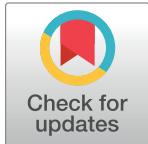


CORRECTION

Correction: Modeling of core-shell magneto-electric nanoparticles for biomedical applications: Effect of composition, dimension, and magnetic field features on magnetoelectric response

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The images for Figs 1, 2, 4 and 5 are incorrectly switched. The image that appears as Fig 1 should be Fig 4, the image that appears as Fig 2 should be Fig 5, the image that appears as Fig 4 should be Fig 2 and the image that appears as Fig 5 should be Fig 1. The figure captions appear in the correct order.



OPEN ACCESS

Citation: Fiocchi S, Chiaramello E, Marrella A, Suarato G, Bonato M, Parazzini M, et al. (2024) Correction: Modeling of core-shell magneto-electric nanoparticles for biomedical applications: Effect of composition, dimension, and magnetic field features on magnetoelectric response. PLoS ONE 19(11): e0314414. <https://doi.org/10.1371/journal.pone.0314414>

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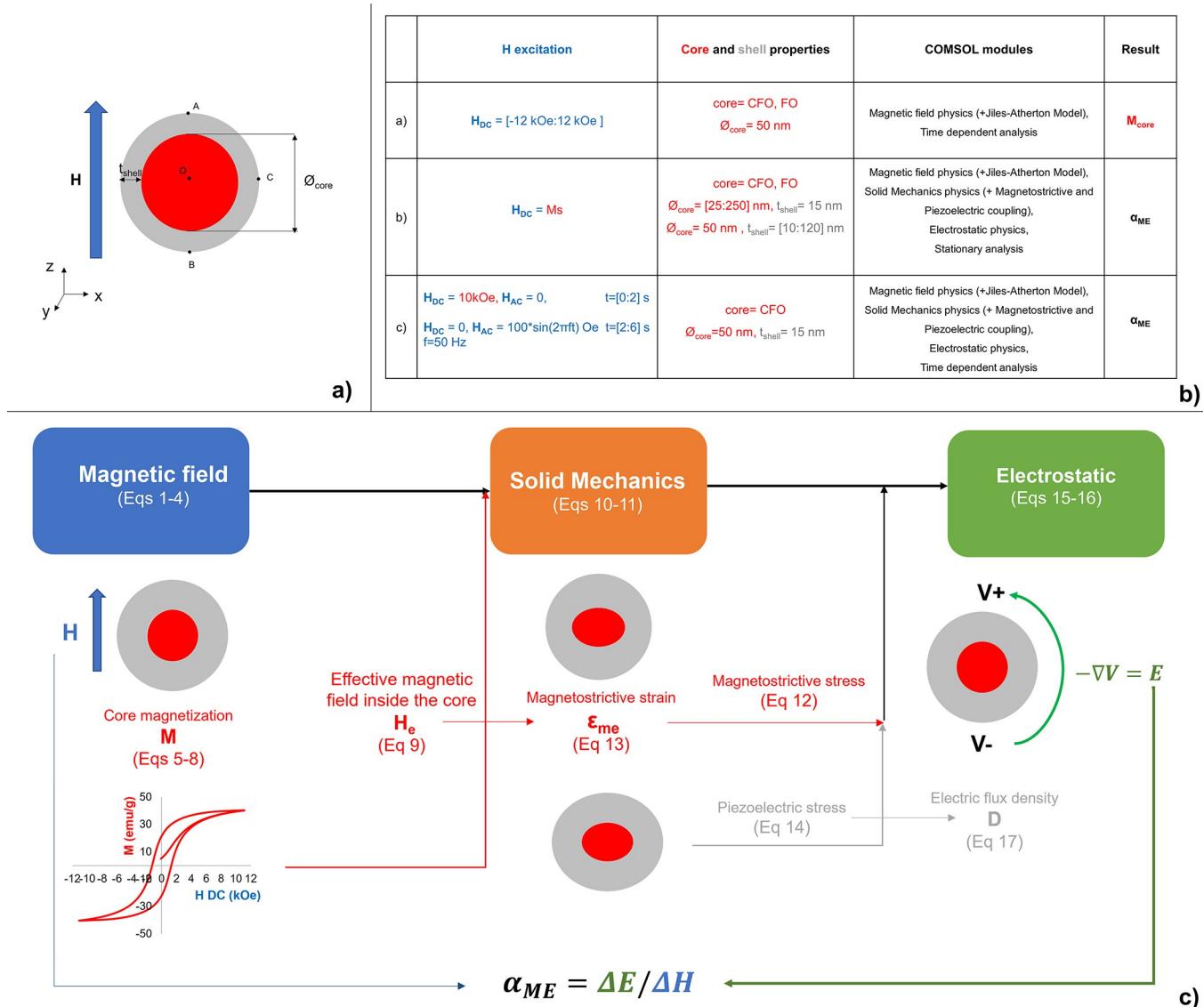


Fig 1. MENP computational modeling. Schematic representation of: a) the geometrical parameters of a generic core-shell MENP; b) the simulation settings in the three different analyses performed; c) the computational study workflow.

<https://doi.org/10.1371/journal.pone.0314414.g001>

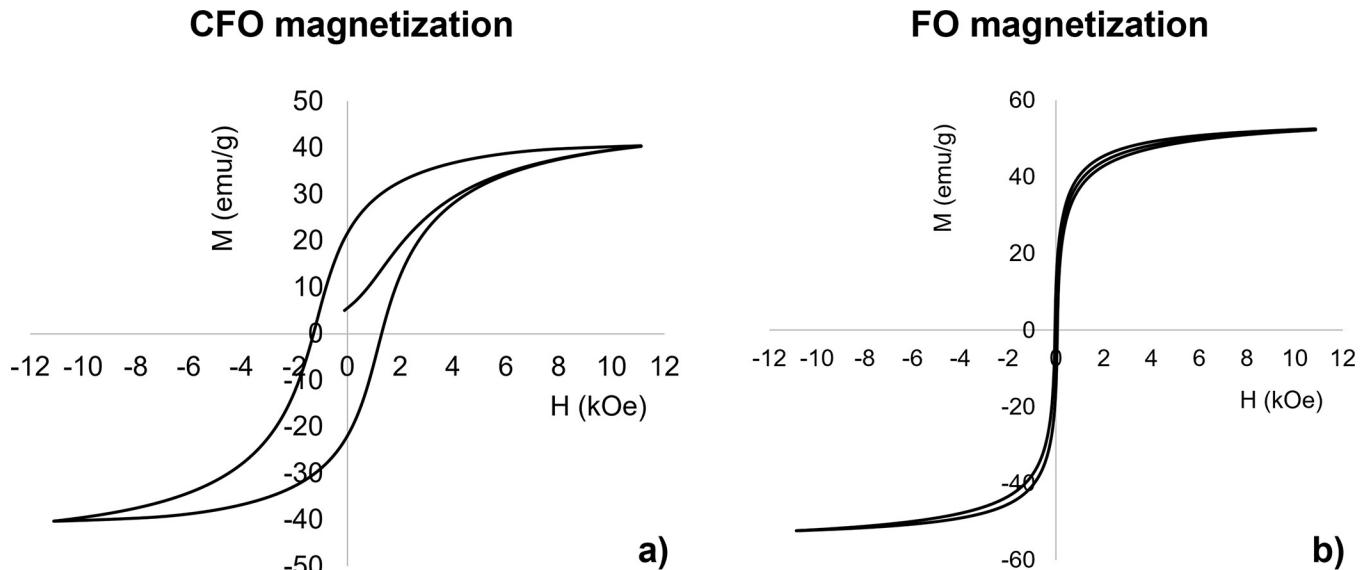


Fig 2. MENPs cores magnetization behavior. DC magnetization loops of a) CFO and b) FO core 50 nm nanoparticles.

<https://doi.org/10.1371/journal.pone.0314414.g002>

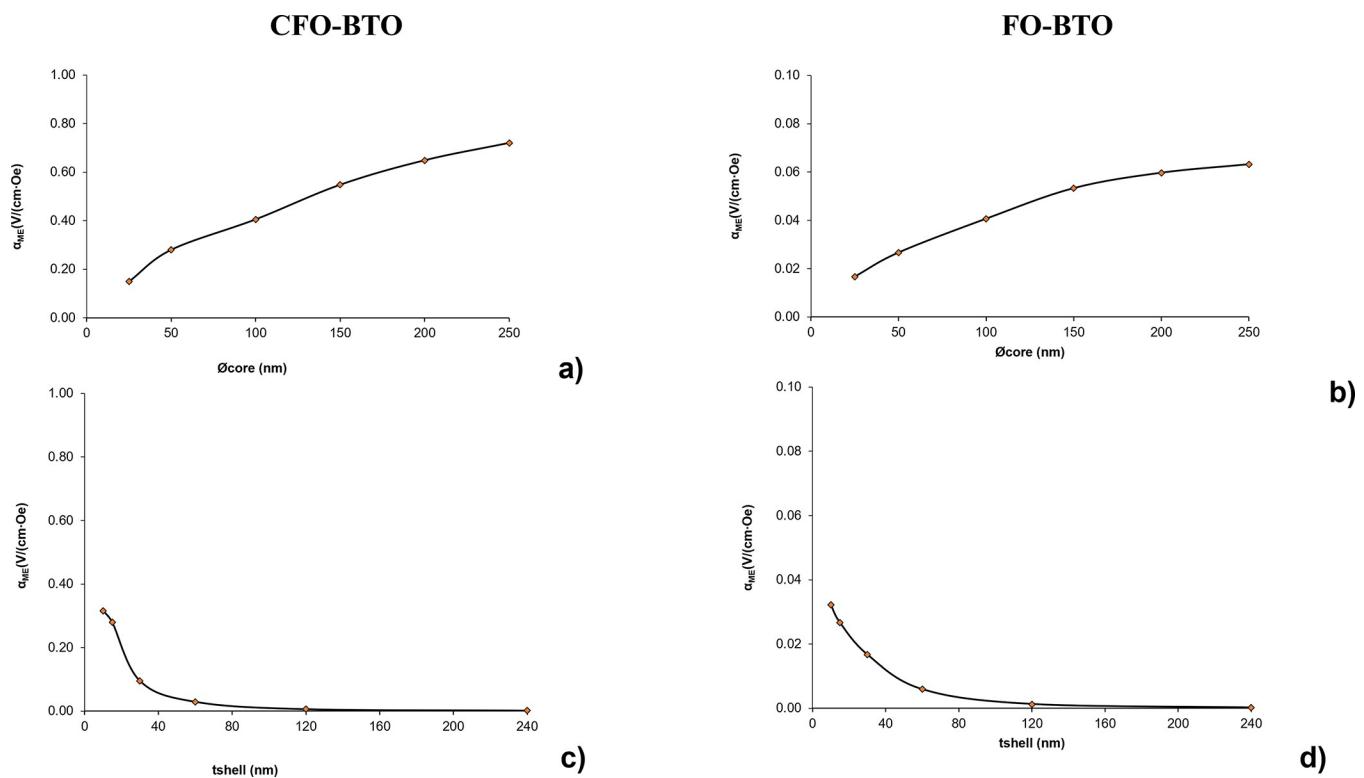


Fig 4. Effect of core and shell size on magnetolectric coefficient. Trend analysis of variable core size (a and b) and shell thickness (c and d) of CFO-BTO (a and c) and FO-BTO (b and d) MENPs when stimulated with a high strength ($> M_s$) DC bias magnetic field directed along z on the magnetolectric coefficient α_{ME} (V/cm·Oe).

<https://doi.org/10.1371/journal.pone.0314414.g003>

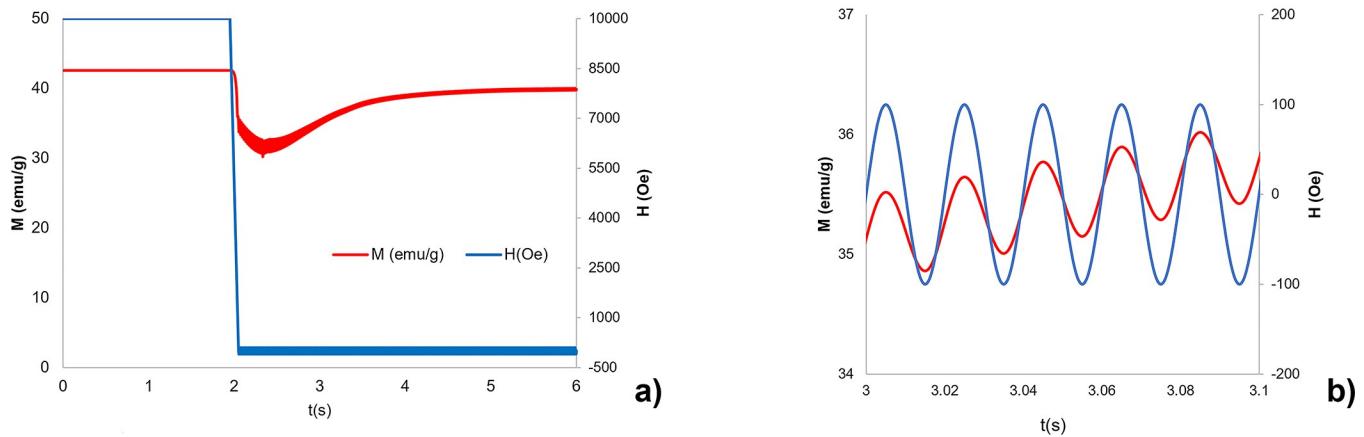


Fig 5. Magnetization of MENP under DC+AC stimulation. Magnetization M (emu/g) (red line) of a CFO core ($\varnothing_{core} = 50$ nm)-BTO shell ($t_{shell} = 15$ nm) nanoparticle under a DC+AC external magnetic field (H (Oe)- blue line) directed along z. a) M (emu/g) as a function of 2 seconds DC high amplitude ($H = 10$ kOe) magnetic field followed by 4 seconds weak AC ($f = 50$ Hz, 100 Oe) magnetic field excitation. b) Magnification of Fig 5A in five AC excitation periods.

<https://doi.org/10.1371/journal.pone.0314414.g004>

Reference

1. Fiocchi S, Chiaramello E, Marrella A, Suarato G, Bonato M, Parazzini M, et al. (2022) Modeling of core-shell magneto-electric nanoparticles for biomedical applications: Effect of composition, dimension, and magnetic field features on magnetoelectric response. PLOS ONE 17(9): e0274676. <https://doi.org/10.1371/journal.pone.0274676> PMID: 36149898