

Supporting Information

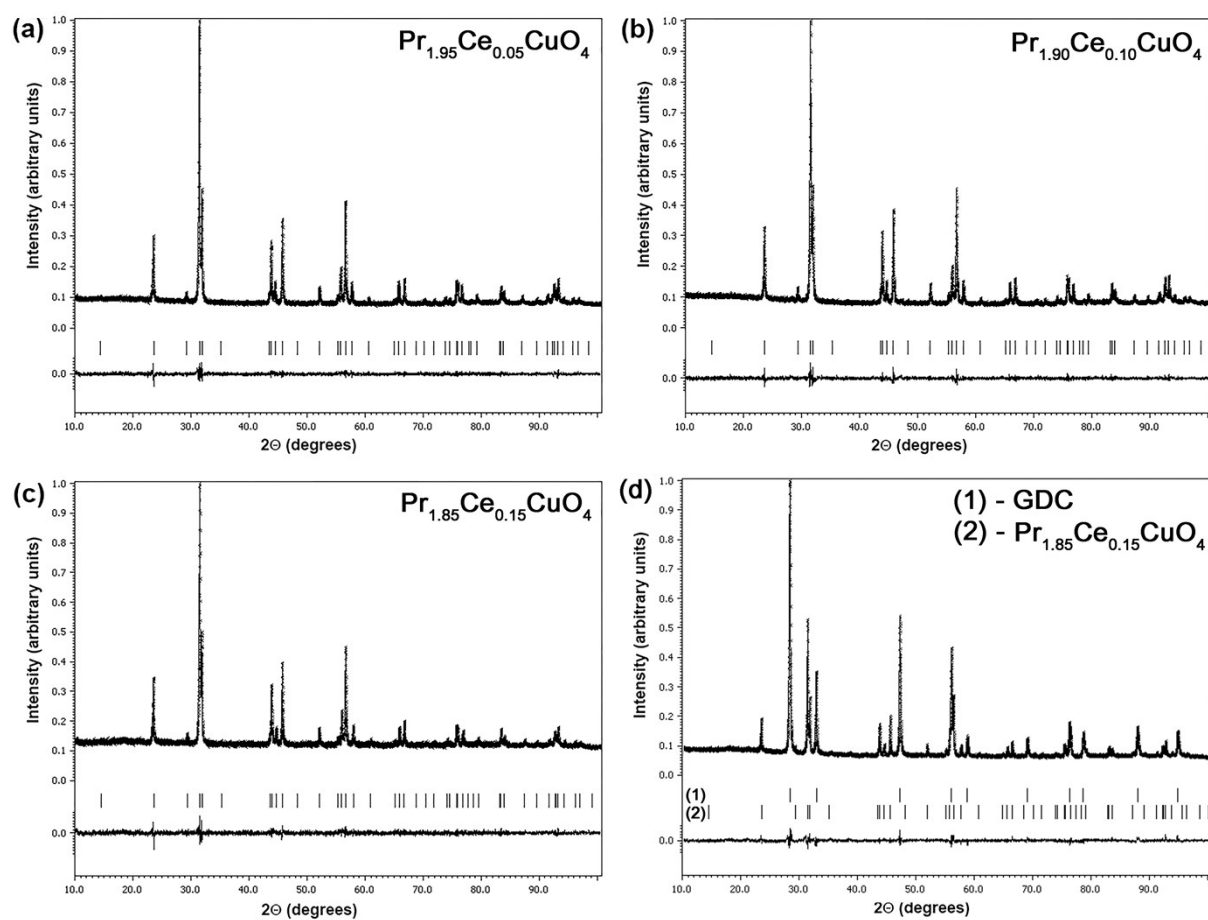


Fig. S11 XRPD patterns of the $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_{4\pm\delta}$ ($x = 0.05; 0.1; 0.15$) (a-c) and $\text{Pr}_{1.85}\text{Ce}_{0.15}\text{CuO}_4/\text{GDC}$ mixture (d) annealed at 950 °C for 25 h in air.

Unit cell parameters of the $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ (space group $I4/mmm$)

$\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4, x$	Unit cell parameters		
	$a, \text{Å}$	$c, \text{Å}$	$V, \text{Å}^3$
0	3.9635(2)	12.2104(5)	191.8(1)
0.05	3.9634(1)	12.2207(4)	192.0(1)
0.10	3.9637(1)	12.1851(5)	191.4(1)
0.15	3.9644(1)	12.1581(6)	191.1(1)

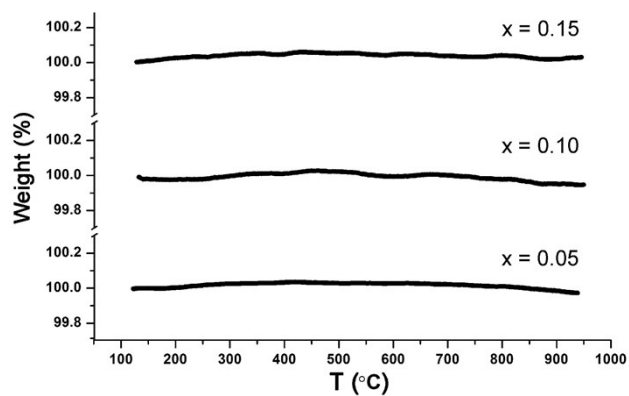


Fig. SI2 Temperature dependencies of a weight change of the $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_{4\pm\delta}$ ($x = 0.05; 0.1; 0.15$) upon heating in air.

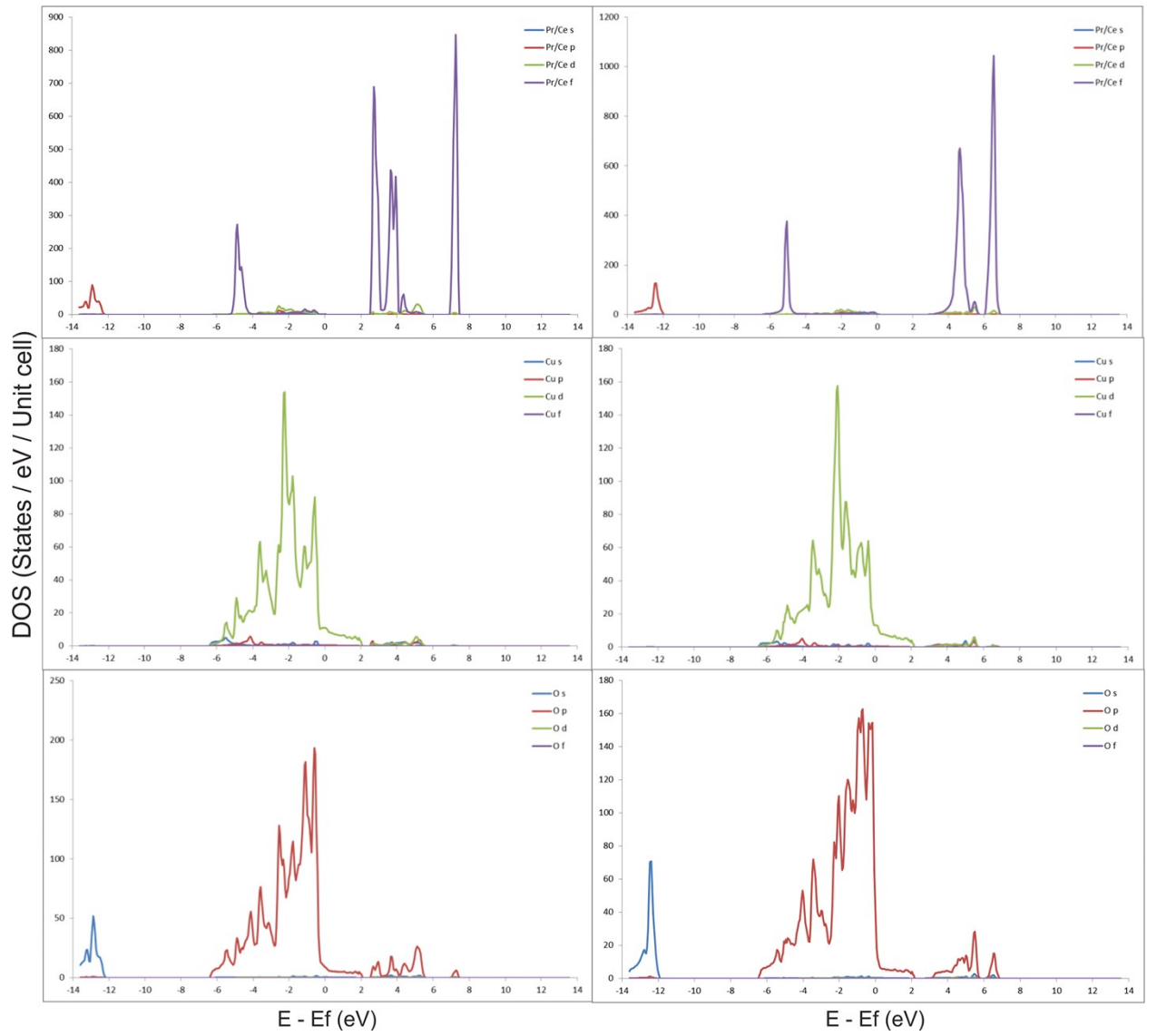


Fig.SI3 Partial DOS (*l*-resolved) for Pr/Ce, Cu, and O atoms in the 2.5%- (left column) and 10%- Ce (right column) doped Pr_2CuO_4 . Fermi energy is at zero.