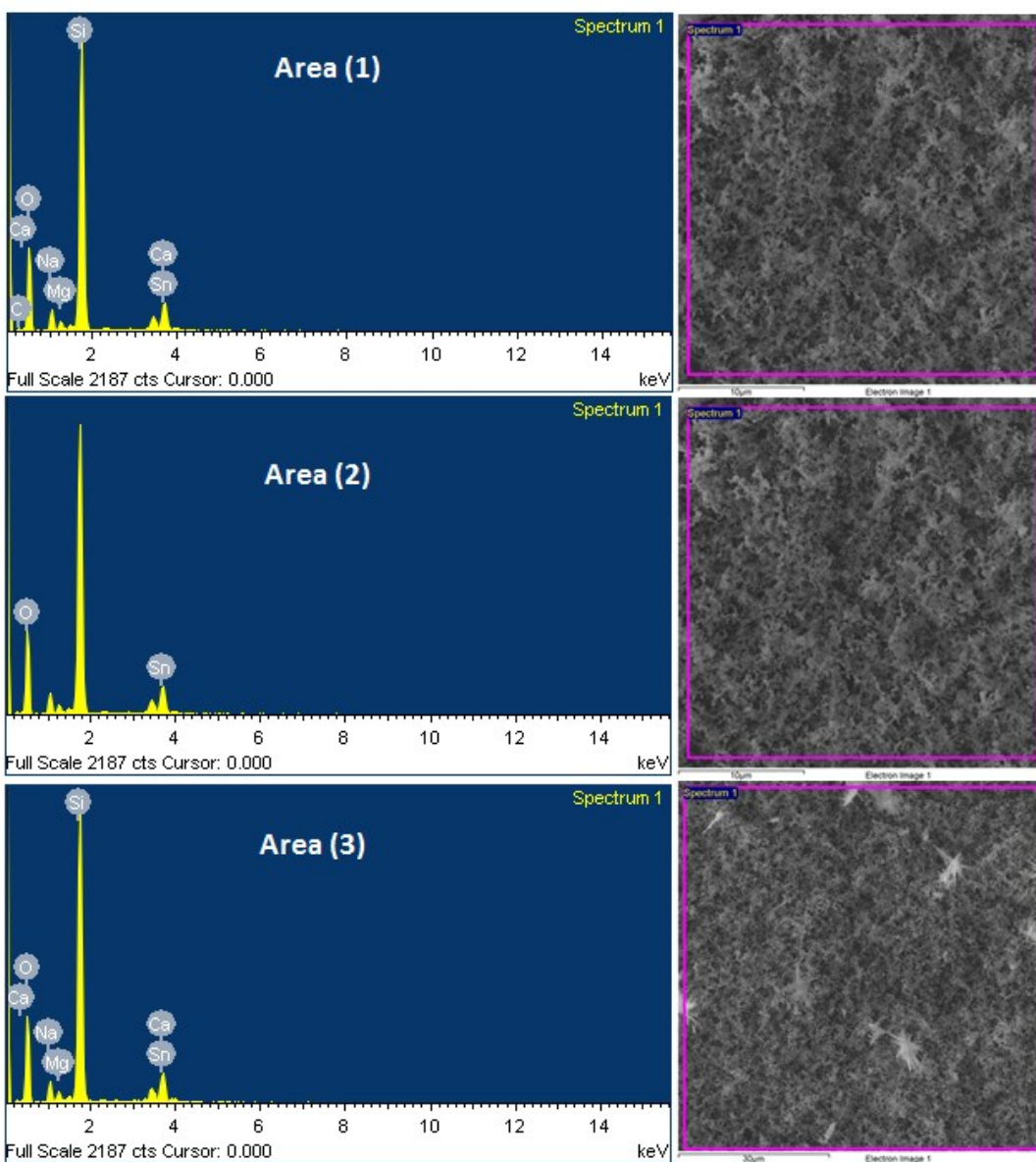
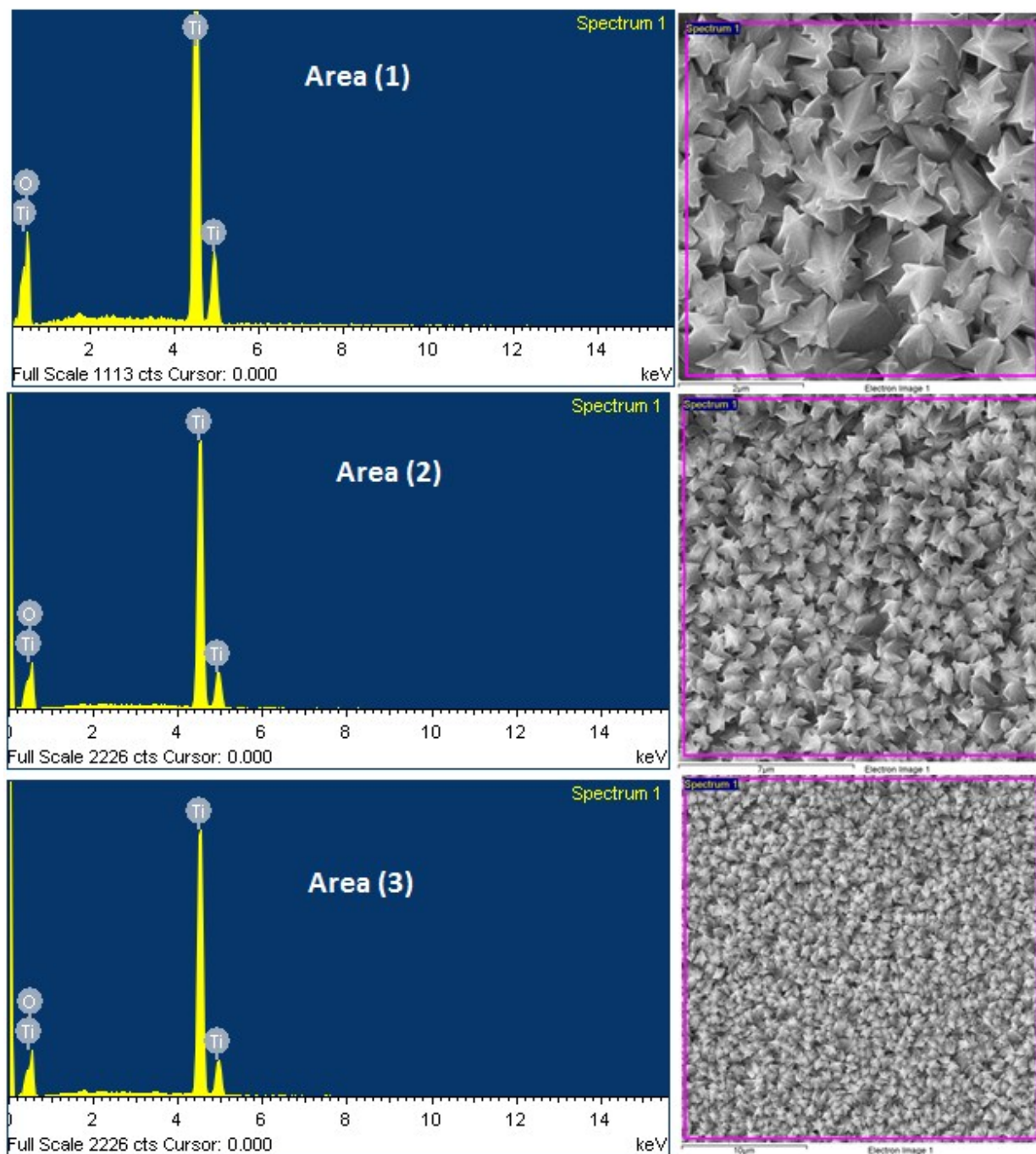


Electronic Supplementary Materials

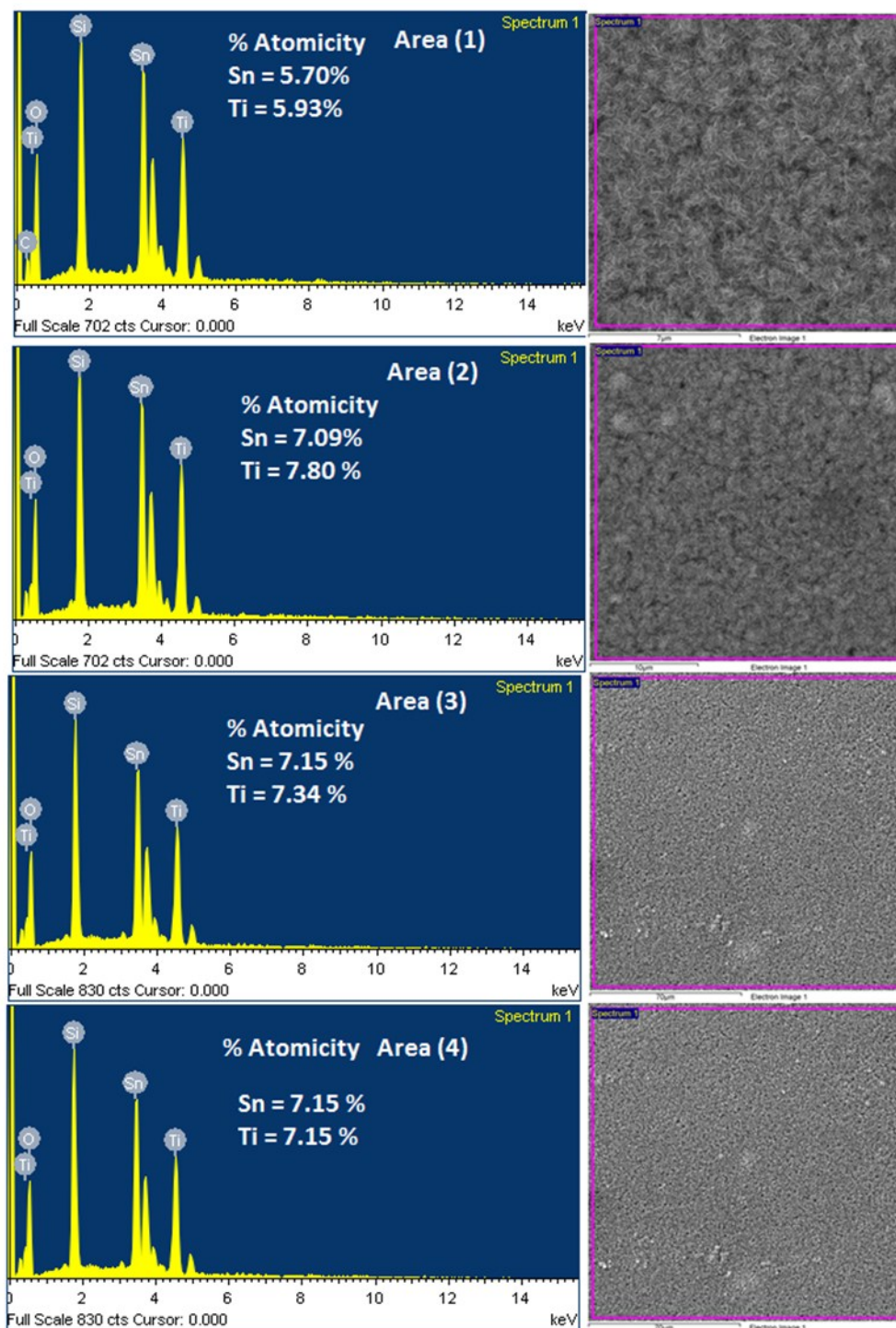
Single step aerosol assisted chemical vapor deposition of p-n Sn(II)oxide-Ti(IV)oxide nanocomposite thin film electrodes for investigation of photoelectrochemical properties



SI Fig. 1a: EDX spectra recorded from different areas of pristine SnO film deposited on plain glass substrate at 450 °C.



SI Fig. 1b: EDX spectra recorded from different areas of pristine TiO₂ film deposited on plain glass substrate at 450 °C.



SI Fig. 1c: EDX spectra recorded from different areas of SnO-TiO₂ film deposited on plain glass substrate at 450 °C.

SI Table 1: Photoelectrochemical performance of Sn–Ti–O based anode nanomaterials.

Sn-Ti oxide photo catalyst	Max. Photocurrent density (mAcm ⁻²)	Potential range (V)	References
TiO ₂ /SnO ₂ hierarchical branched nanowires	0.068	-1.0 to +1.0	¹
TiO ₂ /SnO ₂ nanotubes	0.7	-1.0 to +1.0	²
Sn- doped TiO ₂	1.85	-1.0 to + 0.4	³
SnO ₂ –TiO ₂ nanotube	0.0754	-1.0 to +1.0	⁴
SnO-TiO ₂	4.3	-0.4 to +0.7	Current work

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