

## Supplementary Information for

# Synaptic Transistors Based on Tyrosine-Rich Peptide for Neuromorphic Computing

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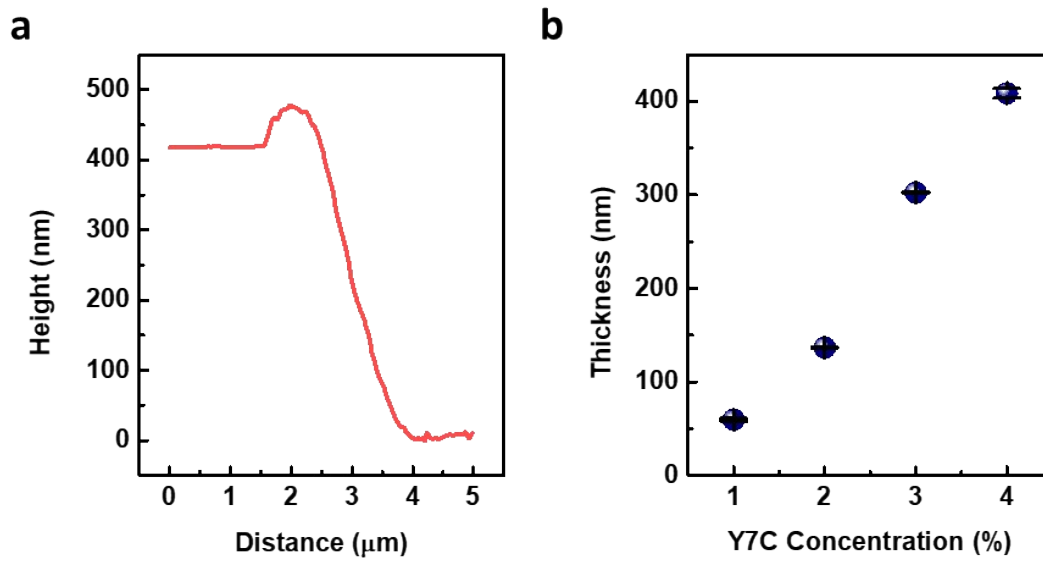
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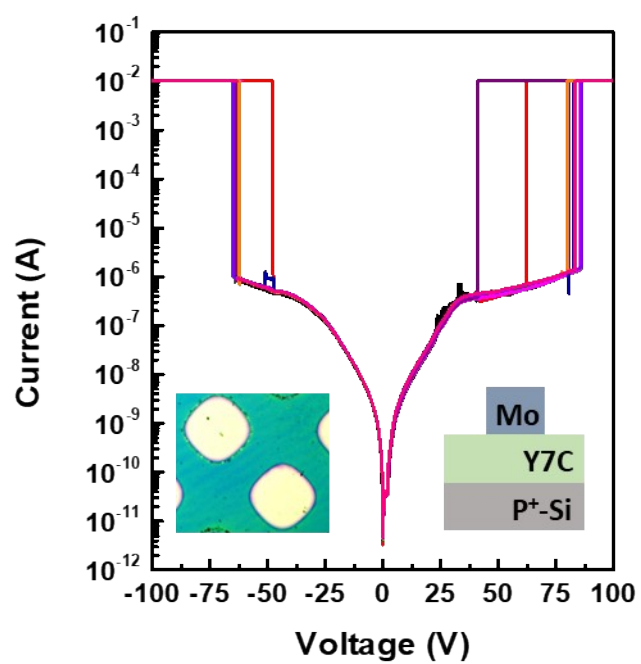
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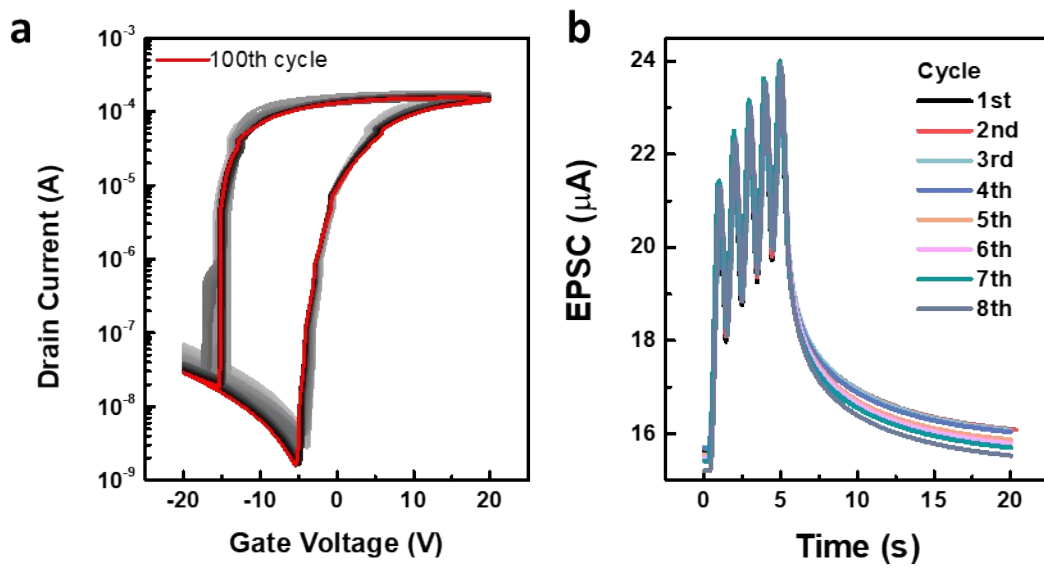
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**Figure S1.** (a) AFM surface profile of the Y7C film after spin-coating 4 wt% Y7C solution. (b) Thickness of Y7C film as a function of Y7C concentration in TFA solution.



**Figure S2.** I-V characteristics of the Y7C peptide film. Insets show an optical image of top view (left) and a schematic image (right) of the device structure for IV measurement.



**Figure S3.** The response of (a) the transfer curves to 100 times repeated gate sweeps and (b) the pulse facilitation to 8 times repeated five consecutive presynaptic stimuli.