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Supplementary information



Fig.1. Temperature dependence of imaginary part (χ'') of the ac susceptibility measured at different applied frequencies with an ac magnetic field of 1 Oe for x=2 alloy.



Fig.2. In (τ) vs. maximum spin freezing temperature (T) fitted to the critical power law. Inset shows the variation of $\log_{10}\tau$ with $\log_{10} ((T_f - T_{SG})/T_{SG})$ for x=2 alloy. The solid line represents the linear fit to the experimental data.



Fig.3. Temperature dependence of imaginary part (χ'') of the ac susceptibility measured at different applied frequencies with an ac magnetic field of 1 Oe for x=3 alloy.



Fig.4. ln (τ) vs. maximum spin freezing temperature (T) fitted to the critical power law. Inset shows the variation of $\log_{10}\tau$ with $\log_{10} ((T_f - T_{SG})/T_{SG})$ for x=3 alloy. The solid line represents the linear fit to the experimental data.