

Supporting Information for:

**Modelling of an equivalent circuit for $\text{Cu}_2\text{ZnSnS}_4$ - and $\text{Cu}_2\text{ZnSnSe}_4$ -
based thin film solar cells**

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Nyquist plots and fitting results

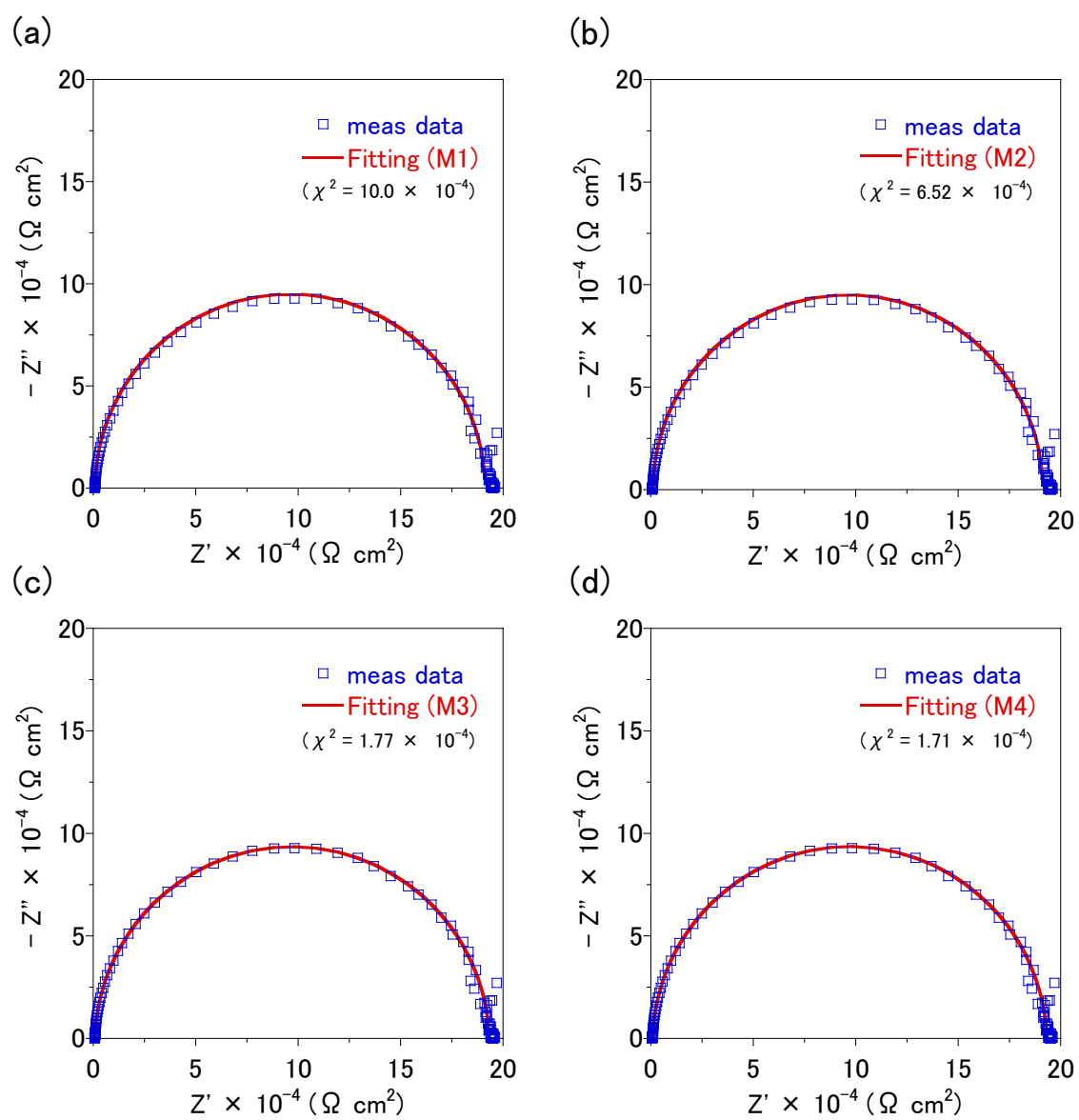


Fig. S1 Nyquist plots and fitting results of CZTS solar cells.

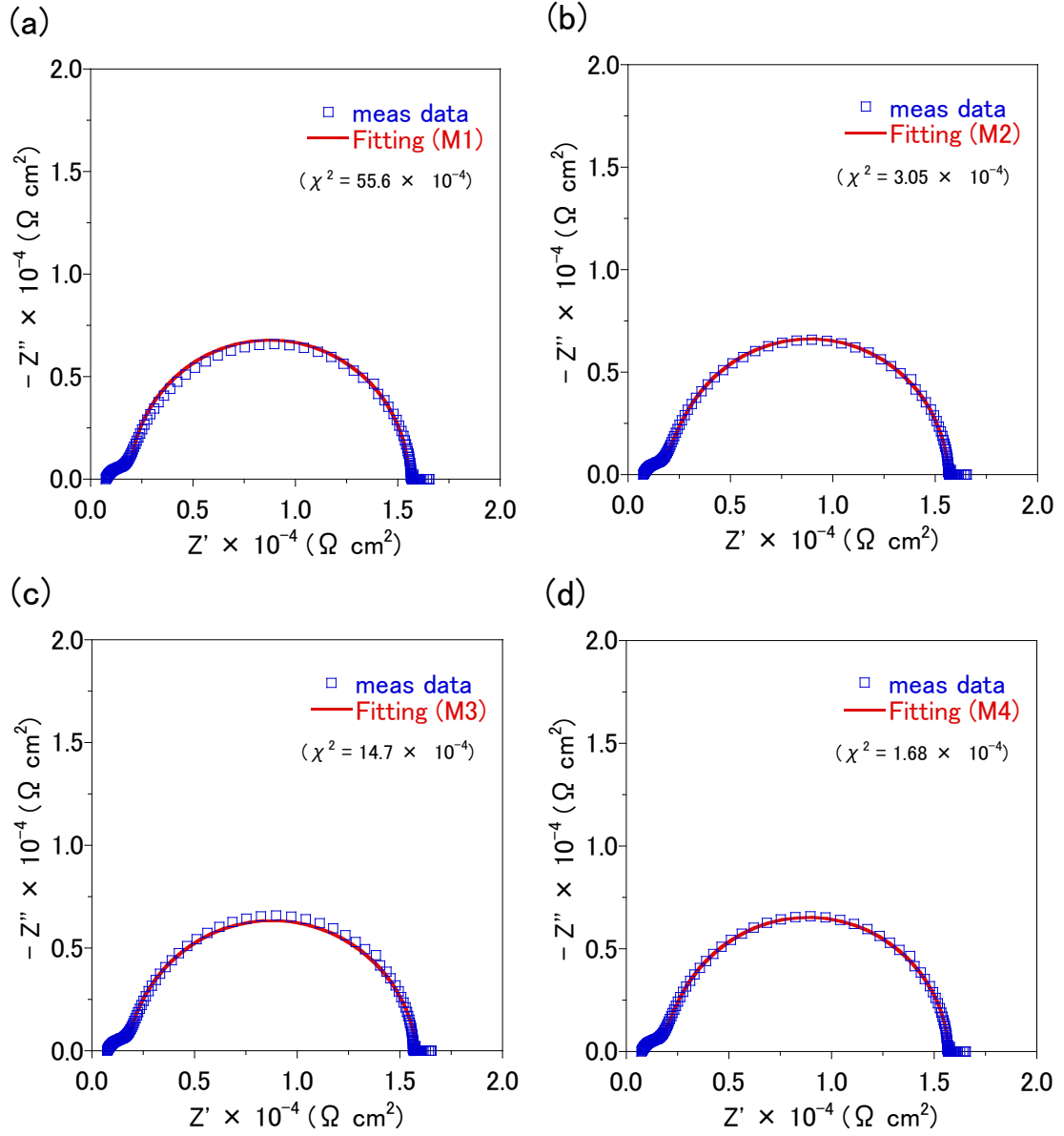


Fig. S2 Nyquist plots and fitting results of CZTSe solar cells.