

Fig.S1. DSC of the  $\text{KCu}_{7-x}\text{S}_4$  (a) and  $\text{Cu}_7\text{S}_4$  (b) films.

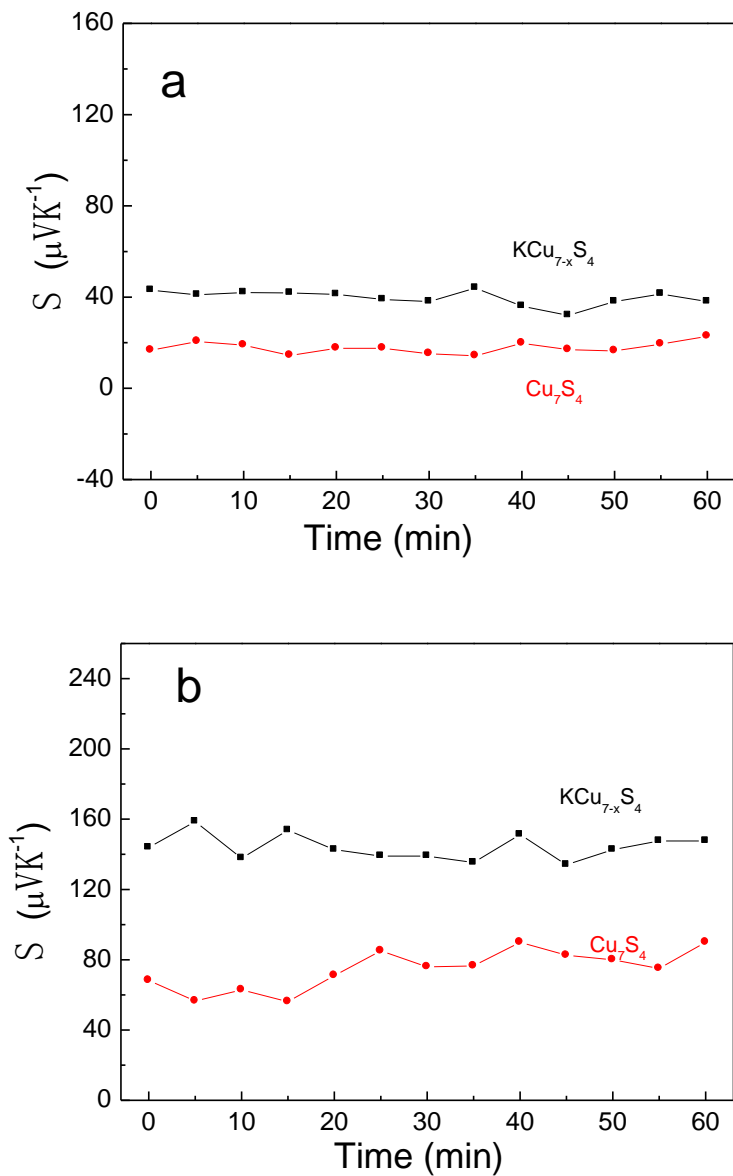


Fig. S2. Seebeck coefficient stability of the films at 320 K (a) and 510 K (b) for an hour.