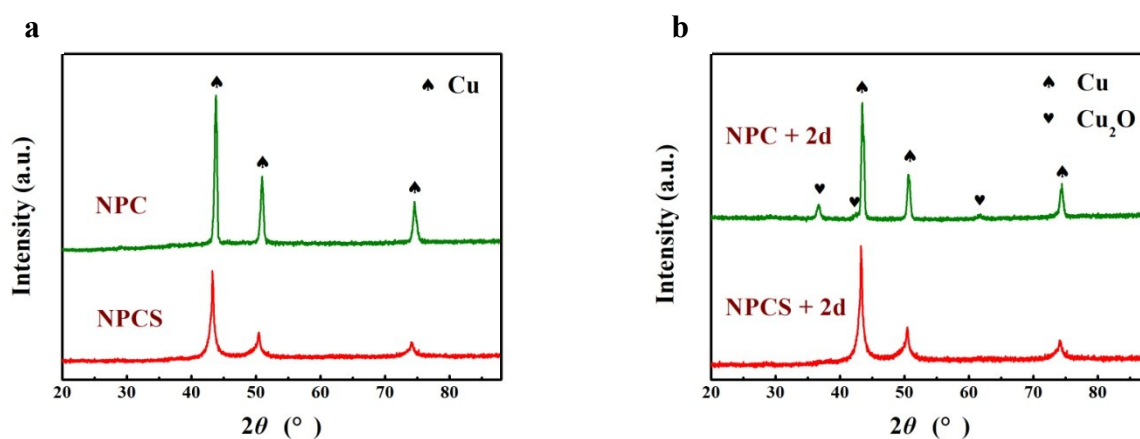


**Fig. S1.** SEM images and the corresponding EDS results of the samples: (a)  $\text{Cu}_{72}\text{Y}_{28}$  metallic glasses, (b)  $\text{Cu}_{70}\text{Y}_{28}\text{Ag}_2$  metallic glasses.



**Fig. S2.** XRD patterns of the dealloying samples which aged in air for (a) 0 days, (b) 2 days.

**Table S1.** The concentration of metal ion in solution after the sono-catalytic reaction.

	Cu	Ag	Y
NPC	0.042	-	-
NPCS	0.034	0.006	-