(a) Graph showing intensity (a.u.) vs. binding energy (eV) with peaks labeled Ga2p1, Ga2p3, Zn2p1, Zn2p3, LMM3,4, LM2M2,3, O1s, ZnLMM1, C1s, Zn3s, Zn3p, and Ga3d.

(b) Graph showing intensity (a.u.) vs. binding energy (eV) with peaks labeled Ga2p1, Ga2p3, Zn2p1, Zn2p3, O1s, and N1s, with Ar sputtering times indicated.

(c) High resolution XPS N 1s peak at ~396-397 eV (Zn-N or Ga-N).

(d) Graph showing atomic ratio of Zn/Ga vs. Ar sputtering minute.