Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary information

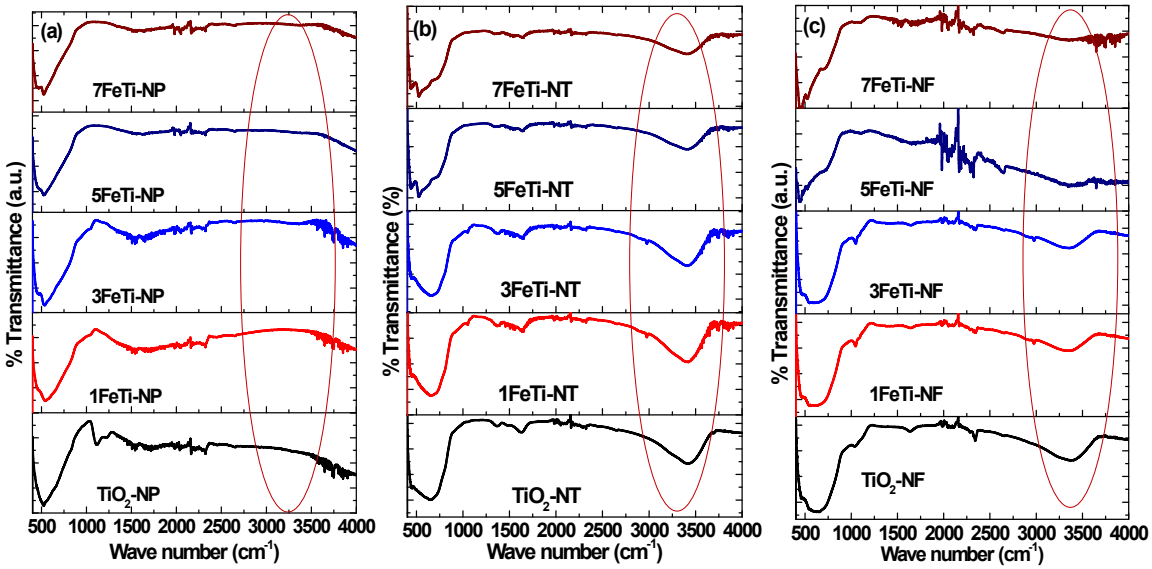

Fig. S1: FTIR spectra of pure and iron supported TiO_2 nanomaterials (a) NP (b) NT and (c) NF

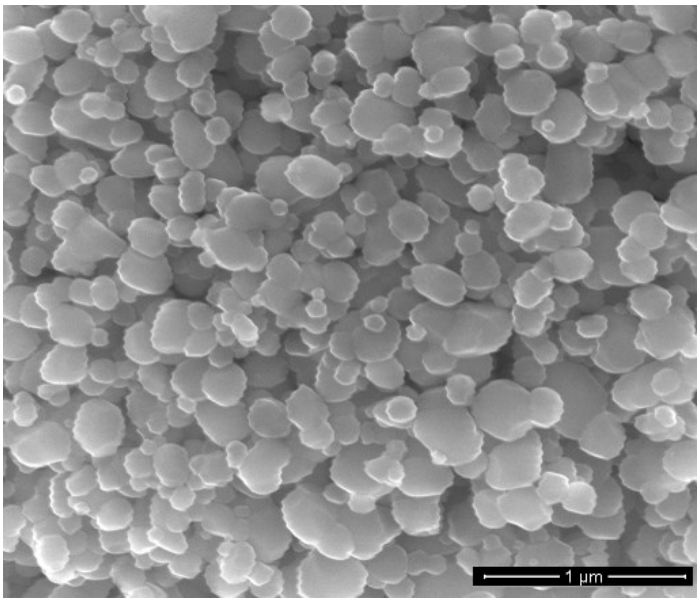

Fig. S2: SEM image of P25 TiO_2 anatase sample

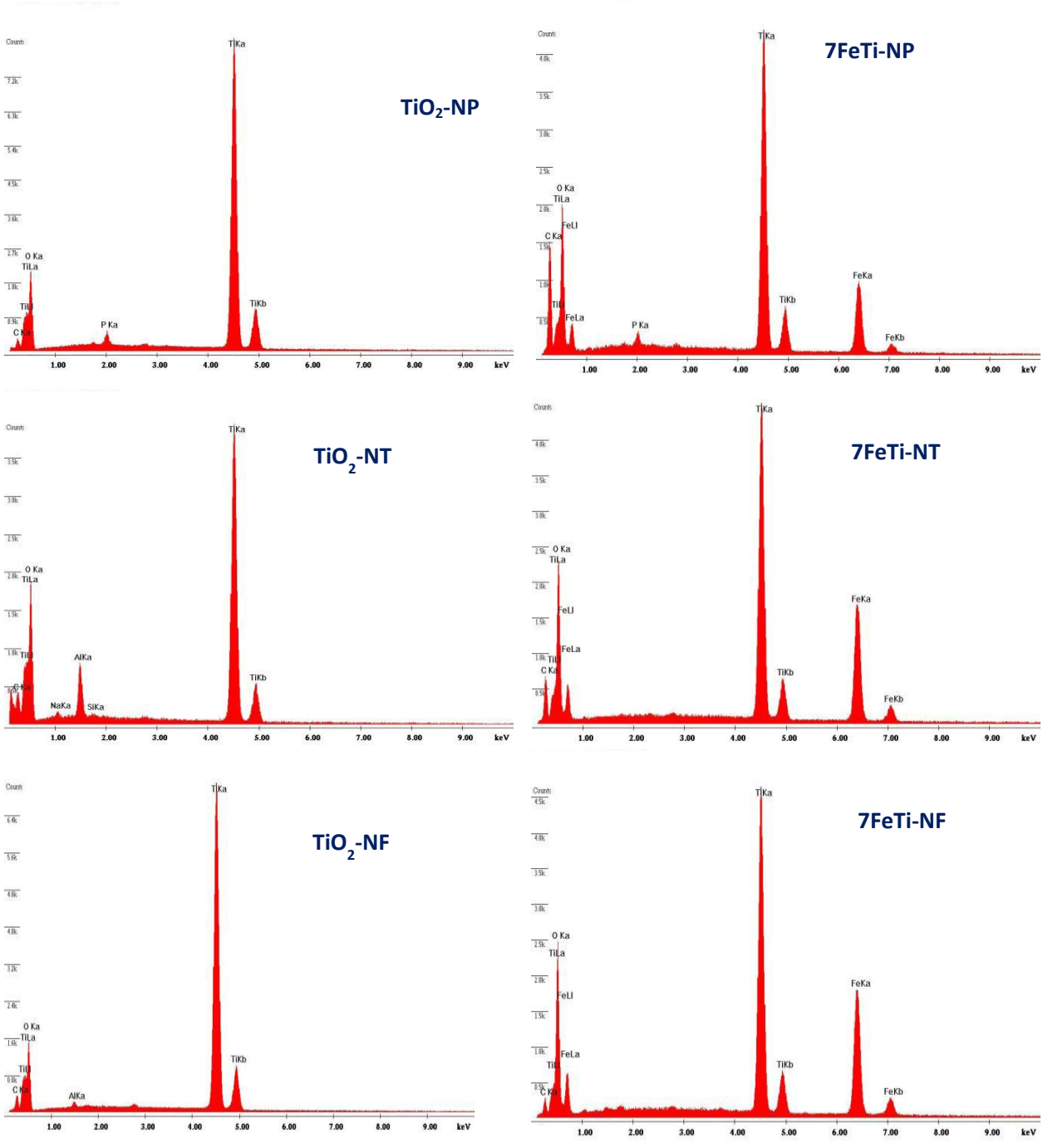

Fig. S3: The energy-dispersive X-ray spectroscopy (EDS) spectra bare and Fe-TiO_2 nanomaterials

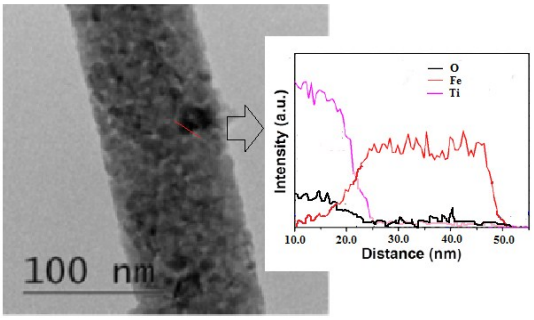

Fig S4: EDS line scan spectra of Fe, Ti and O elements for 1FeTi-NF sample

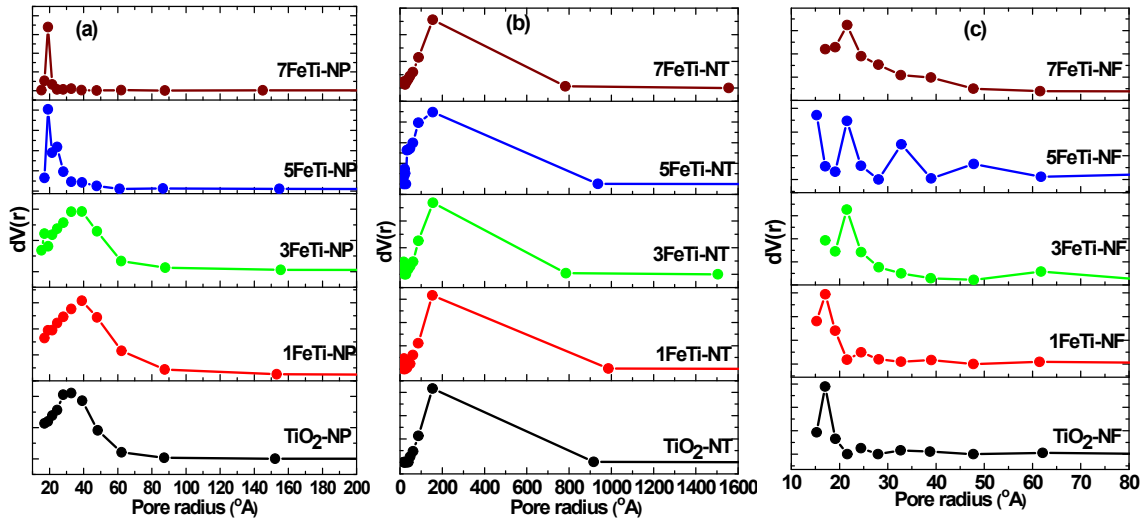

Fig. S5: Pore size distribution patterns of pure and iron oxide supported TiO_2 (a) NP (b) NT and (c) NF samples

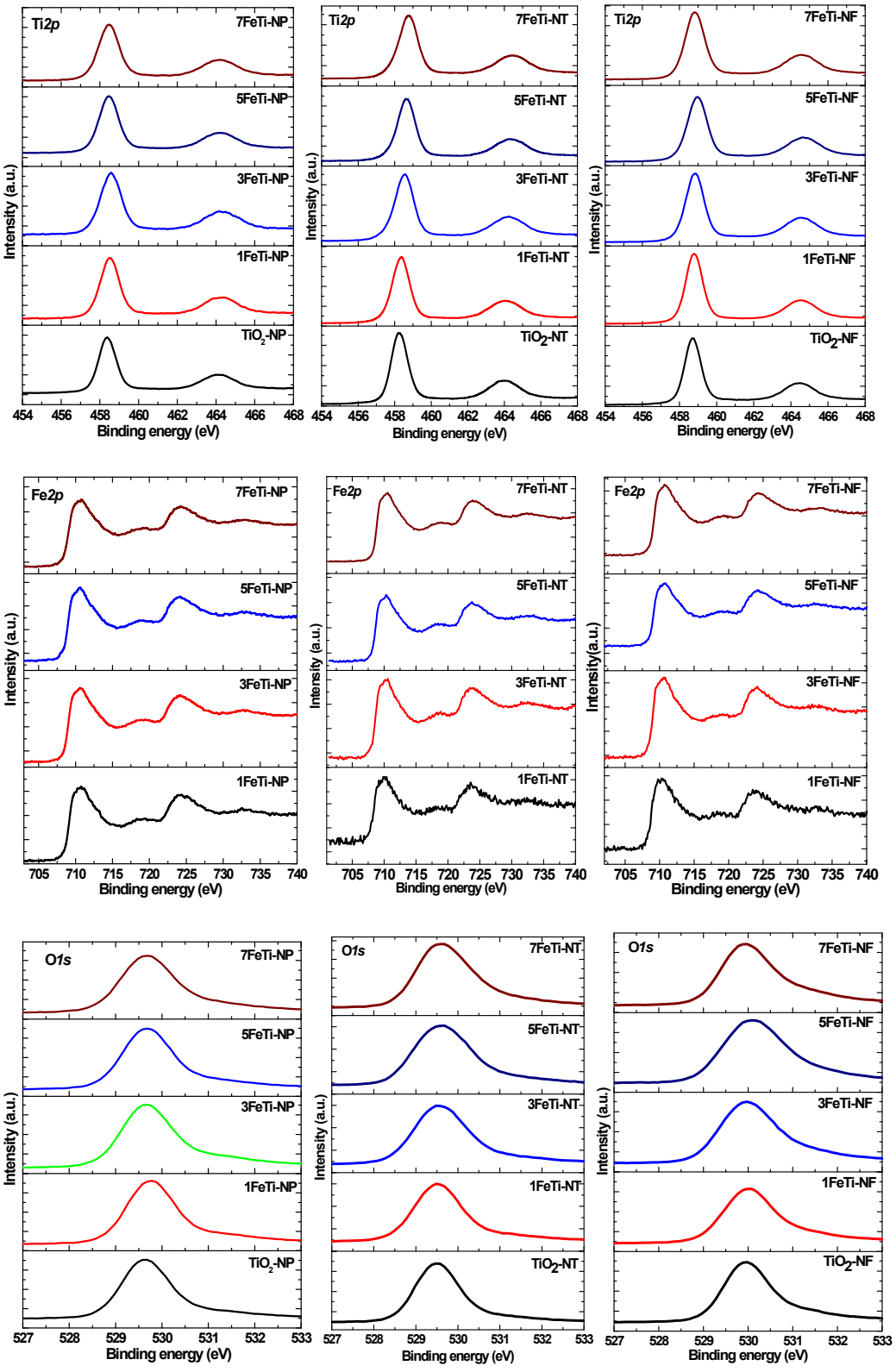

Fig. S6: The core XPS Ti*2p*, Fe*2p* and O *1s* spectra of 7FeTi-NP, NF and NT samples

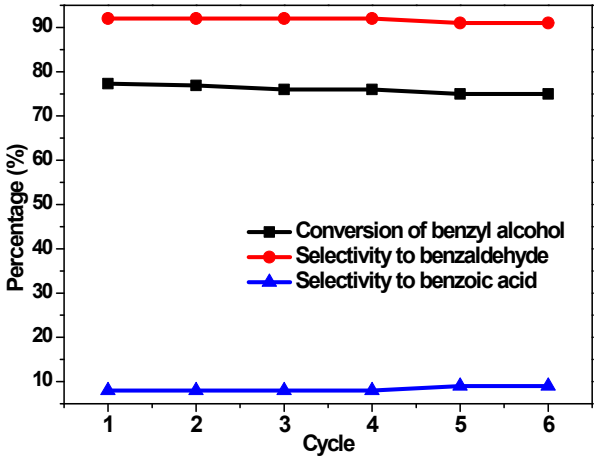

Fig.S7: Reusability of 3FeTi-NP catalyst for benzyl alcohol oxidation; Reaction conditions: H_2O_2-60 mmol, Benzyl Alcohol-50 mmol, catalyst weight 0.05 g, Temp-90 ^oC, Time-6h

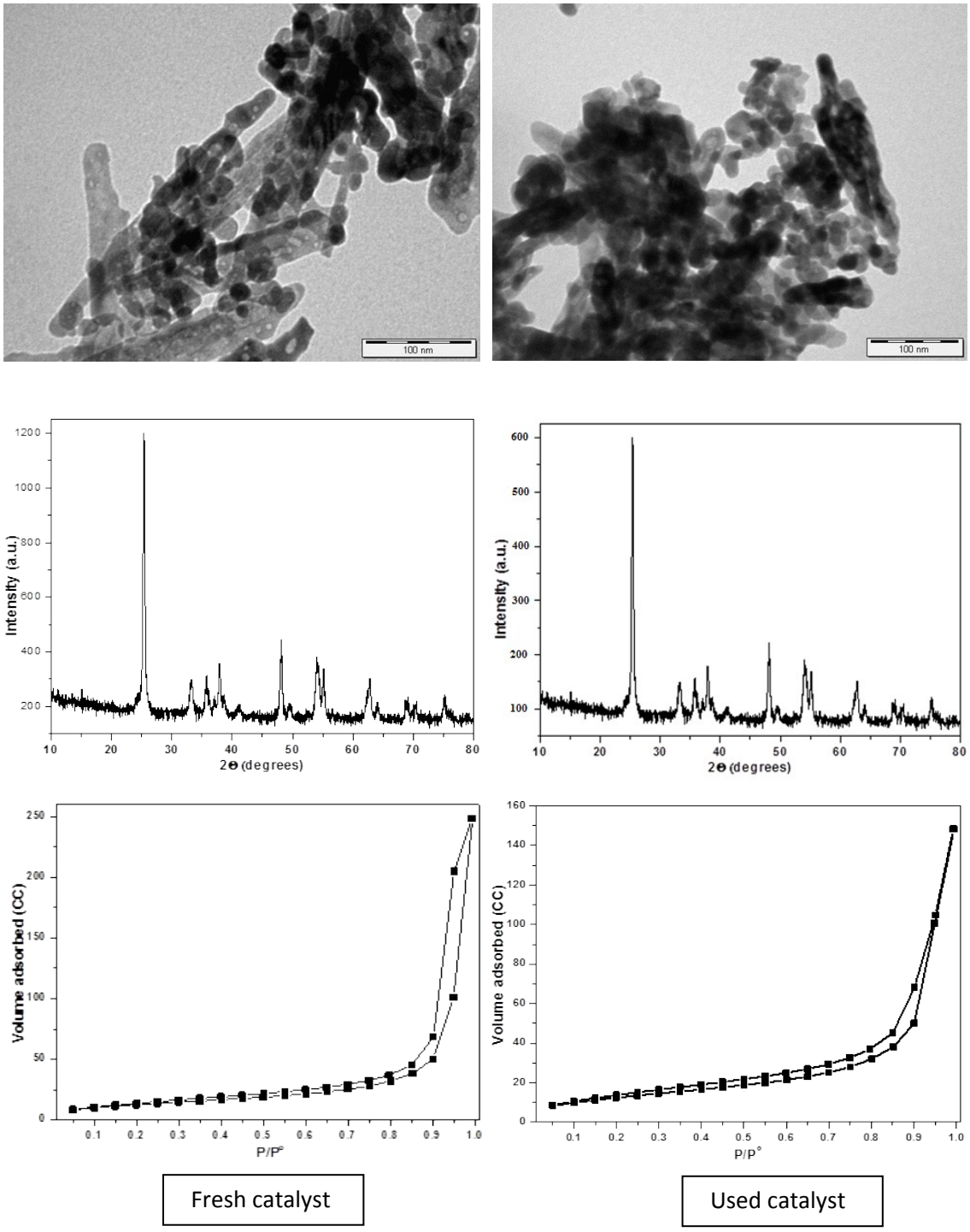

Fig S8: TEM, XRD and N_2-isotherm results for fresh and used 7FeTi-NT samples