**Electrical conductivity study of poly**

**(*p*-anisidine) doped and undoped ZnO nanocomposite**

**K.Rathidevi1\*, N.Velmani2 and D.Tamilselvi3**

1. Fig. 1: FTIR spectrum of PPA polymer; ZnO nanoparticles; ZPPA and MZPPA Polymeric composite blends
2. Fig. 2A: SEM images of PPA polymer; 2B: SEM image of ZPPA polymeric composite and 2C: SEM image of MZPPA polymeric composite blend and 2D: SEM image of ZnO nanoparticle.
3. Fig. 3: XRD image of ZnO semiconductor material, PPA conducting polymer, ZPPA and MZPPA polymeric composite blends
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6. Fig. 6: Variation in electrical conductivity with synthesized conducting materials against temperature difference.
7. Fig. 7: Arrhenius plot of dc conductivity against difference in temperature.

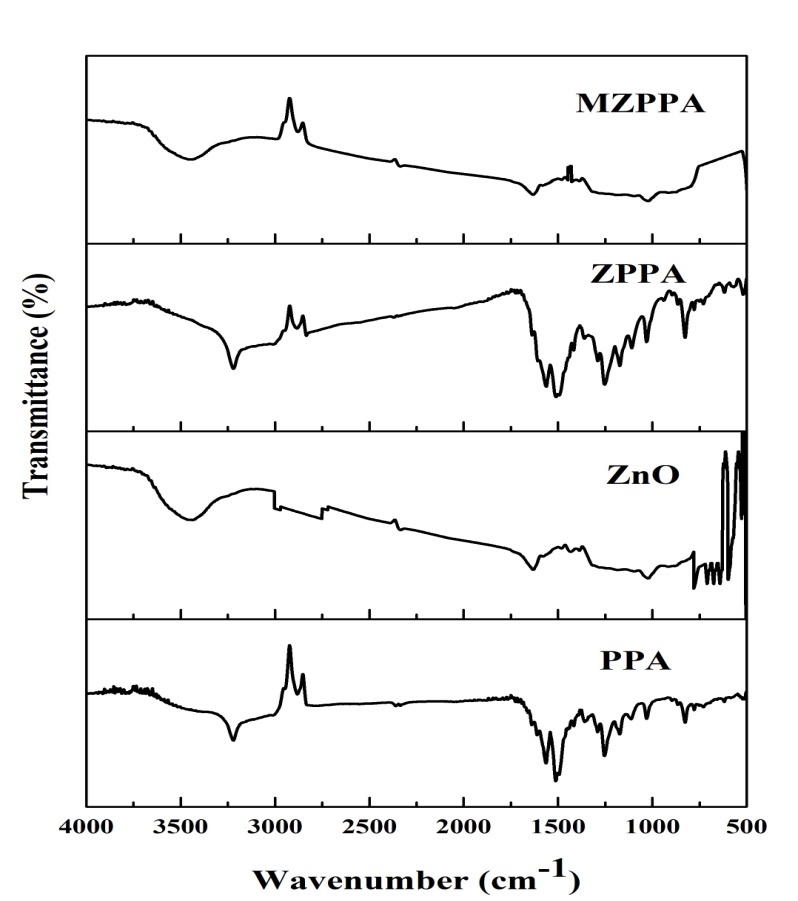
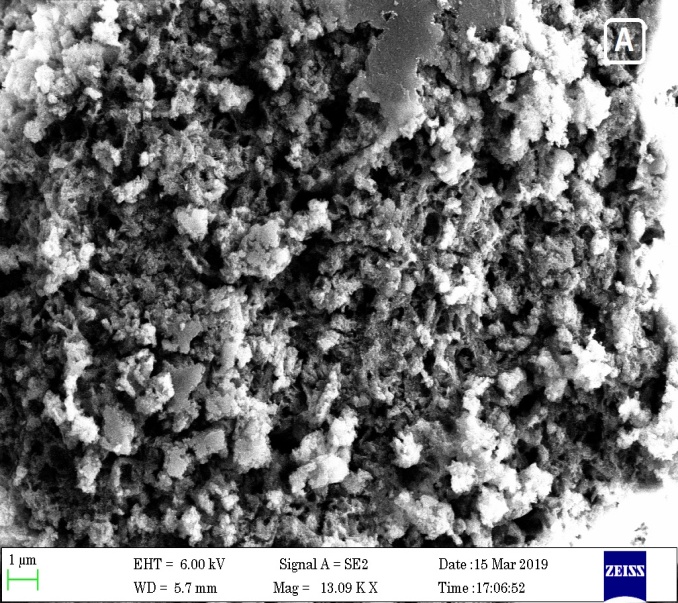
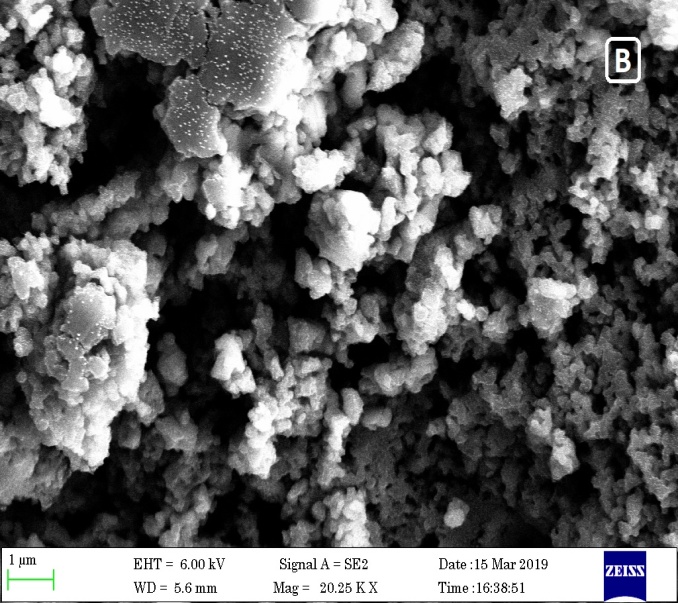


Fig. 1: FTIR spectrum of PPA polymer; ZnO nanoparticles; ZPPA and MZPPA Polymeric composite blends

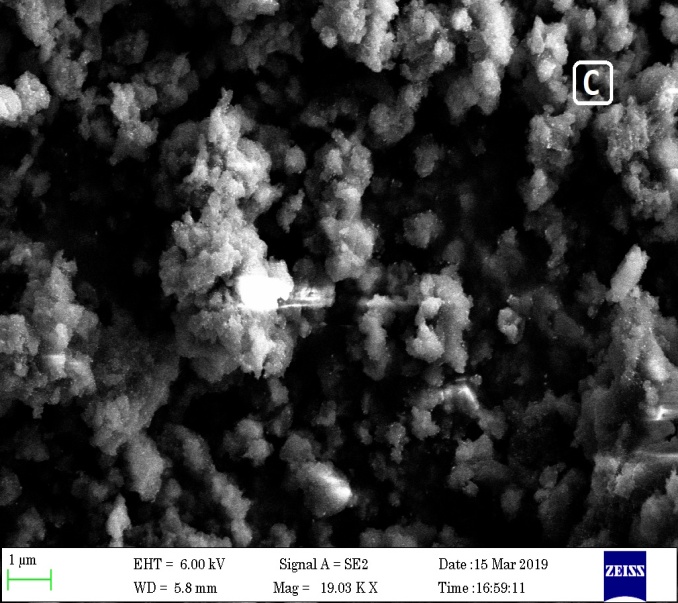
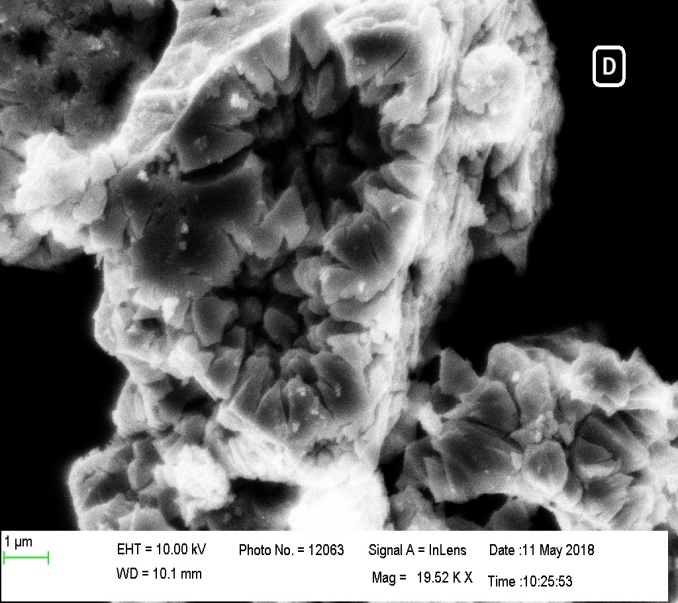
 

Fig. 2A: SEM images of PPA polymer; 2B: SEM image of ZPPA polymeric composite and 2C: SEM image of MZPPA polymeric composite blend and 2D: SEM image of ZnO nanoparticle.

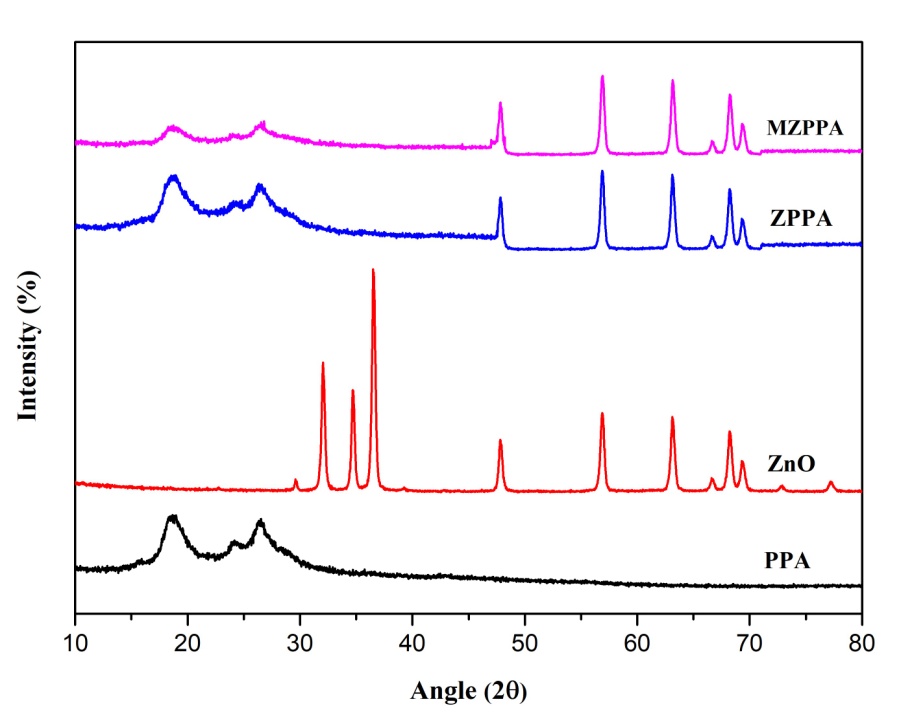


Fig. 3: XRD image of ZnO semiconductor material, PPA conducting polymer, ZPPA and MZPPA polymeric composite blends

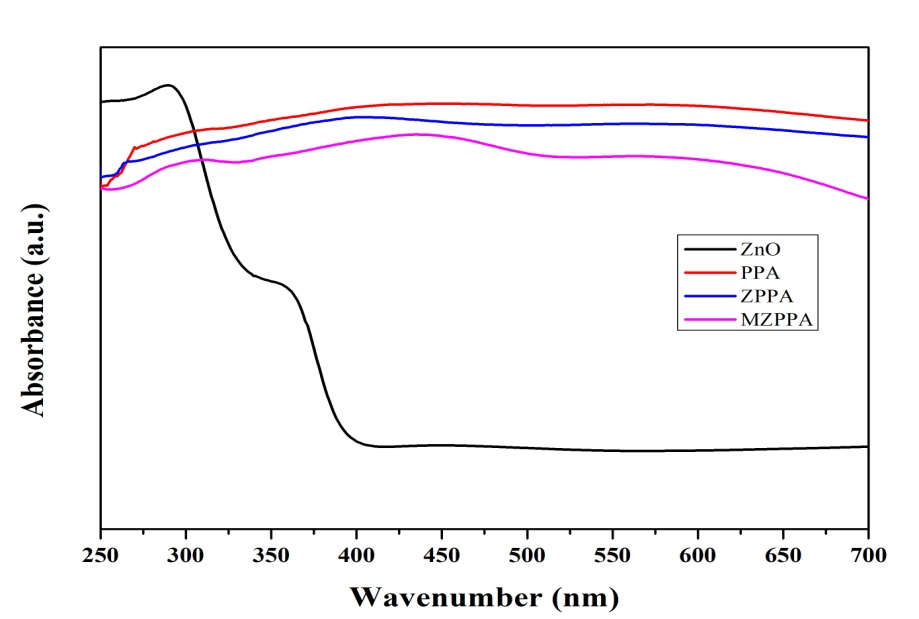


Fig. 4: UV-Vis spectra of PPA conducting polymer, ZPPA and MZPPA polymeric composite blends.

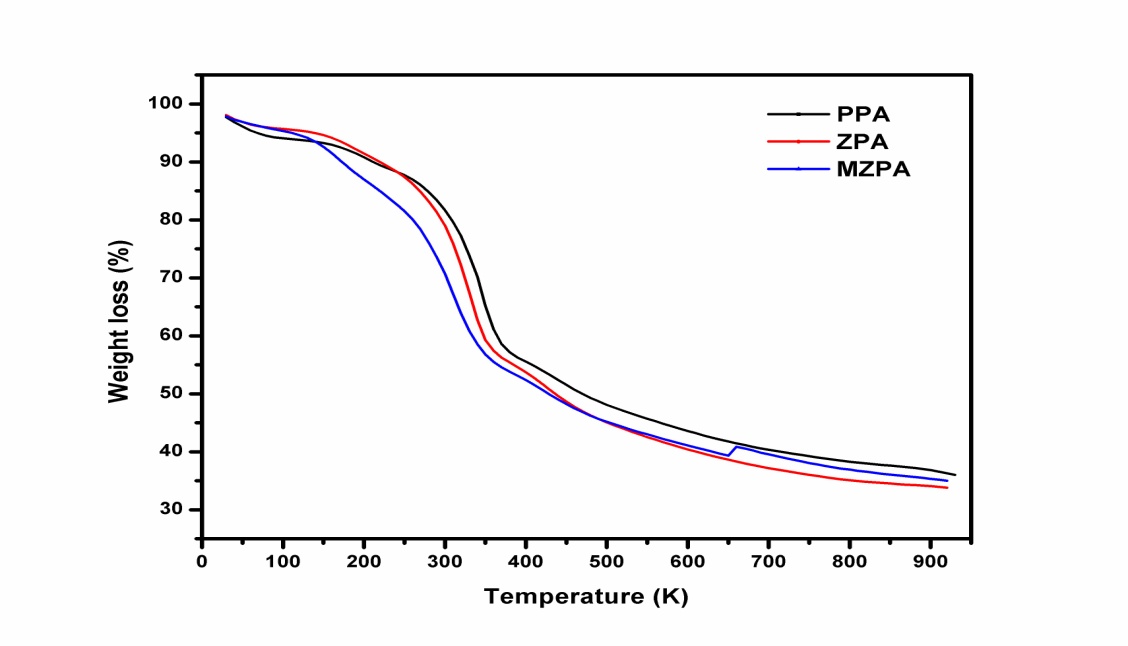


Fig. 5: TGA thermograph of PPA polymer, ZPPA and MZPPA polymeric composite blends.

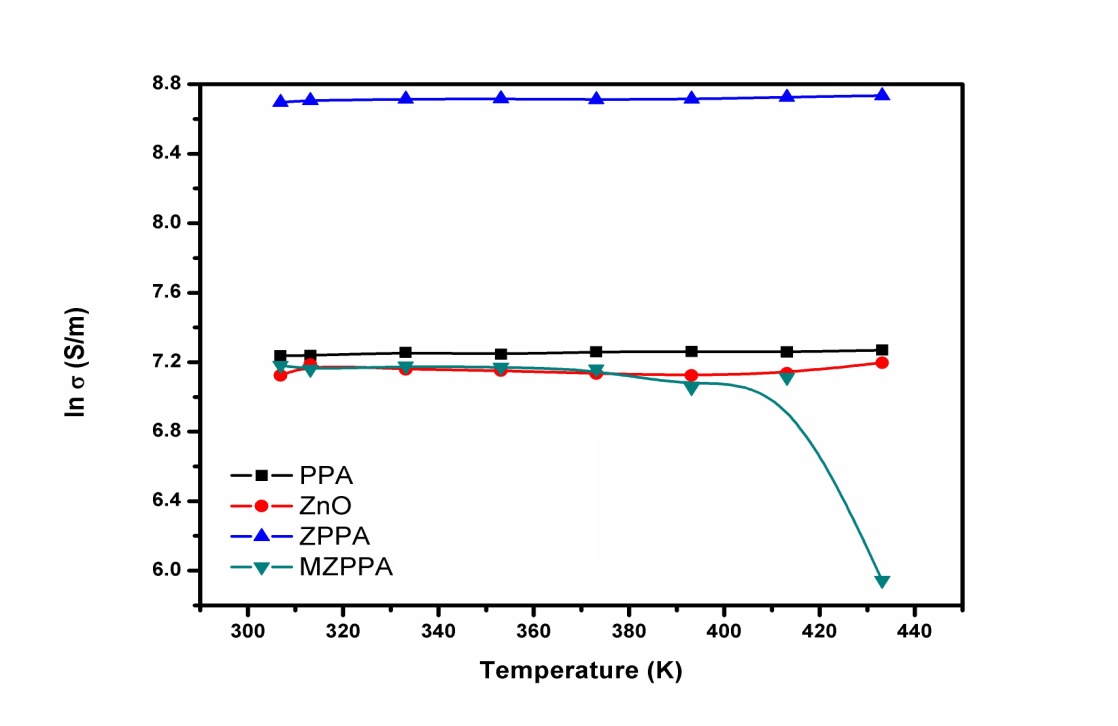


Fig. 6: Variation in electrical conductivity with synthesized conducting materials against temperature difference.

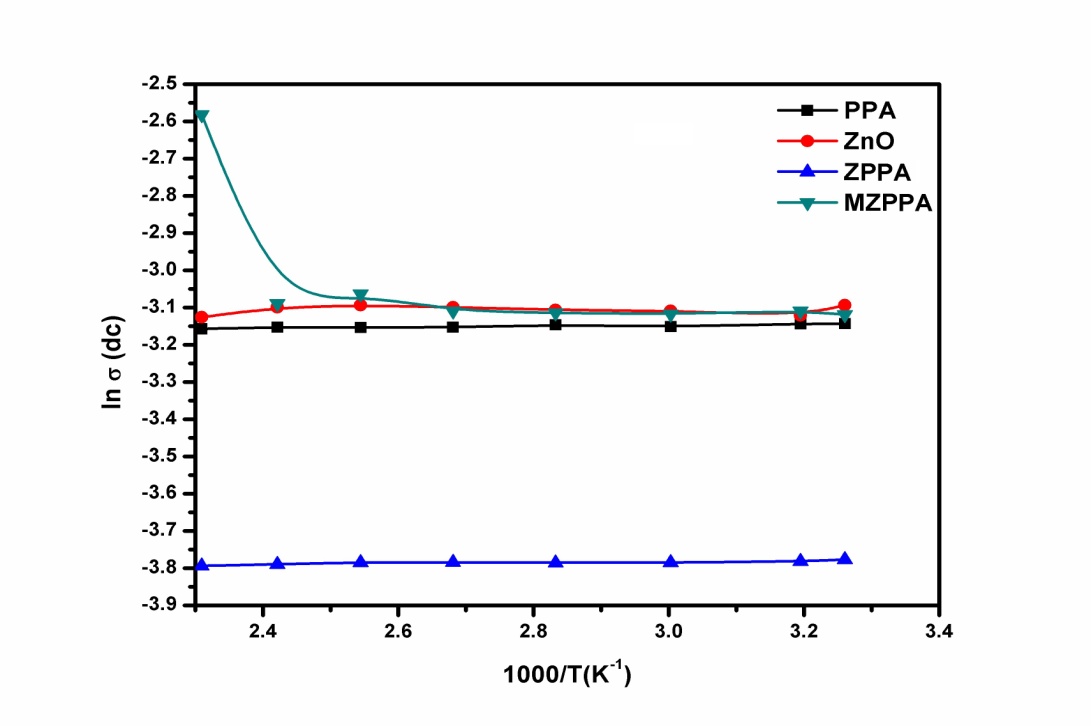


Fig. 7: Arrhenius plot of dc conductivity against difference in temperature.