

**Supplementary information:**

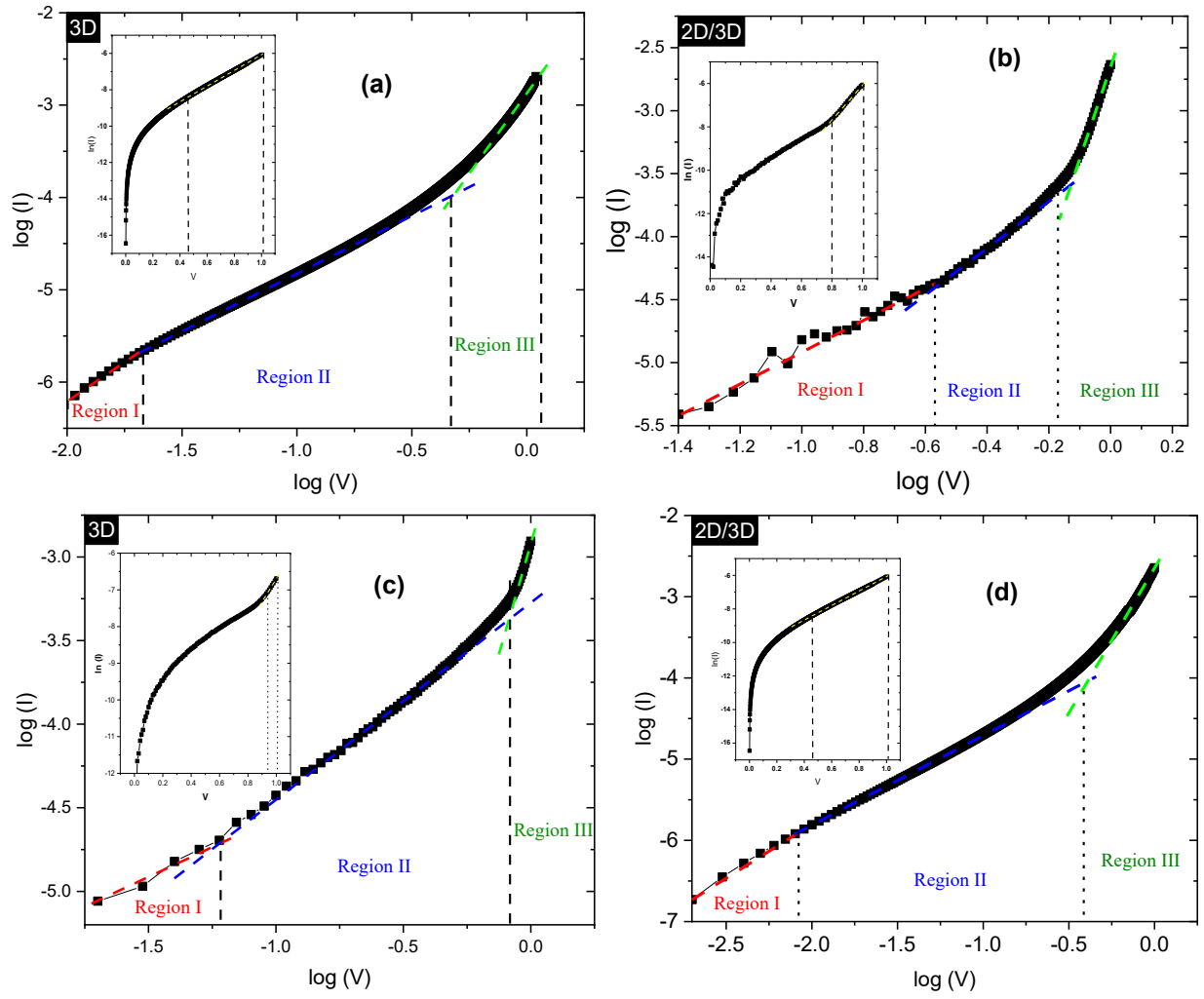
## **Long-term stability analysis of 3D and 2D/3D hybrid perovskite solar cells using electrochemical impedance spectroscopy**

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**Figure S1:** log-log plot of (a, c) 3D and (b, d) 2D/3D samples. (a) and (b) are from measurements taken after 3 months. (c) and (d) are from measurements taken after 24 months.