Electronic Supplementary Material (ESI) for Dalton Transactions.

La_2O_3-encapsulated-SnO_2 nanocrystallite-based photoanodes for enhanced DSSCs performance

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Supporting information

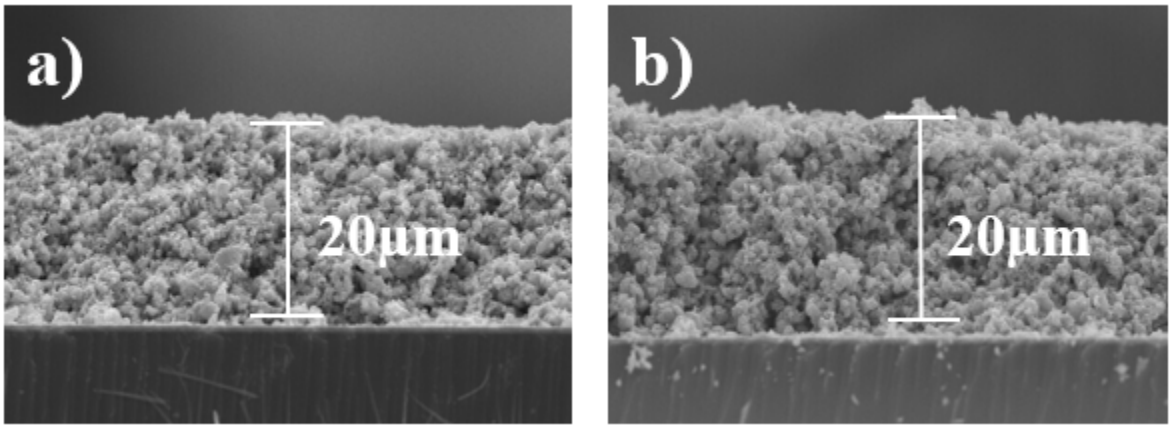

Figure S1: Cross-section images electrodes of; a) SnO_2 and SnO_2- La_2O_3 electrodes.

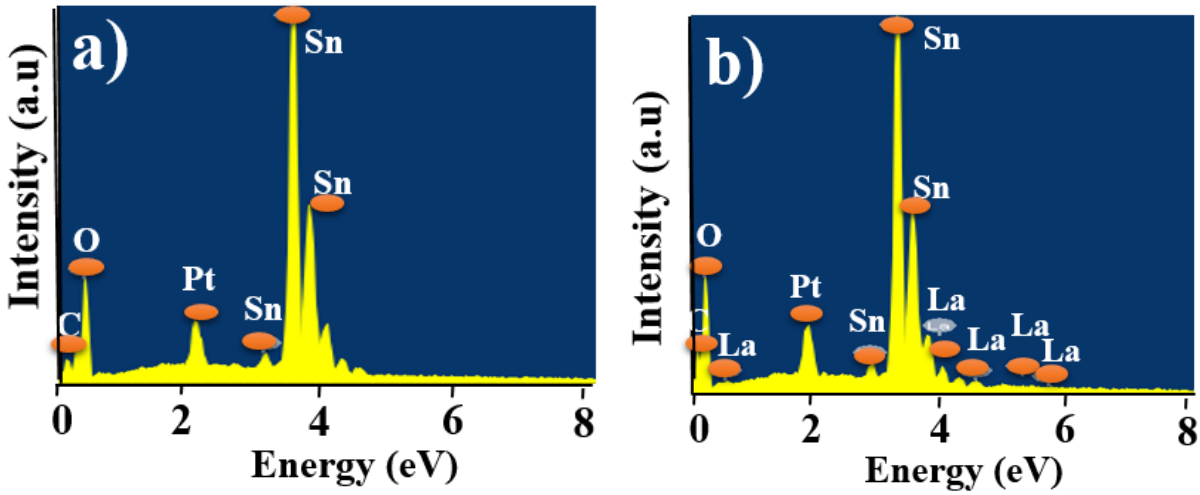

Figure S2: EDX analysis of; a) SnO_2 and SnO_2- La_2O_3. Platinum peak occurrence was unprecedented in present study.

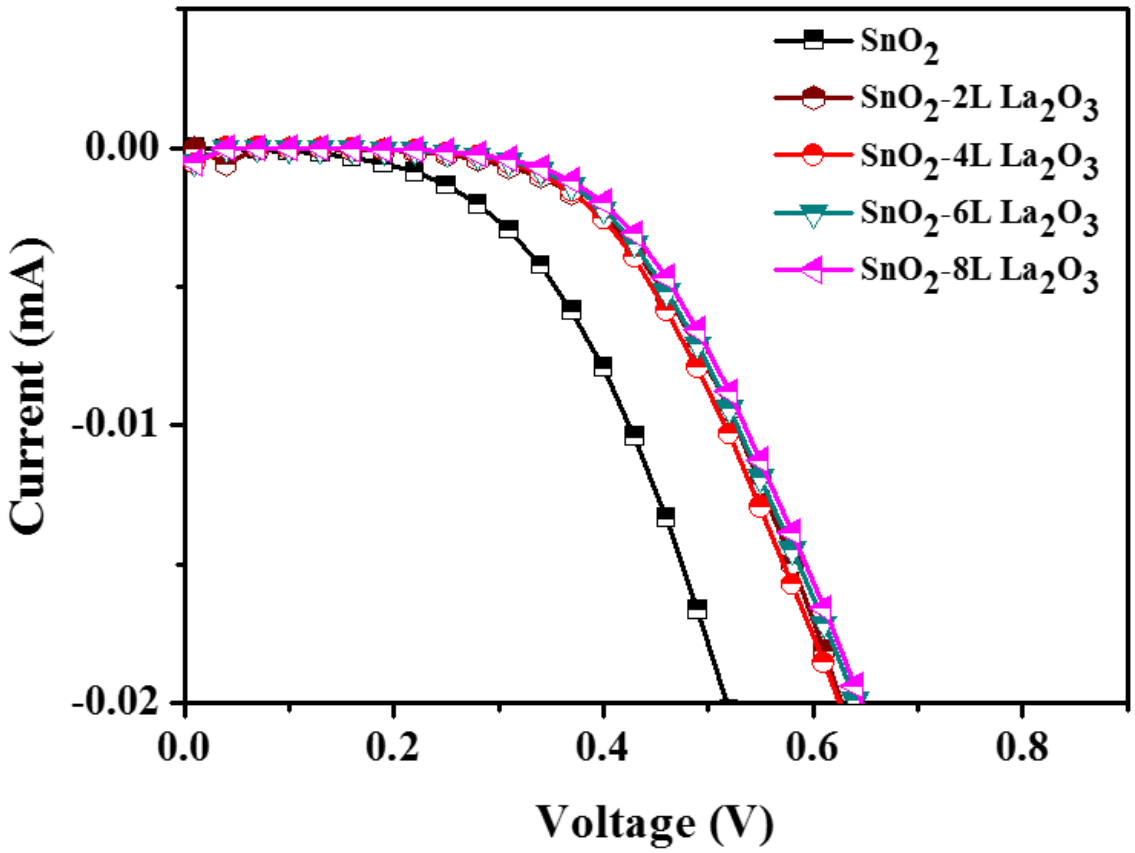

Figure S3: Dark Current *J-V* plots of SnO_2 and SnO_2-La_2O_3 photoanodes under dark as a function spin-coating layer.

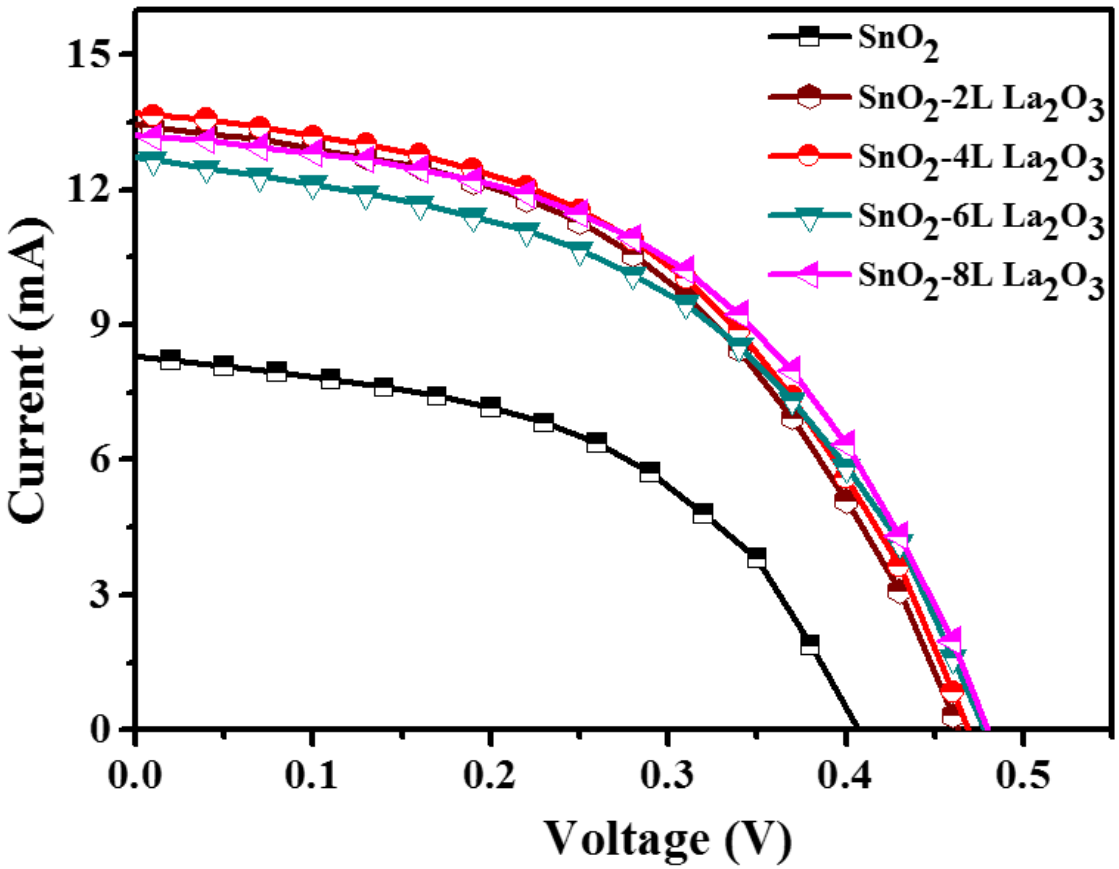

Figure S4- J-V curves of SnO_2 and SnO_2-La_2O_3 photoanodes under light as a function spin-coating layer.

Table S1: Change in photovoltaic parameters of SnO_2-based DSSCs as a function of La_2O_3 layering number.

Photoanode	J_{sc} (mA cm^{-2})	V_{oc} (V)	FF	η (%)
SnO_2	8.30	0.40	0.49	1.66
SnO_2-2L La_2O_3	13.42	0.46	0.48	2.98
SnO_2-4L La_2O_3	13.61	0.46	0.48	3.0
SnO_2-6L La_2O_3	13.21	0.47	0.50	3.0
SnO_2-8L La_2O_3	12.71	0.47	0.48	2.93