Magnetic Properties of EuS Nanoparticles Synthesized by Thermal Decomposition of Molecular Precursors

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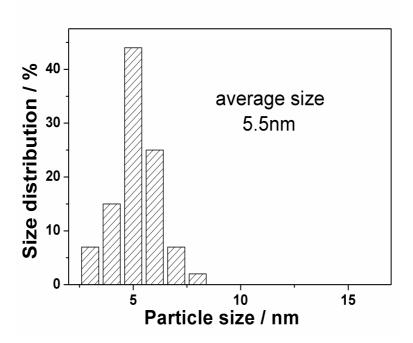


Figure 1S. Size distribution of sample *EuS-2*.

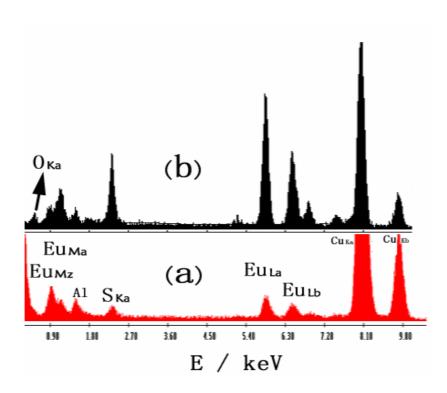


Figure 2S. Energy-dispersed X-ray (EDX) spectrum of *EuS-2* (a) and EuS put in air for one week (*EuS-2w*) (b). (The existence of Al is due to the sample platform).

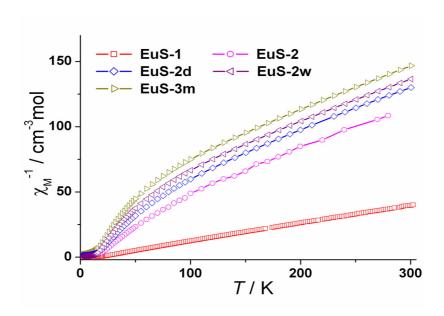


Figure 3S. Temperature dependence of the inverse magnetic susceptibility χ^{-1} of EuS nanoparticles.

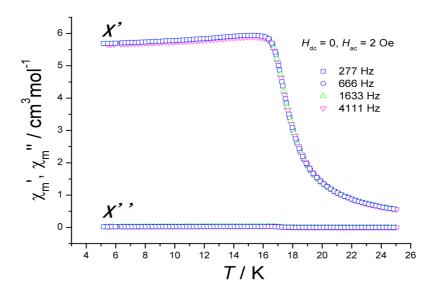


Figure 4S. Thermal variation of the ac susceptibility with a zero DC magnetic field at different frequencies of the oscillating magnetic field (2Oe) for *EuS-1*.

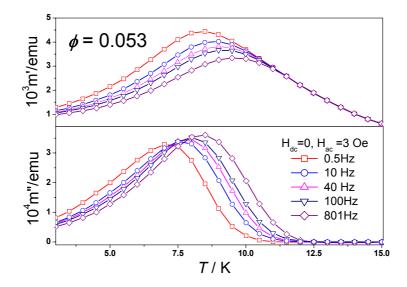


Figure 5S. Thermal variation of the ac susceptibility with a zero DC magnetic field at different frequencies of the oscillating magnetic field (3Oe) for *EuS-2*.

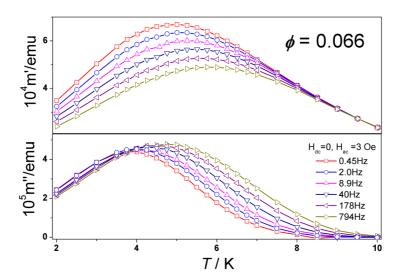


Figure 6S. Thermal variation of the ac susceptibility with a zero DC magnetic field at different frequencies of the oscillating magnetic field (3Oe) for *EuS-2m*.

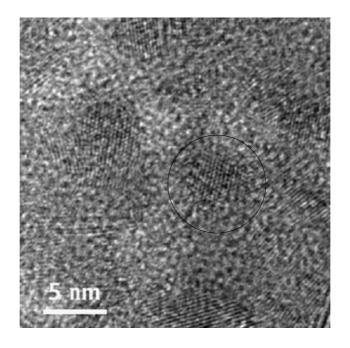


Figure 7S. HRTEM images of *EuS-2* put in air for one month.