Electronic Supplementary Material (ESI) for Lab on a Chip.

Supporting Information

On-Chip Magnetometer for Characterization of Superparamagnetic Nanoparticles

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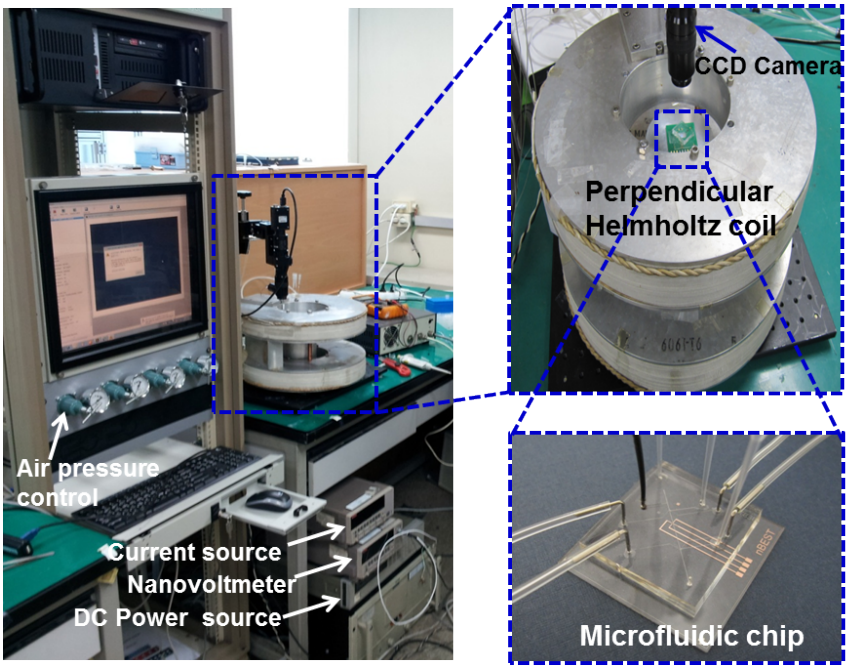

Fig. S1 Experimental set up for measurement of oscillating droplet.

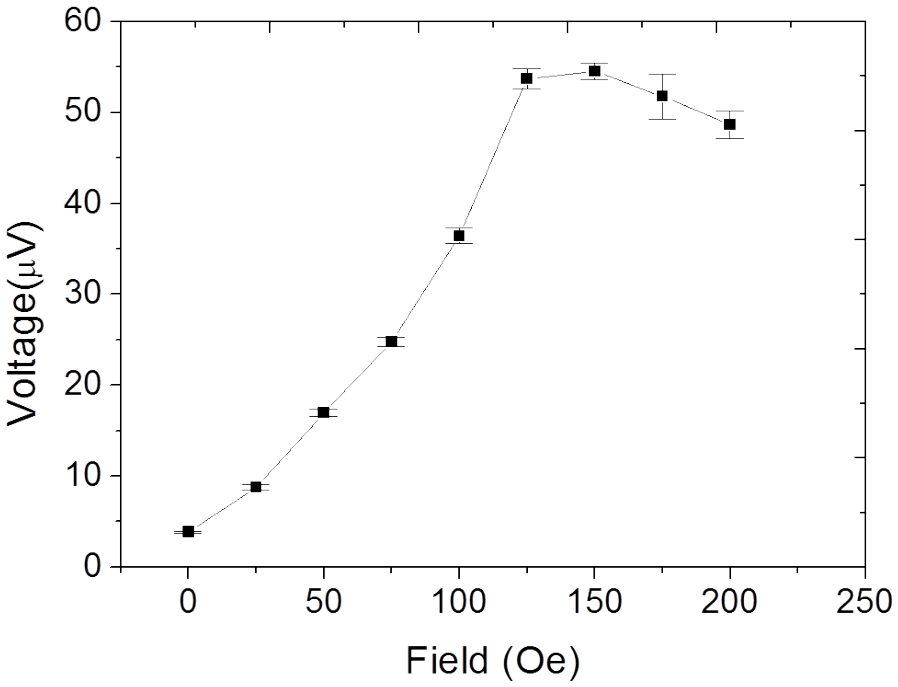

Fig. S2 Change in PHR signals of droplet by application of in-plane magnetic field.

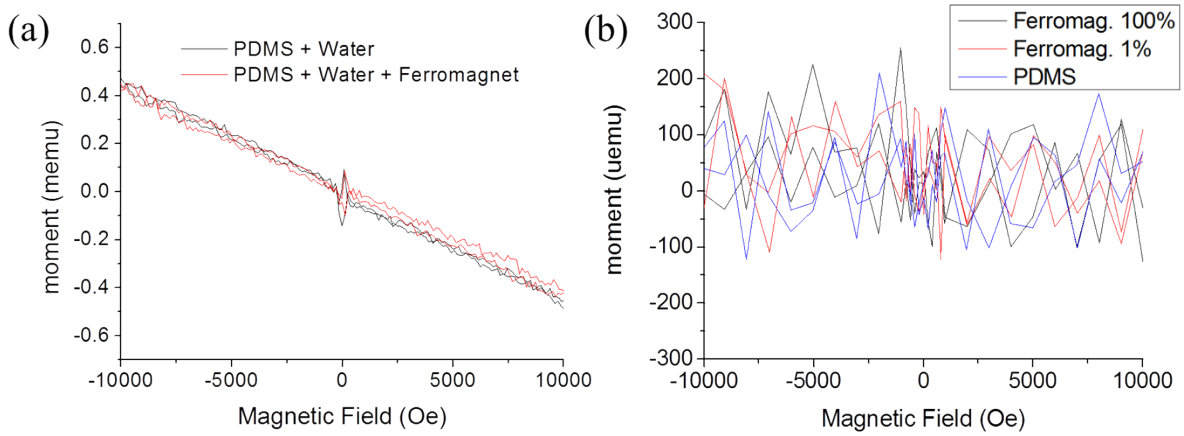

Fig. S3 (**a**) VSM measurement and (**b**) SQUID measurement for 35 pL sample volume.

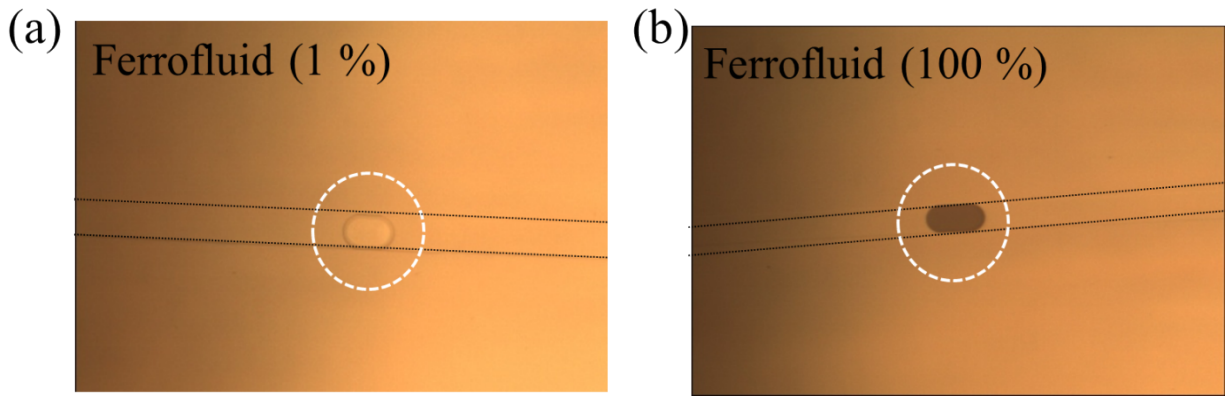

Fig. S4 Microscopic images of droplets with (a) 1 % and (b) 100 % ferrofluid concentrations