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Supplementary Information



Figure S1. Dependence of the SAW-induced positive current in the dark on applied RF power.



Figure S2. Photoresponsivity and photoswitching stability at different laser power (P_{laser}) with V=0V and $P_{\text{SAW}}=21$ dBm.



Figure S3. Dependence of the device photocurrent on applied optical power (P_{laser}).