Multi element doped Type-II heterostructure assemblies (N, S-TiO_2/ZnO) for electrochemical crystal violet dye degradation

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Supplementary Information

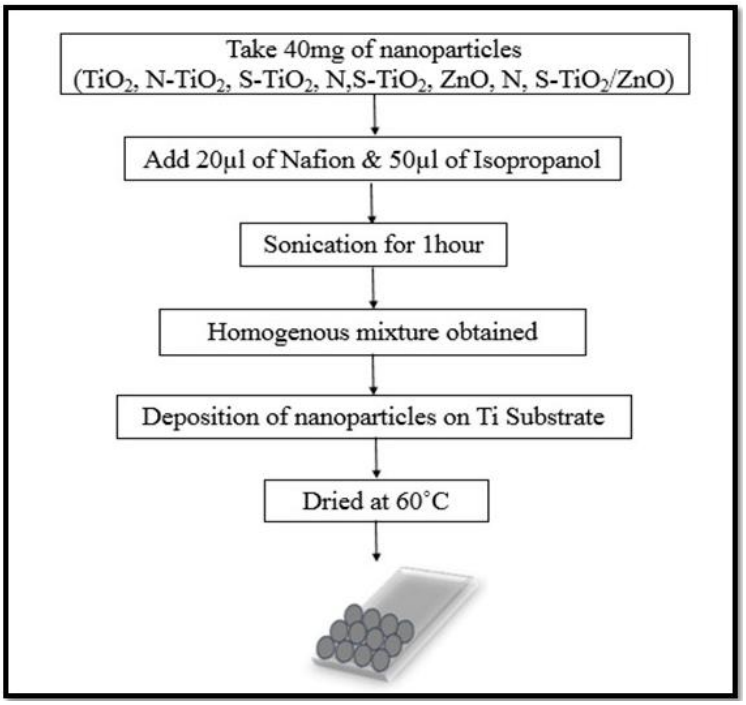

Fig. 1*. Schematic representation of electrode fabrication.

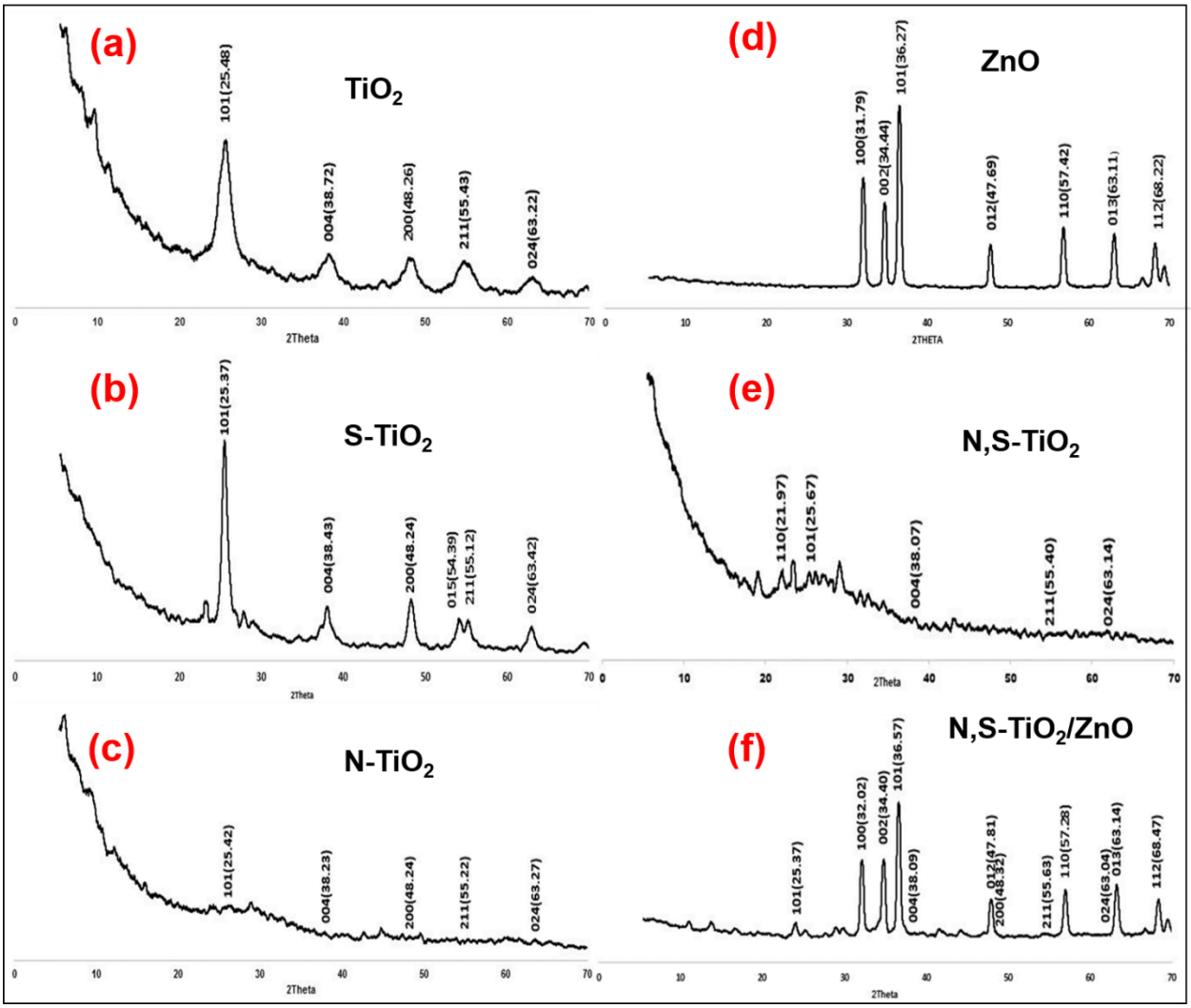

Fig. 2*. XRD spectra of a) TiO_2, b) S-TiO_2, c) N-TiO_2, d) ZnO, e) N, S-TiO_2 and f) N, S-TiO_2/ZnO.

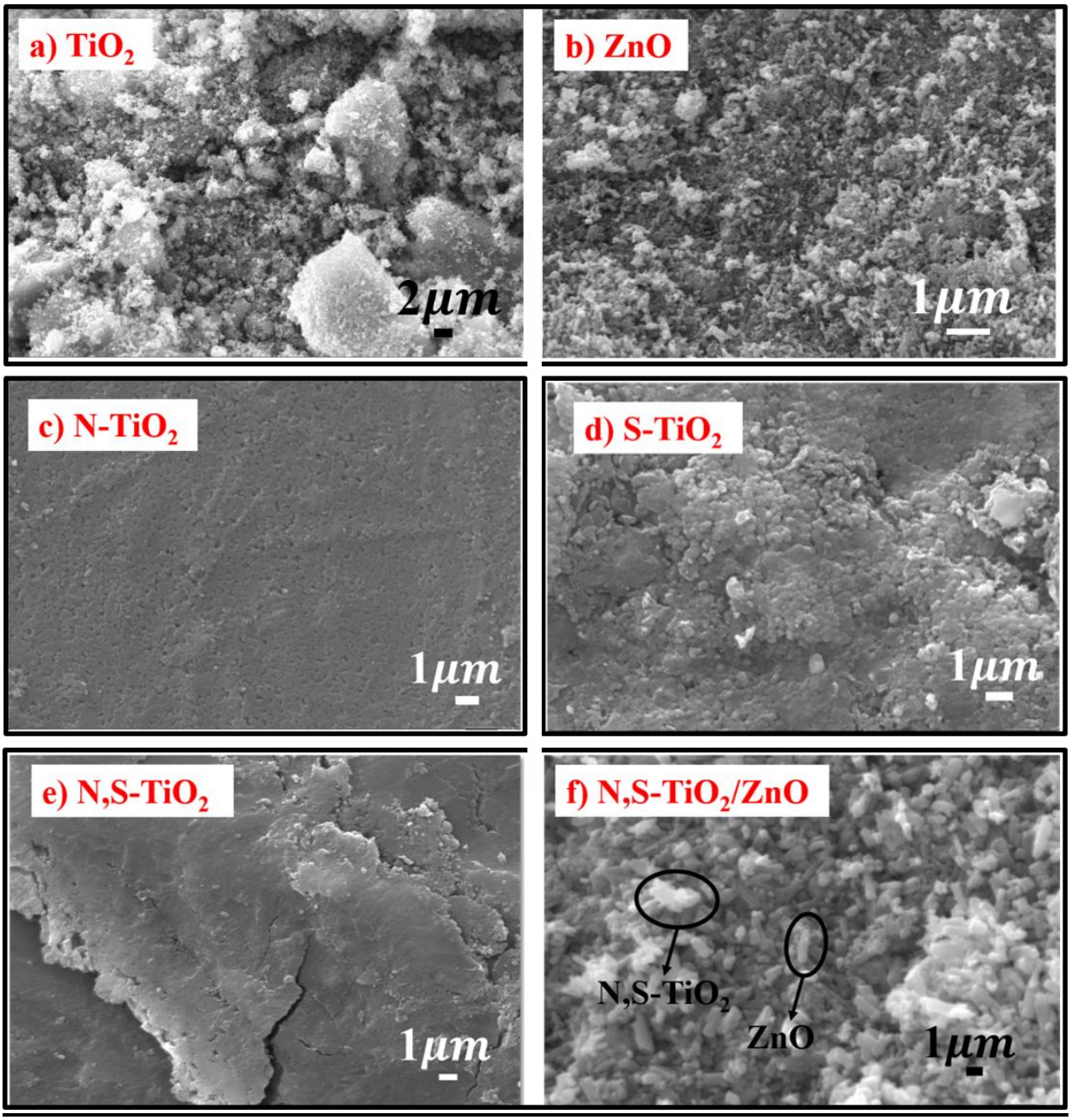

Fig. 3*. SEM images of a) TiO_2, b) ZnO, c) N-TiO_2, d) S-TiO_2, e) N, S-TiO_2 and f) N, S-TiO_2/ZnO.

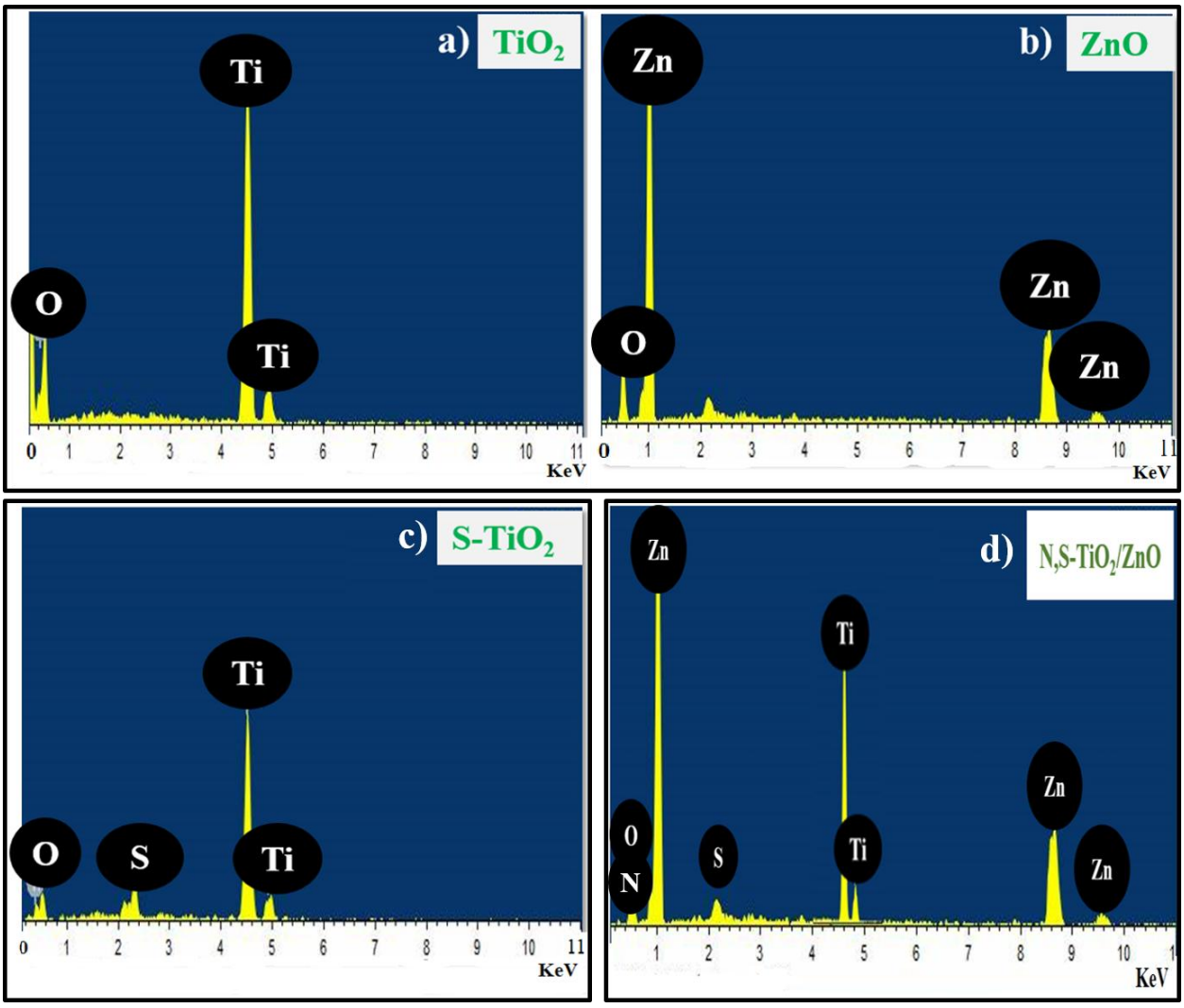

Fig. 4*. EDAX images of a) TiO_2, b) ZnO, c) S-TiO_2, d) N, S-TiO_2/ZnO.

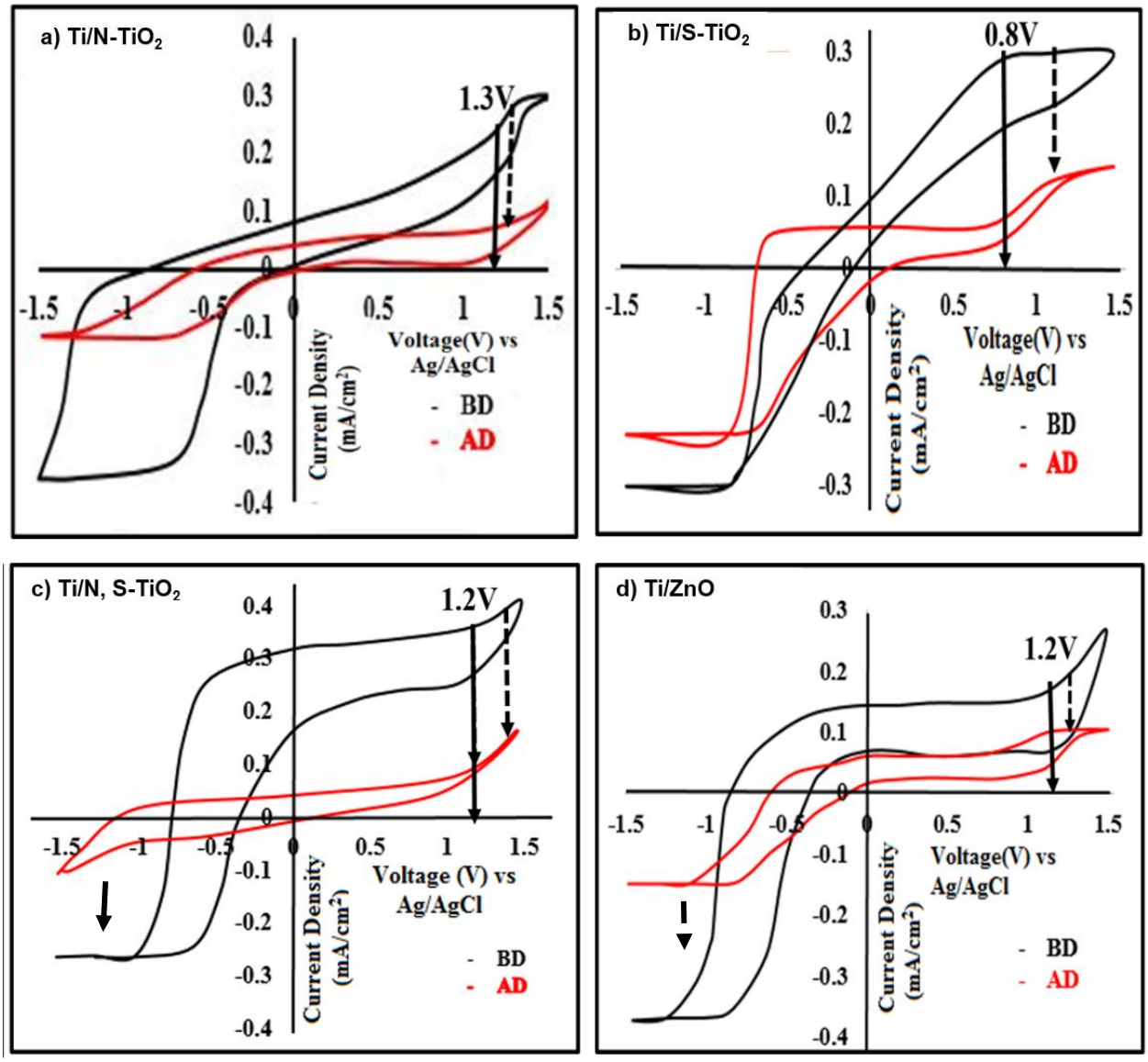

Fig. 5*. Voltammetric (CV) plots of a) Ti/N-TiO_2, b) Ti/S-TiO_2, c) Ti/N, S-TiO_2, d) Ti/ZnO, where BD- Before Degradation AD-After Degradation and

- Indicates Voltage where Oxidation Peak Rises - Indicates Decrease in Peak Current.

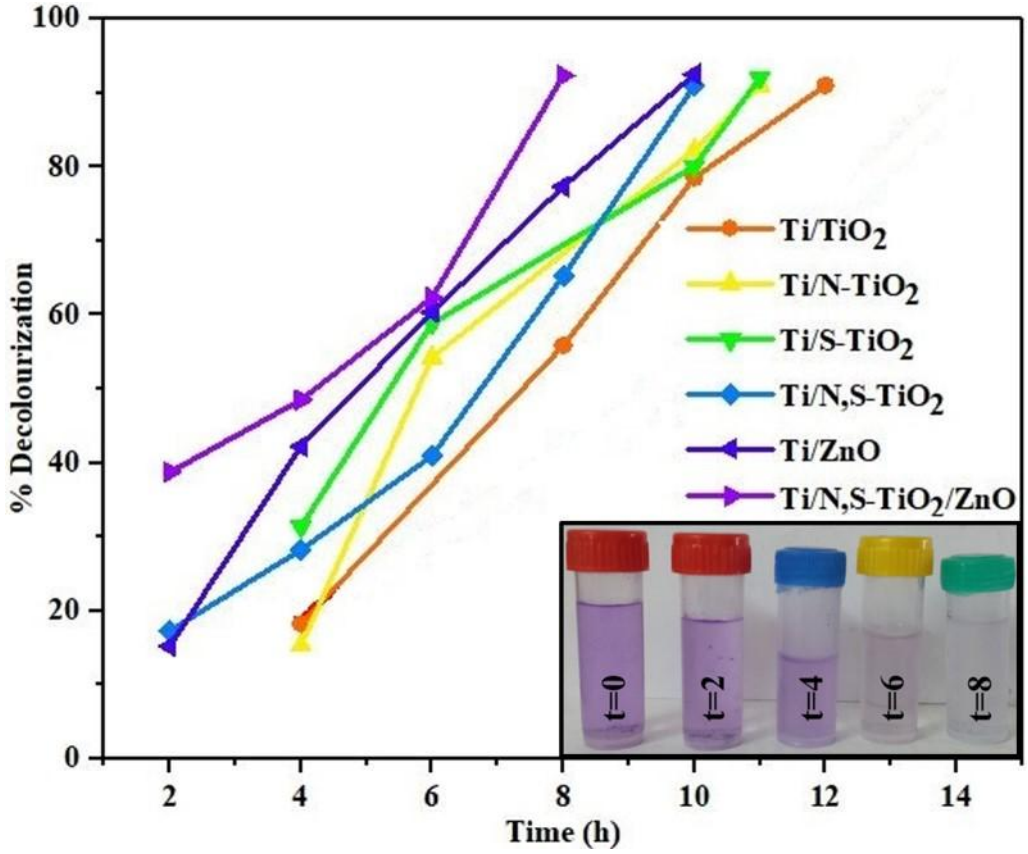

Fig. 6*. % Decolourization Vs Time plots for all prepared samples (inset images shows the degradation color of samples at different time intervals).