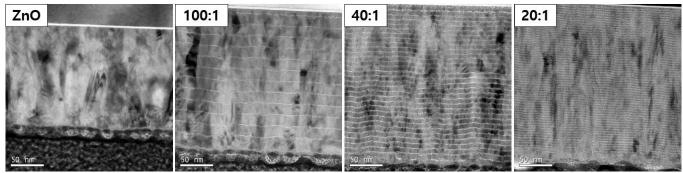
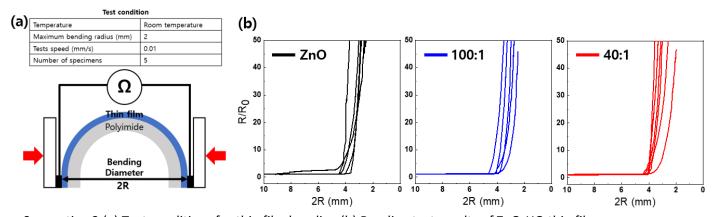
Supporting Information



Supporting 1. Cross section of ZnO-HQ thin films with HQ ratio observed using TEM



Supporting 2 (a) Test conditions for thin film bending (b) Bending test results of ZnO-HQ thin films