

Supplementary Material

Large anomalous Nernst conductivity of $L1_0$ -ordered CoPt in CoPt composition-spread thin films

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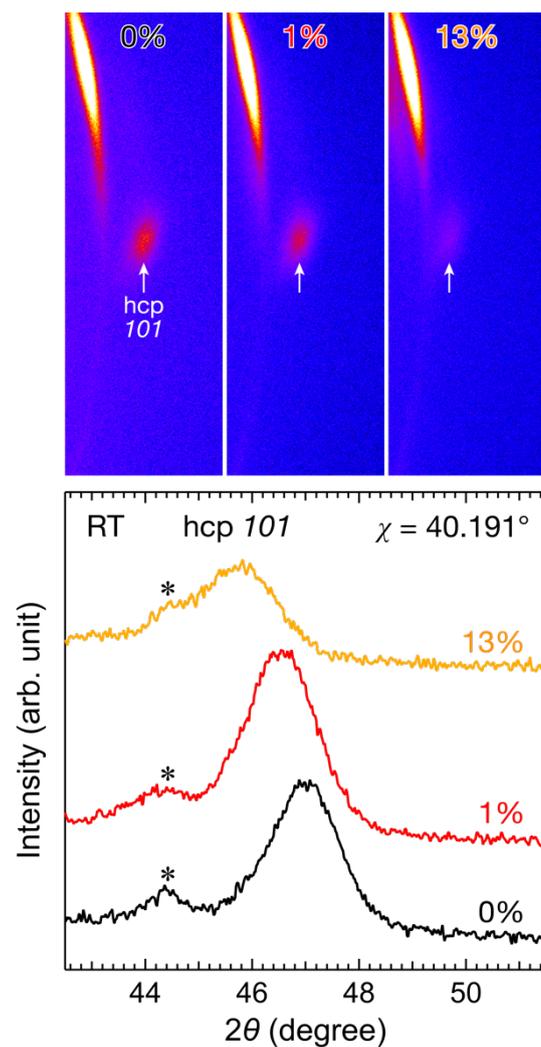


Figure S1. Two-dimensional (2D) x-ray diffraction (XRD) images and one-dimensional (1D) XRD patterns with $\chi = 40.191^\circ$ of $\text{Co}_{1-x}\text{Pt}_x$ composition-spread thin films on $\text{MgO}(100)$ substrates grown at room temperature (RT) for $x = 0\%$, 1% and 13% . The diffraction peaks indicated by the symbol * originated from electrical contact pads.

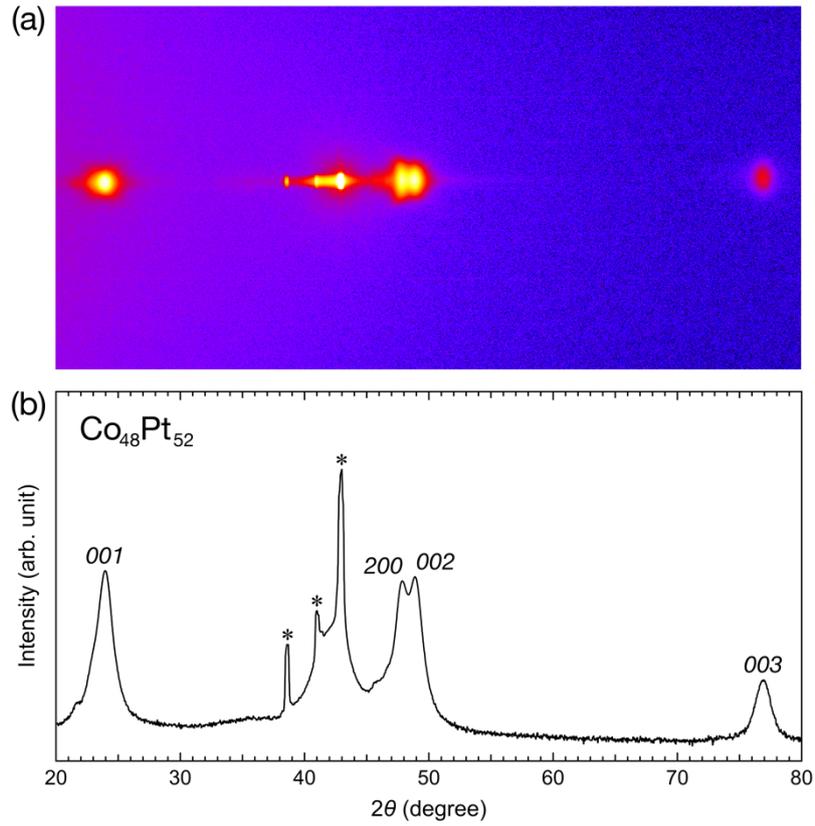


Figure S2. 2D XRD image and 1D XRD pattern with $\chi = 0^\circ$ (out-of-plane) of nearly stoichiometric $\text{Co}_{48}\text{Pt}_{52}$ reference uniform film on MgO(100) substrate grown at RT, followed by post-annealing at 600 °C. The diffraction peaks indicated by the symbol * originated from the MgO(100) substrate.