

Synthesis of copper-silver-zinc oxide nanocomposites for 4-nitrophenol reduction: doping and heterojunction

Buzuayehu Abebe *, Bontu Kefale, Dereje Tsegaye Leku *

Adama Science and Technology University, Department of Applied Chemistry, 1888, Adama, Ethiopia

Supplementary figure

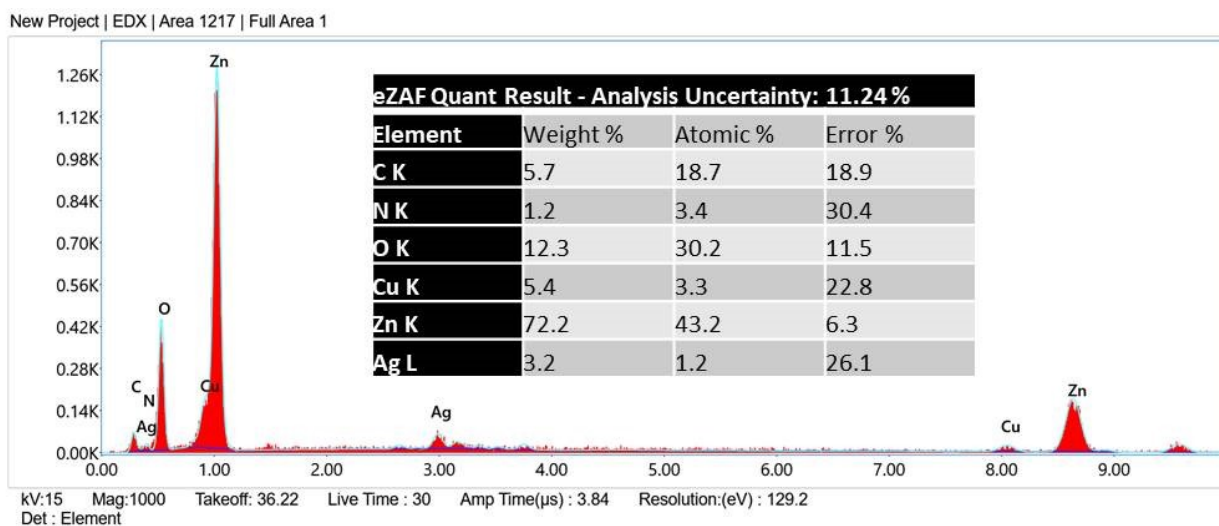


Fig. S1. Compositional analysis using Energy dispersive X-ray analysis. The EDAX analysis spectra of Cu-doped ZnO/CuO/Ag nanocomposites. The table inset in Fig. S1 is the compositional analysis results of the composite. The expected elements of Zn, Ag, Cu, and O were detected on the spectra.

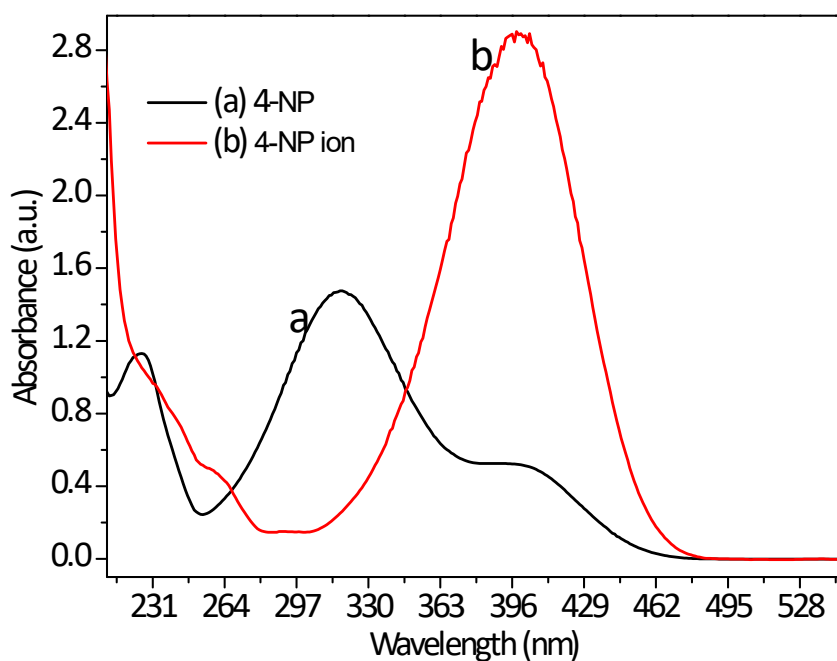


Fig. S2. When sodium borohydride is added, 4-nitrophenol, which has a maximum wavelength of 317 nm, transforms into 4-nitrophenolate ions with a maximum wavelength of 399 nm.