

Supporting Information

A droplet energy harvesting and actuation system for self-powered digital microfluidics

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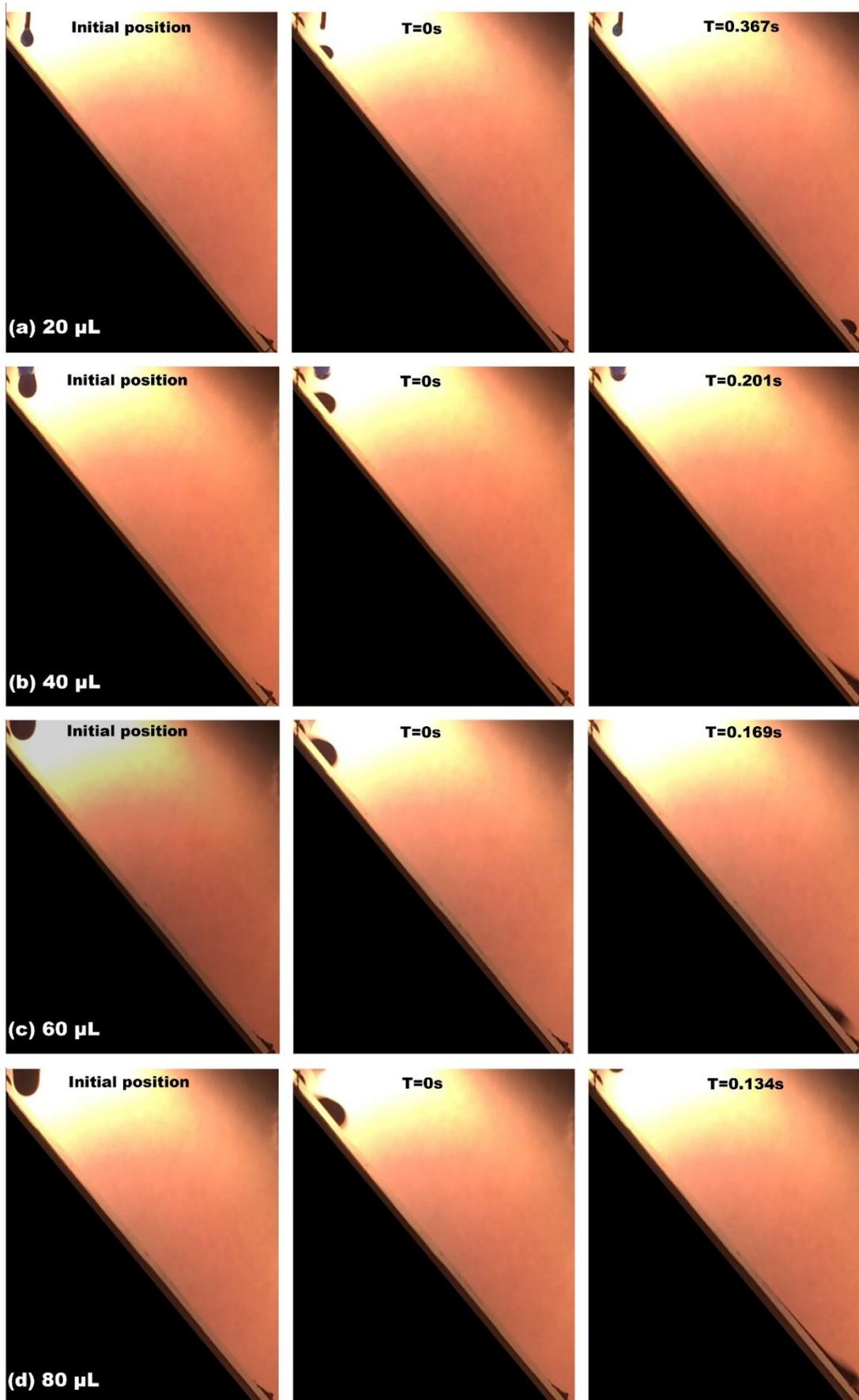


Figure S1. 20 μL (a), 40 μL (b), 60 μL (c) and 80 μL (d) droplet sliding motion

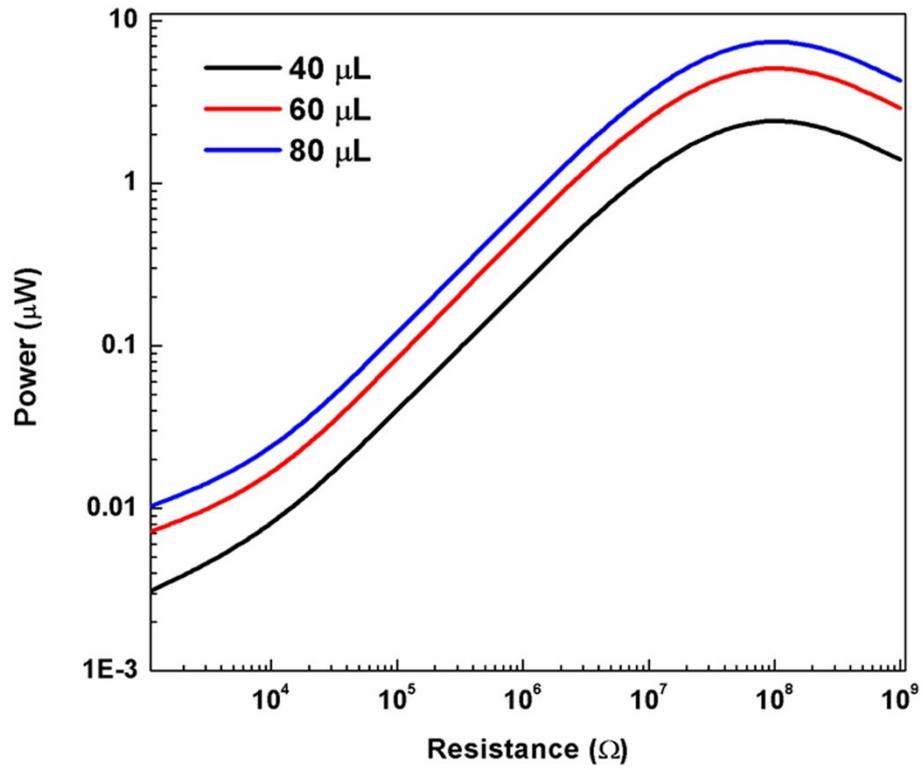


Figure S2. Output power of the 40 μL, 60 μL and 80 μL droplet sliding motion varying with different load resistances.

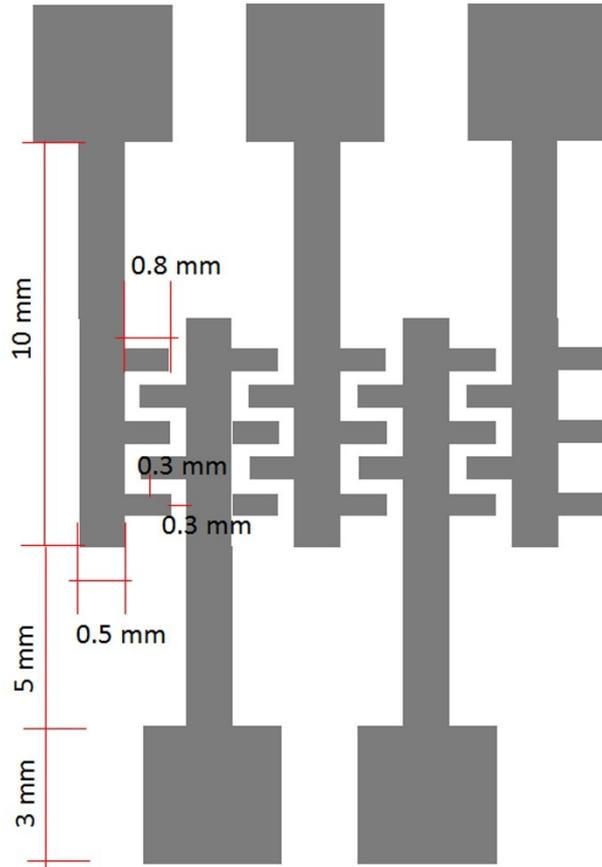


Figure S3. Comb-shaped electrode design

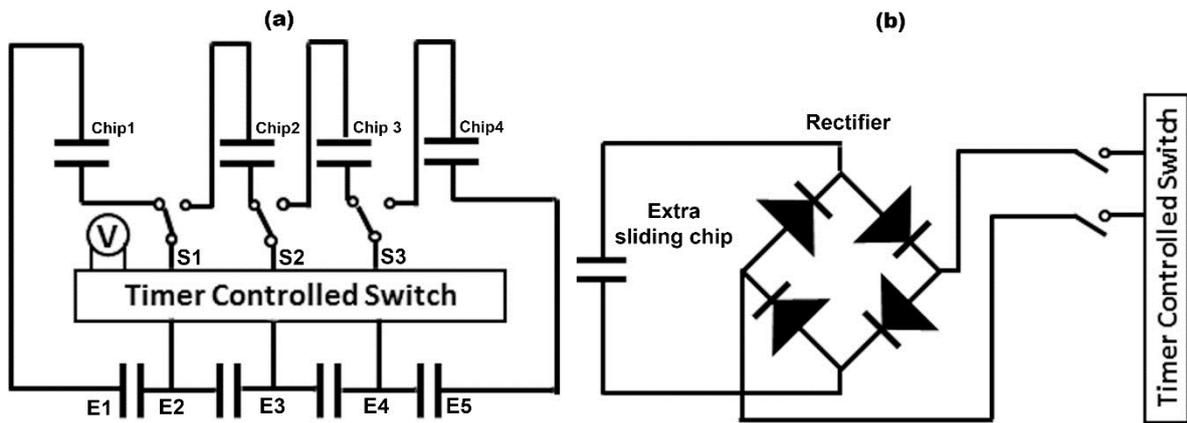


Figure S4. (a) timer controlled switch circuit connecting the sliding chips and actuation chip and (b) an extra sliding chip with a rectifier to supply power for the timer controlled switch.