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Electronic Supplementary Information

Voltage (V)	Envelope width (μs)	μpulses	Fire rate (Hz)	Pulse fluence (J/cm ²⁾	No. of pulses
670	1950	8	1.2	5.6	3

Table S1. Thin film processing parameters.

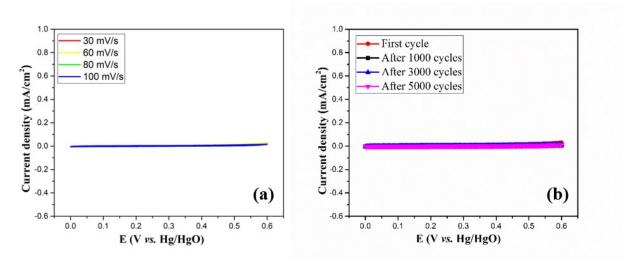


Figure S1. CV curves for Pt-Si substrate (a) at various scan rates and (b) at 50 mV/s scan rate after various number of CV cycles.

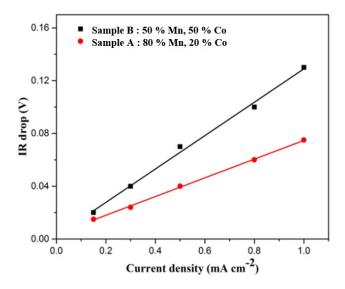


Figure S2. IR drops at various current densities for both the samples.

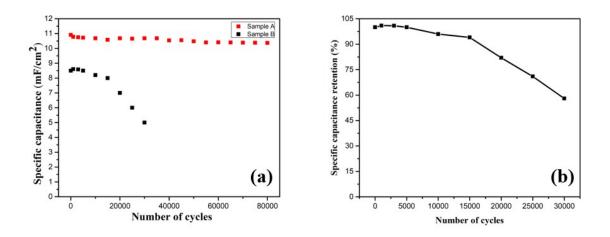


Figure S3. (a) Specific capacitance vs. number of GCD cycles for Samples A and B and (b) Specific capacitance retention percentage vs. number of GCD cycles for Sample B.