

## Supporting Information:

### Magnetic Aerogels from FePt and CoPt<sub>3</sub> Directly from Organic Solution

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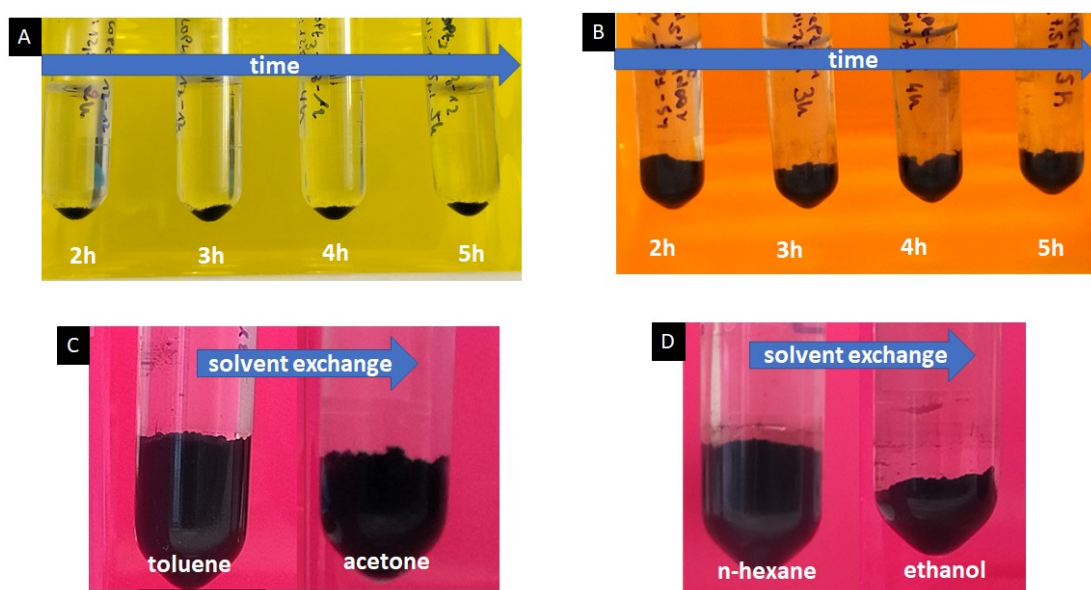
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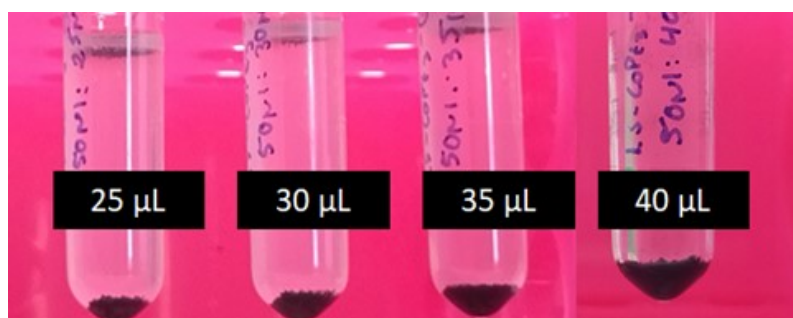
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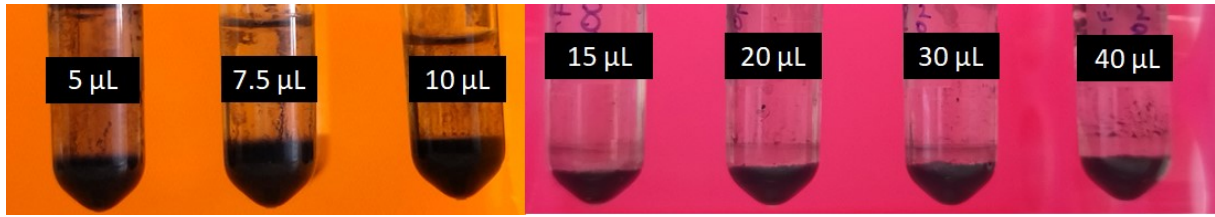
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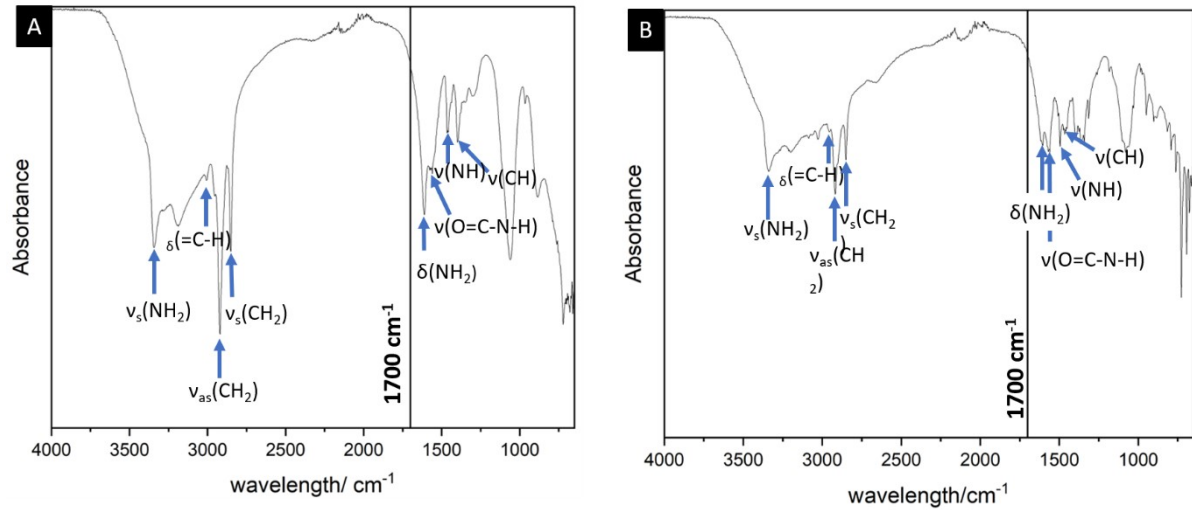
**Figure S1:** Gels after different gelation times for (A) CoPt<sub>3</sub> and (B) FePt particles and gels before and after solvent exchange for (C) CoPt<sub>3</sub> and (D) FePt particles.



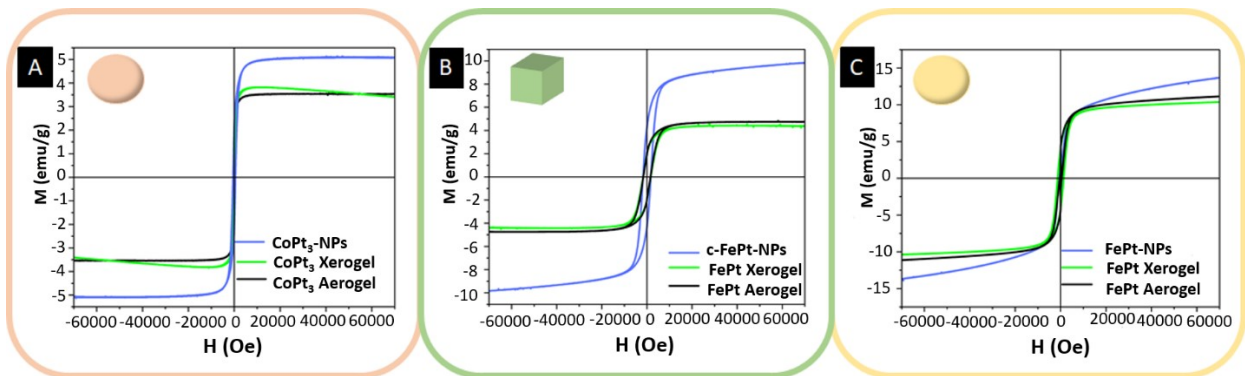
**Figure S2:** Gels with different volumes of added hydrazine for 50 µL CoPt<sub>3</sub> particles.



**Figure S3:** Gels with different volumes of added hydrazine for 100  $\mu\text{L}$  FePt particle solution.



**Figure S4:** IR-spectra of mixtures from hydrazine, oleylamine and oleic acid (A) and hydrazine, hexadecylamine and 1-adamantecarboxylic acid (B).



**Figure S5:** Hysteresis cycles measured at 5 K and 7 T before and after the gelation for  $\text{CoPt}_3$  (A), FePt quasi-cubic particles (B) and FePt dots (C).