**Supplementary information:**

**Effect of illumination and applied potential on the electrochemical impedance spectra in triple cation (FA/MA/Cs) 3D and 2D/3D perovskite solar cells**

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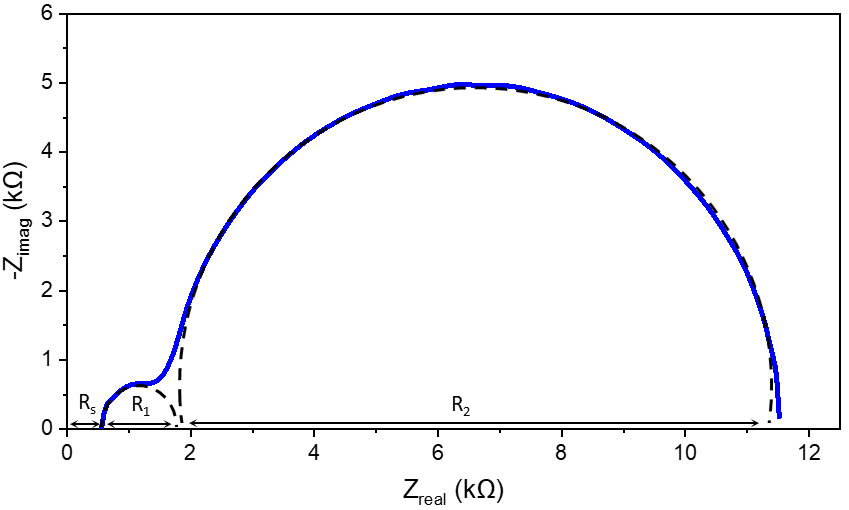
**(d)**

**(c)**

**(b)**

**(a)**

**Figure S1:** Electrochemical impedance spectroscopy of 3D sample at 0.5 V (a) and 1.2 V (b), and 2D/3D sample at 0.5 V (c) and 1.2 V (d) in dark conditions at 10 mV perturbation.



**Figure S2:** Representation of a simplified Nyquist spectrum showing the resistances at the corresponding semicircles (time constants). Here Rs is the series resistance, R1 is the high-frequency charge transfer resistance and R2 is the low-frequency recombination resistance.