

Supplementary Information

Magnetic Field Directed Assembly of Two-Dimensional Fractal Colloidal Aggregates

Julie Byrom and Sibani Lisa Biswal

Department of Chemical and Biomolecular Engineering, Rice University, Houston, Texas 77005,
USA

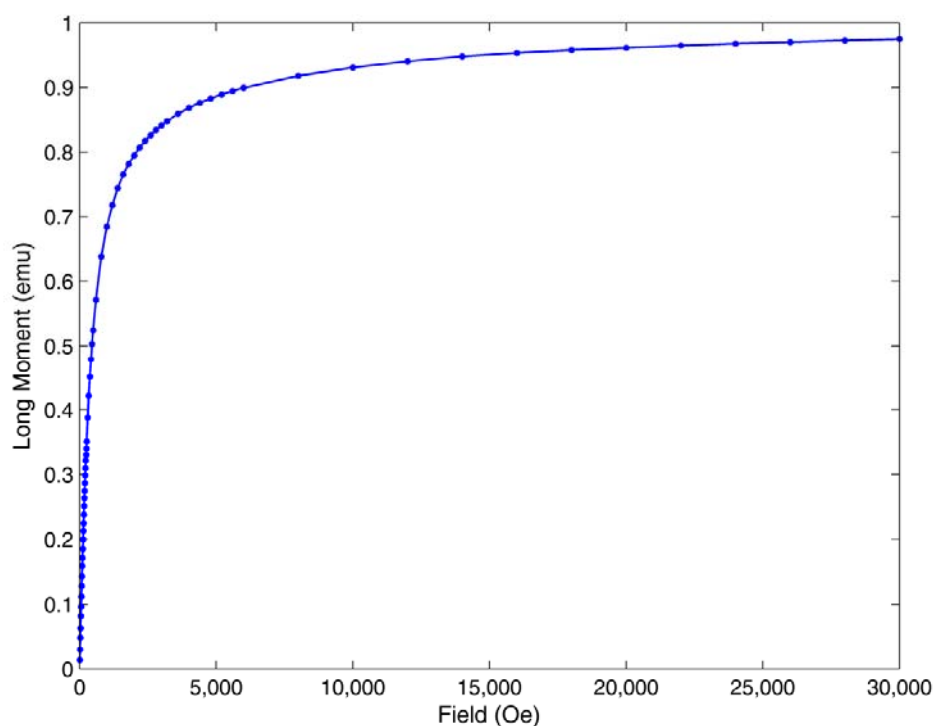


Fig. S1 M-H curve of a 16.5mg dry sample of the ferrofluid used in experiments, measured using a SQUID magnetometer. The data yields a saturated moment of $\mu_s = 0.98\text{emu}$, which can then be converted to a saturated magnetization of $M_s = 307\text{ kA/m}$

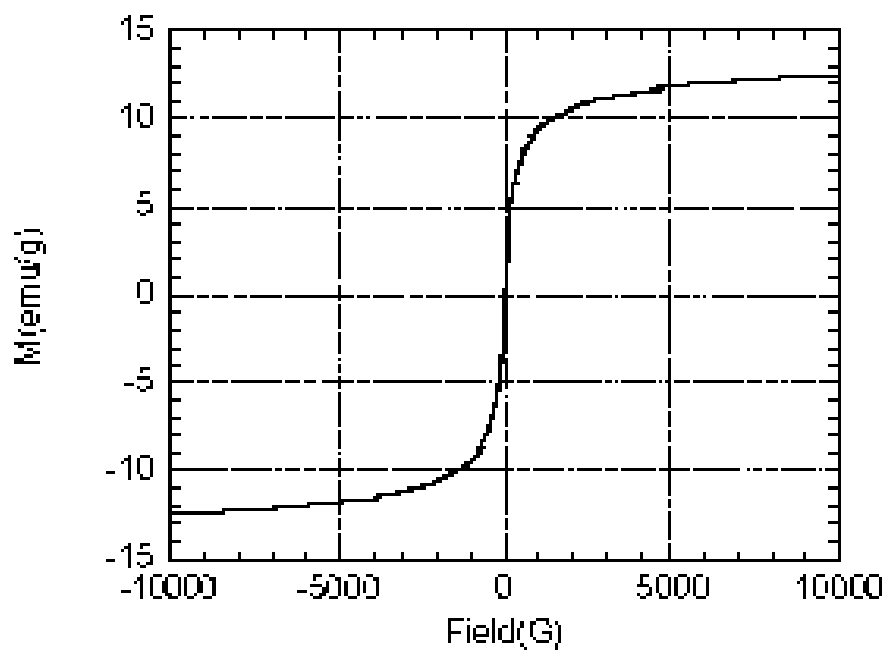


Fig. S2 M-H curve provided by Invitrogen for the paramagnetic beads (Dynabeads M-270). Also provided was a value for the magnetic (mass) susceptibility of $\chi_p = 6 \times 10^{-4} \text{ m}^3/\text{kg}$, which can be converted to a magnetic (volume) susceptibility of $\chi_p = 0.96$.