Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary materials

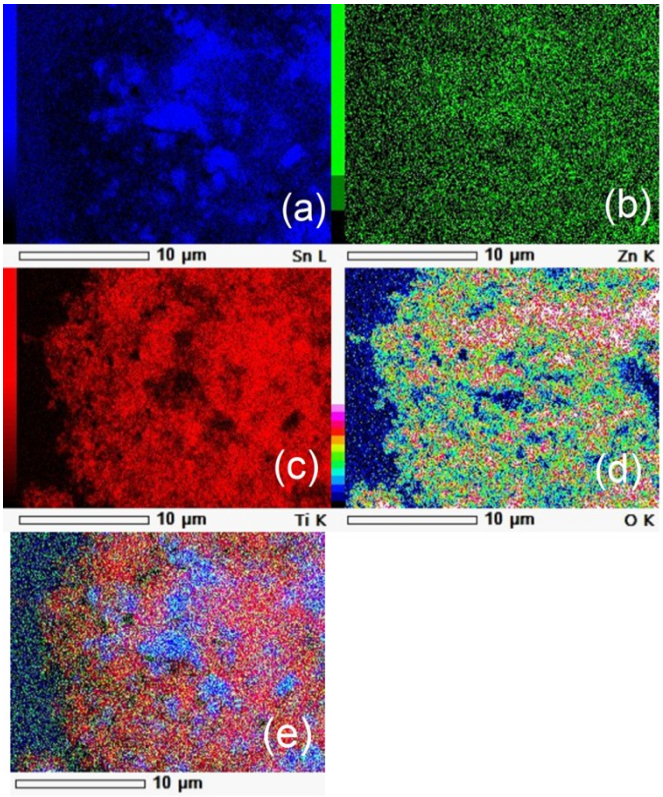

Fig. S1: SEM-EDS mapping of $SnO_2 \cdot ZnO \cdot TiO_2$nanocomposites

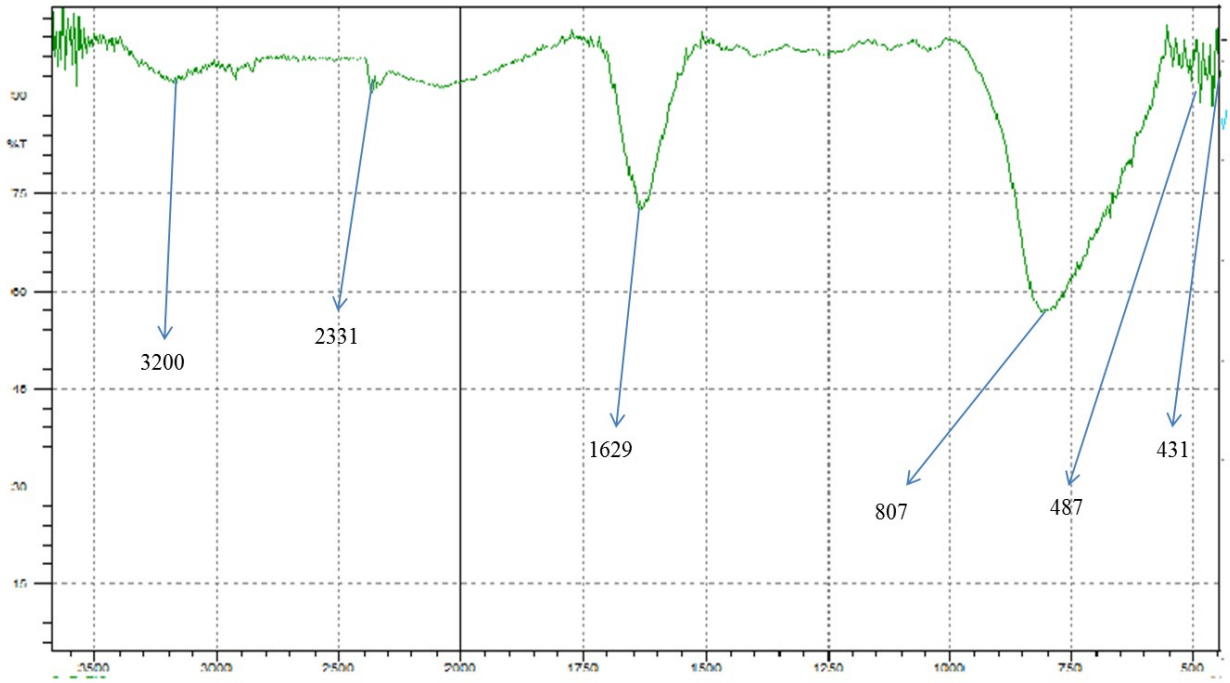

Fig. S2: FTIR spectra of $SnO{\cdot}ZnO{\cdot}TiO_2$ tri-metallic nanoparticles heated at 650 ˚C

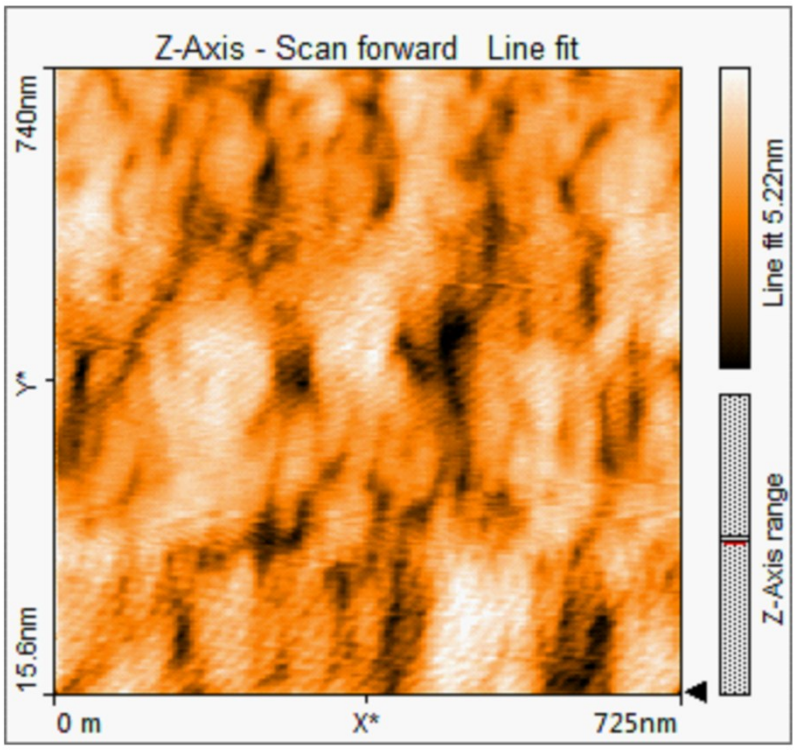

Fig. S3: 2D topological AFM image analysis of $SnO{\cdot}ZnO{\cdot}TiO_2$ nanocomposite film on glass surface

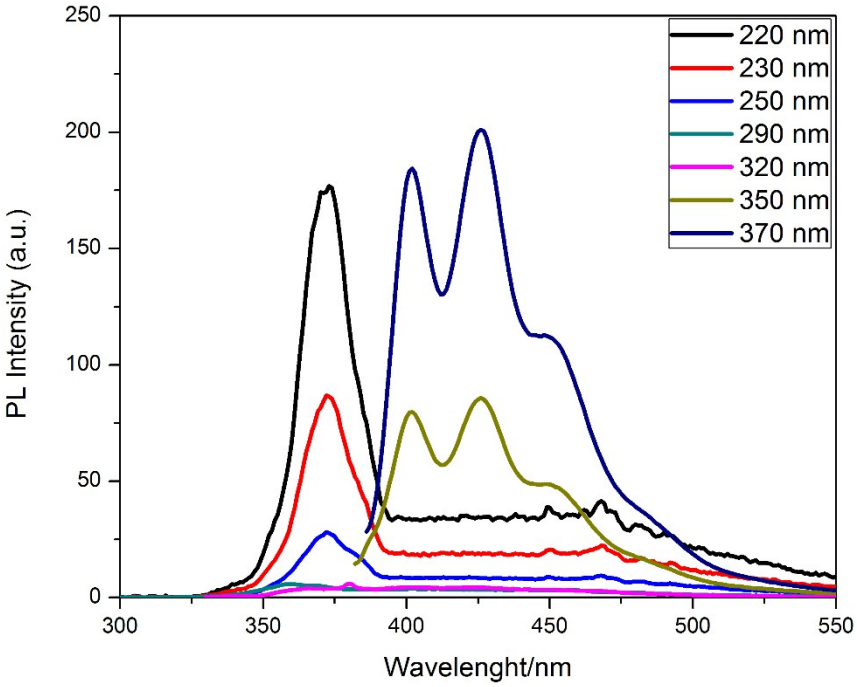

Fig. S4: PL spectra of SnO·ZnO·TiO_2nanocomposites

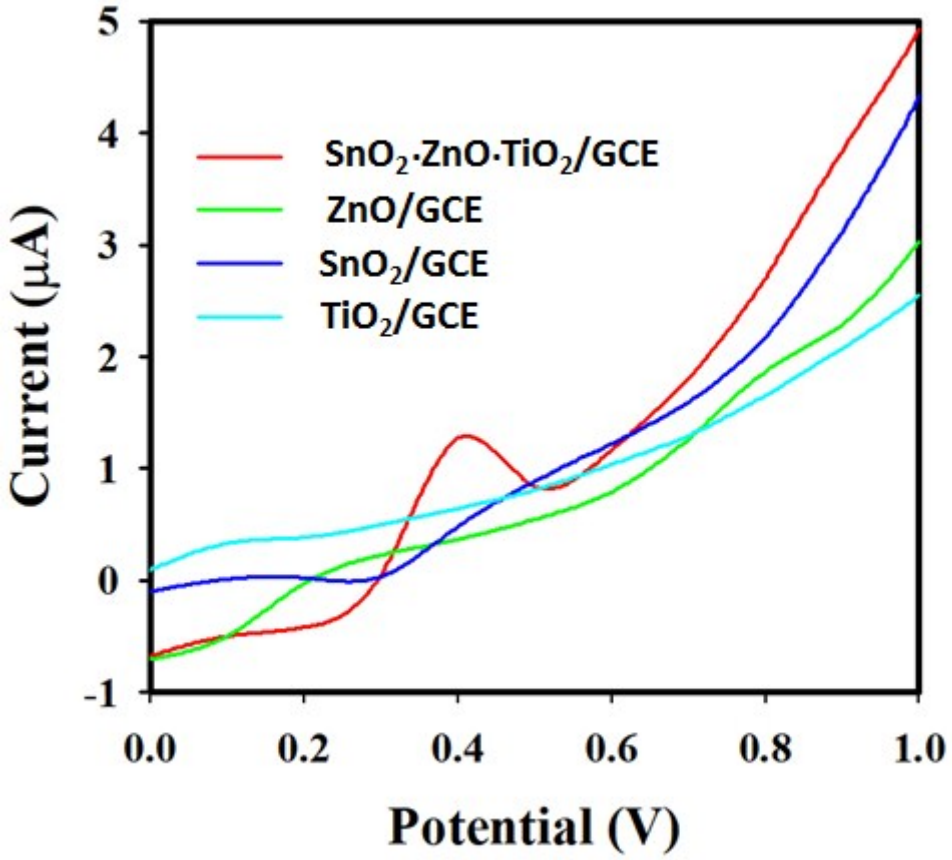

Fig. S5. Control experiment: Comparative study of single oxides with the $SnO_2 \cdot ZnO \cdot TiO_2$ nanocomposites/Nafion/GCE fabricated electrodes under identical conditions.

Table S1: EDS data of $SnO_2 \cdot ZnO \cdot TiO_2$nanocomposite

Element	(keV)	Mass%	Atom%
O K	0.525	33.38	69.16
Ti K	4.508	29.1	20.13
Zn K	8.63	1	0.51
Sn L	3.442	36.52	10.2
Total		100	100