Electronic Supporting Information (ESI)

Single step fabrication of CuO-MnO-2TiO$_2$ composite thin films with improved photoelectrochemical response

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Fig. S1  Sticky pattern matching of CuO-MnO-2TiO$_2$ composite thin film with respective standard cards of individual components.

Fig. S2  FESEM surface image of CuO-MnO-2TiO$_2$ composite thin film deposited on FTO glass substrate by AACVD at 550°C for 45 minutes under Ar atmosphere.
**Fig. S3** EDX spectrum recorded from different areas of CuO-MnO-2TiO$_2$ composite thin film deposited on FTO substrate by AACVD at 550°C for 45 minutes under Ar atmosphere.

**Fig. S4** Survey scan XPS spectrum of CuO-MnO-2TiO$_2$ composite thin film.