

Supporting Information

Charge Transfer Induced Polymerization of EDOT Confined between 2D Titanium Carbide Layers

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To determine the polymer content, we carried out the thermogravimetric analysis (TGA) for pristine $\text{Ti}_3\text{C}_2\text{T}_x$ and $\text{Ti}_3\text{C}_2\text{T}_x/\text{PEDOT}$ hybrid as shown in Figure S1. We set 450 °C as the cut-off temperature, as the burning of MXene and its hybrids beyond this temperature leads to oxidation of $\text{Ti}_3\text{C}_2\text{T}_x$ which, in turn, increases the sample weight. The weight loss in the MXene TGA curve is due to the trapped water between the layers.

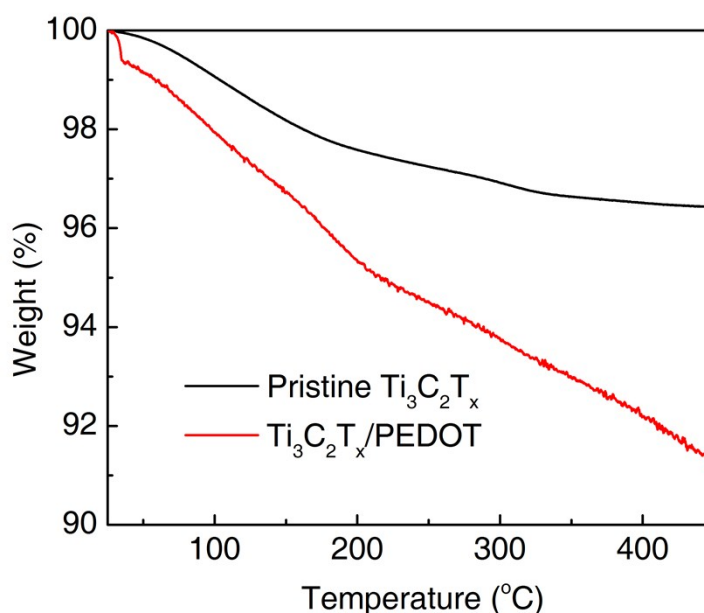


Figure S1: Thermogravimetric analysis for pristine $\text{Ti}_3\text{C}_2\text{T}_x$ and $\text{Ti}_3\text{C}_2\text{T}_x/\text{PEDOT}$ hybrid.