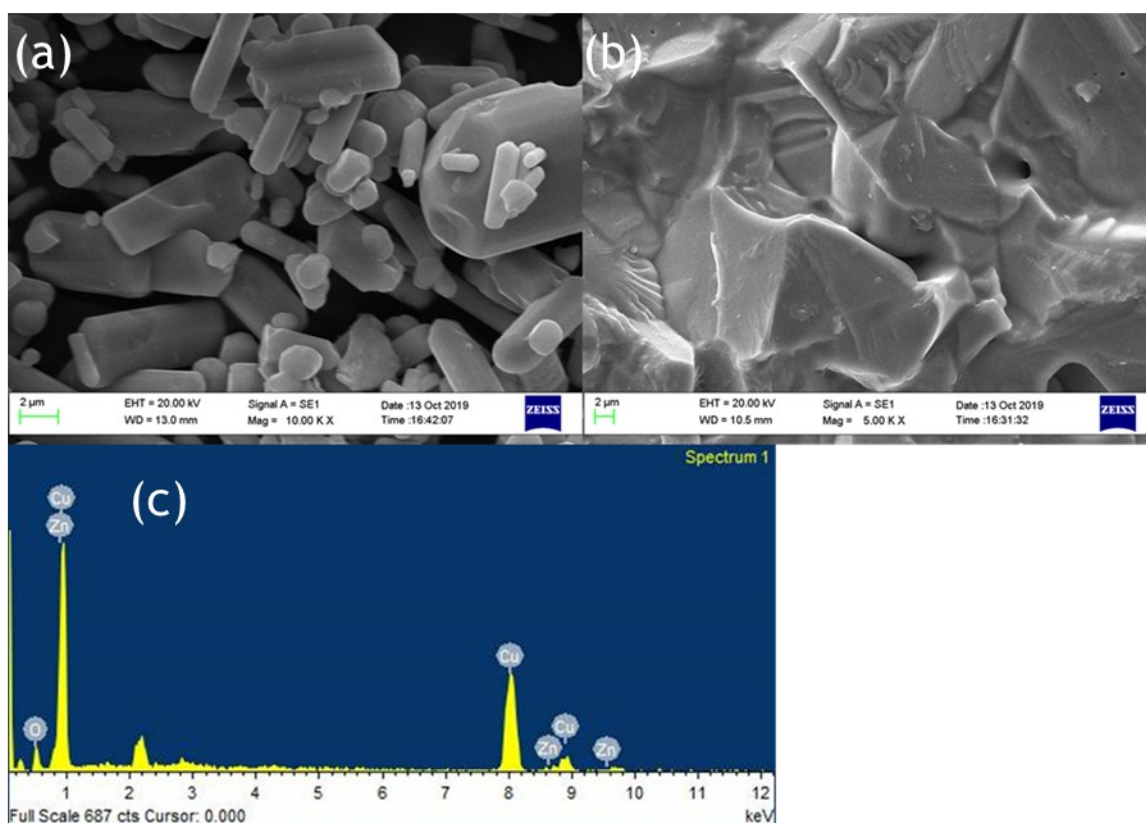


Supporting Information:

Table S1. Structural Parameters of $\text{Zn}_{1-x}\text{Cu}_x\text{O}_{1-\delta}$

Compound	Lattice Parameters		χ^2	R_f	R_{Bragg}	R_{wp}
	a=b	c				
$\text{Zn}_{0.98}\text{Cu}_{0.02}\text{O}_{1-\delta}$	3.249193	5.204031	1.581	6.47	7.88	14.2
$\text{Zn}_{0.95}\text{Cu}_{0.05}\text{O}_{1-\delta}$	3.251282	5.207811	2.556	7.47	6.78	15.5
$\text{Zn}_{0.92}\text{Cu}_{0.08}\text{O}_{1-\delta}$	3.251762	5.205712	2.341	6.81	7.12	15.9
$\text{Zn}_{0.9}\text{Cu}_{0.1}\text{O}_{1-\delta}$	3.251971	5.203214	2.115	7.21	6.18	16.7
$\text{Zn}_{0.88}\text{Cu}_{0.12}\text{O}_{1-\delta}$	3.252005	5.205581	2.188	6.73	7.20	17.9
$\text{Zn}_{0.85}\text{Cu}_{0.15}\text{O}_{1-\delta}$	3.251903	5.204715	3.124	7.17	6.89	17.5



Supporting Figure S1. Scanning electron micrograph of Zn_{0.95}Cu_{0.05}O_δ (a) powder and (b) Pellet, sintered at 1050°C for 12h, showing clean single phase material with distinctive grains. (c) EDX analysis showing stoichiometric distribution of Zn, Cu and O elements.