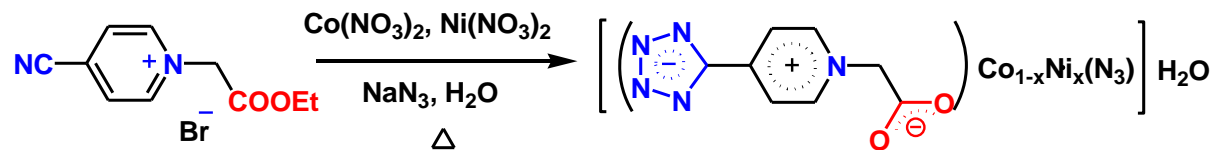


Electronic Supplementary Information (ESI)

Random mixed-metal $\text{Co}_{1-x}\text{Ni}_x$ single-chain magnets with simultaneous azide, carboxylate and tetrazolate bridges

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*



Scheme S1. Synthesis of the compounds involving *in-situ* ligand formation.

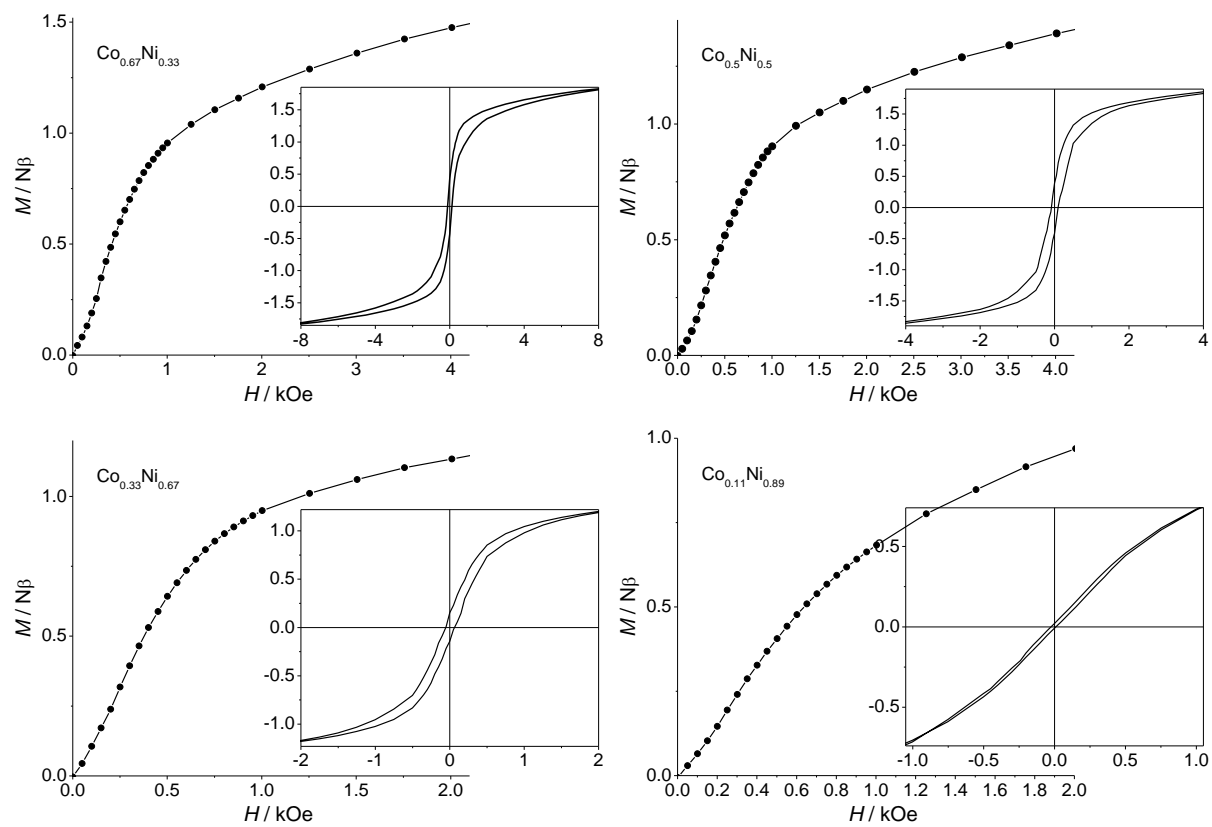


Figure S1. $\ln(\chi T)-1/T$ plots with the linear-fit lines for the $\text{Fe}_{1-x}\text{Co}_x$ series.

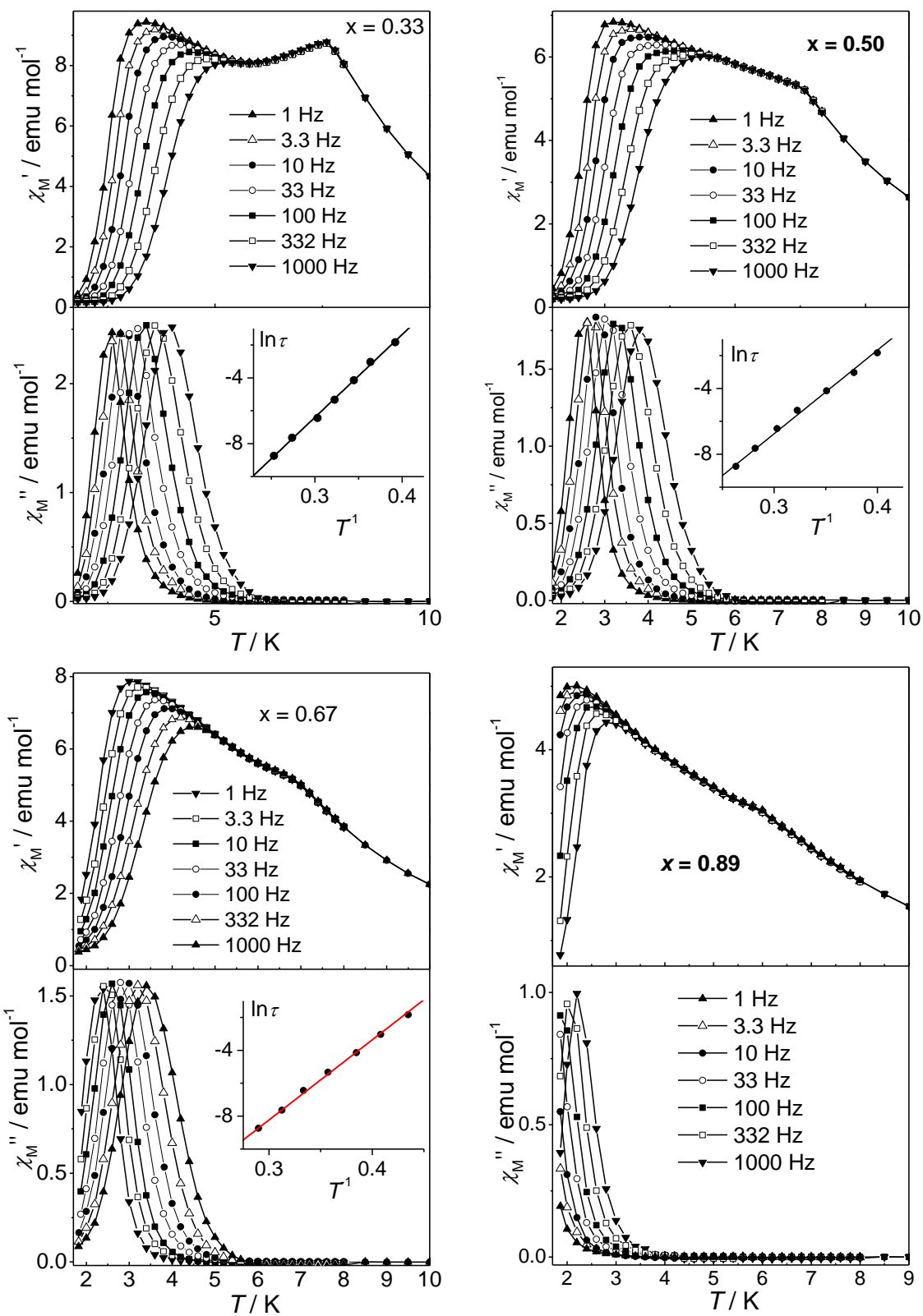


Figure S2. AC susceptibilities for $x = 0.33$, 0.50 , 0.67 and 0.89 . The insets is the fit to the Arrhenius law.

Table S1. Metal composition of the mixed-metal materials

Starting molar ratio (Co/Ni)	x(Ni) (starting)	x(Ni) (measured)
8/1	0.11	0.14
2/1	0.33	0.30
1/1	0.50	0.46
1/2	0.67	0.62
1/8	0.89	0.90