Interface energy barrier tailoring the morphological structure evolution from ZnO

nano/micro rod arrays to microcrystalline thin films by Mn doping

P. Soundarrajan and K. Sethuraman*

School of Physics, Madurai Kamaraj University, Madurai 625021, Tamil Nadu, India

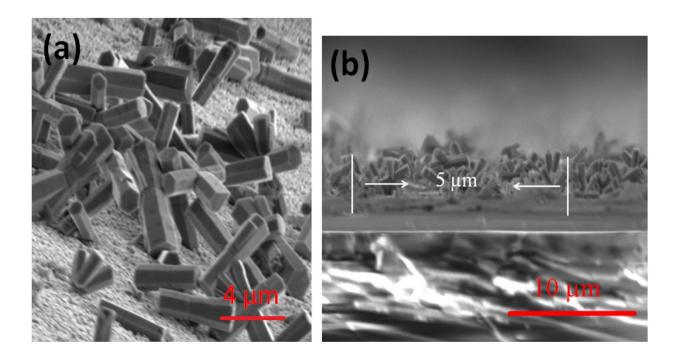


Fig. S1. Tilt (a) and cross-section (b) FESEM image of pure ZnO N/MRAs thin film. Due to low magnification FESEM image of ZnO N/MRAs, the NRs do not clearly seen in cross-section view.

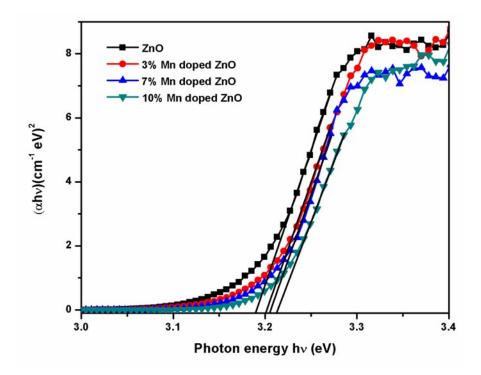


Fig. S3 Band gap energy of pure and Mn doped ZnO N/MRAs thin films.

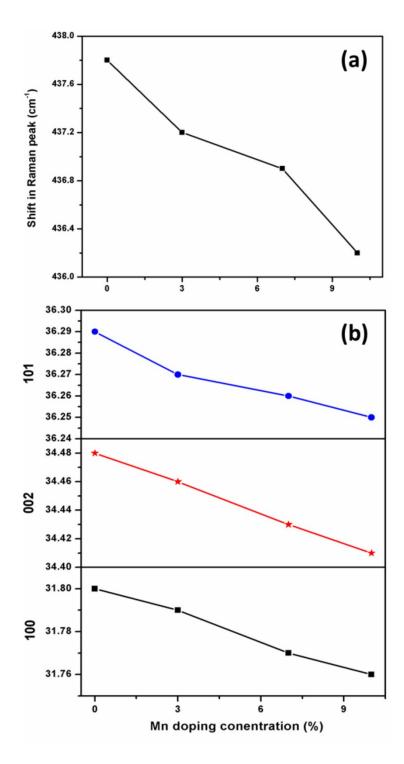


Fig. S3 Raman E_2 high mode shift (a) and dominant XRD peaks shift (b) of pure and Mn doped ZnO N/MRAs films.