Correction: Electrostatically modulated magnetophoretic transport of functionalised iron-oxide nanoparticles through hydrated networks

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Correction for ‘Electrostatically modulated magnetophoretic transport of functionalised iron-oxide nanoparticles through hydrated networks’ by Stephen Lyons et al., Nanoscale, 2020, 12, 10550–10558, DOI: 10.1039/D0NR01602K.

This erratum relates to Fig. 3 and 4 in the published manuscript, where the labels of both y-axes as given are incorrect. The label given in the published manuscript for both figures is \( v_{\text{exp}}/d_{\text{hyd}} \). This should be corrected to \( v_{\text{exp}} \cdot d_{\text{hyd}} \) and the units should be mm\(^2\) h\(^{-1}\). The numerical values for the data are correct and remain unchanged (hence, it is a mis-labelling). The same labelling error (\( v_{\text{exp}}/d_{\text{hyd}} \) in place of \( v_{\text{exp}} \cdot d_{\text{hyd}} \)) was made in two places in the text (page 10555 in the “Electrostatic effects on magnetophoretic mobility” section). The scaling of the \( v_{\text{exp}} \) values in this way (as a product with \( d_{\text{hyd}} \)) is consistent with expectation, as formulated by eqn (1). Hence, there is no change to the interpretation of the results or any of the conclusions.

Fig. 3 Normalised magnetophoretic velocities, \( v_{\text{exp}} \cdot d_{\text{hyd}} \), for PEG1000, citrate-, and arginine-MNP suspensions through the different classes of agarose–H\(_2\)O (Aga/Low, Aga/Med, Aga/High) (0.3% w/v). Error bars are included for all functionalised MNPs. The \( v_{\text{th}} \cdot d_{\text{hyd}} \) values are represented as black bars.

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The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

Fig. 4  Normalised magnetophoretic velocities, $v_{\text{exp}} \cdot d_{\text{hyd}}$, for PEG1000-, arginine- and citrate-MNP suspensions through agarose–PBS (Aga/High, 0.3% w/v). MNP suspensions and agarose gels were prepared in PBS buffer to give IS of 0, 0.0014, 0.007 and 0.014 at pH 7.0. The $v_{\text{exp}} \cdot d_{\text{hyd}}$ values are represented as black bars.