugal

<sup>&</sup>lt;sup>3</sup> Department of Chemical Engineering. Aragon INA, University of Zaragoza, Campus Río Ebro-Edificio I+D, C/ Poeta Mariano Esquillor S/N, 50018-Zaragoza, Spain

<sup>&</sup>lt;sup>4</sup> ARC Centre of Excellence for Electromaterials Science, Intelligent Polymer Research Institute/AIIM Faculty, Wollongong, Australia

<sup>&</sup>lt;sup>5</sup> CIBER de Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), C/ Monforte de Lemos 3-5, Pabellón 11, 28029 Madrid

<sup>&</sup>lt;sup>6</sup> BCMaterials, Parque Científico y Tecnológico de Bizkaia, 48160-Derio, Spain

<sup>&</sup>lt;sup>7</sup> IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

<sup>‡</sup>equal contribution

<sup>\*</sup>pmartins@fisica.uminho.pt

### Download English Version:

# https://daneshyari.com/en/article/5159715

Download Persian Version:

https://daneshyari.com/article/5159715

<u>Daneshyari.com</u>