

Enhanced Photocurrent Response Speed in Charge-Density-Wave Phase of TiSe₂-Metal Junctions

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S1. Scanning Photocurrent Microscopy under 650nm Wavelength Excitation

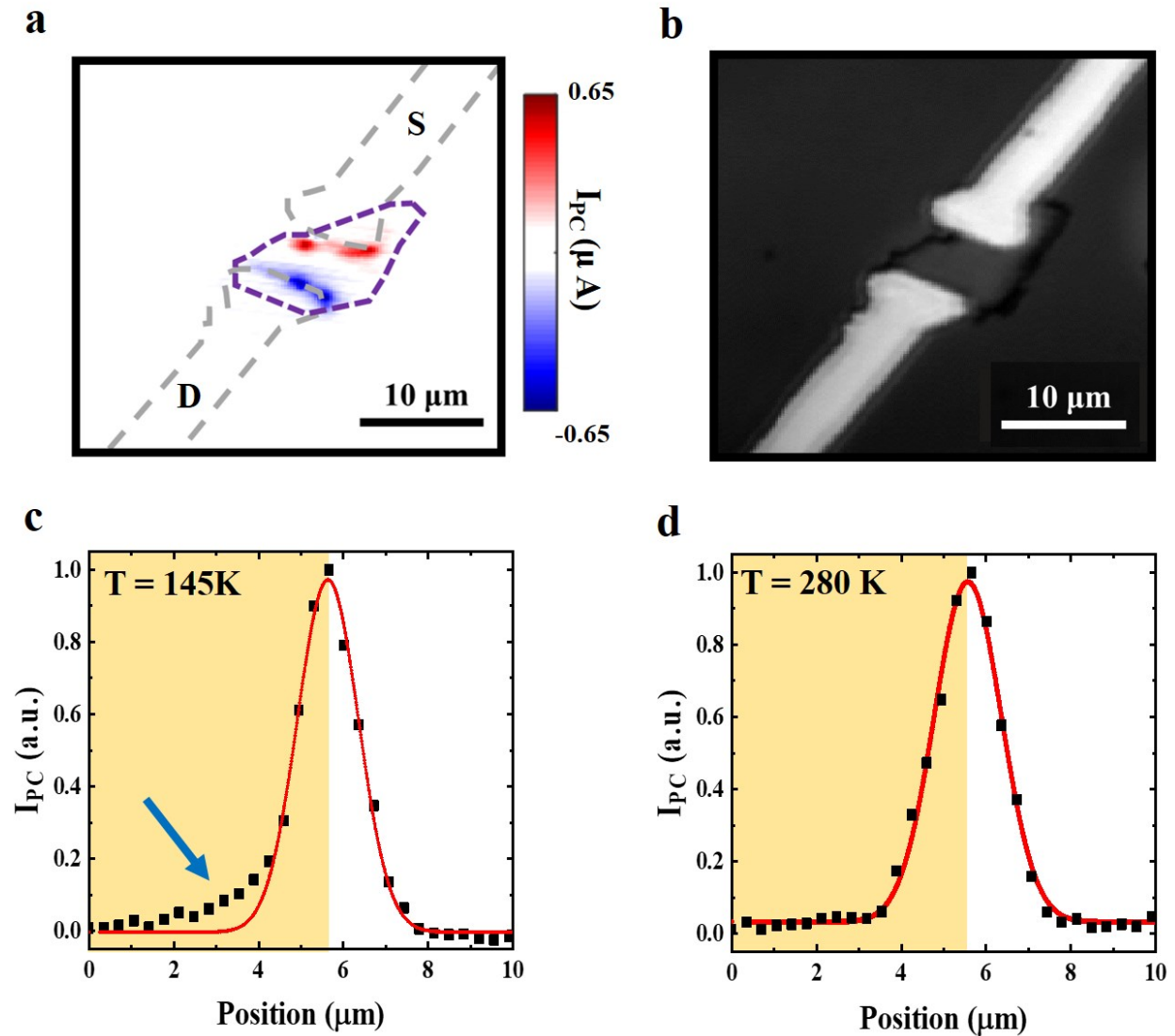


Figure S1. a) Spatially resolved scanning photocurrent and (b) reflection images of the device at 145 K show strong photocurrent responses at the $TiSe_2$ -metal junctions. The power of the 650 nm laser is ~ 0.14 mW. Photocurrent responses across the $TiSe_2$ -metal junction at (c) 145 K and (d) 280 K, respectively. The black dots and red solid curves are experimental data and the related Gaussian fittings, respectively. The photocurrent "tail" on the electrode is highlighted by the blue arrow. The yellow backgrounds represent the positions of the electrodes.