

Stretchable conductive hydrogels integrated with microelectronic devices for strain sensing

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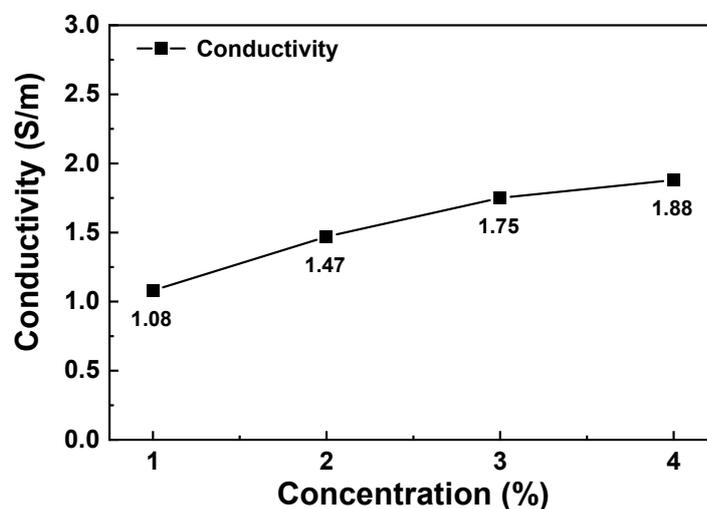


Fig. S1. Conductivity of hydrogel sensors with different NaCl concentrations.



Fig. S2. Image of a hydrogel sensor.

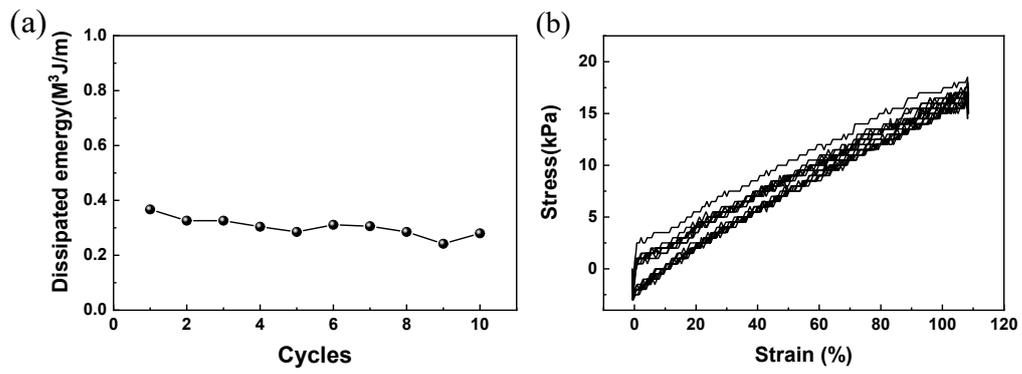


Fig. S3 (a) Energy dissipation curve of hydrogel sensor in 10 cycles under 100% tensile strain. (b) Cyclic loading and unloading curve of SN hydrogel.

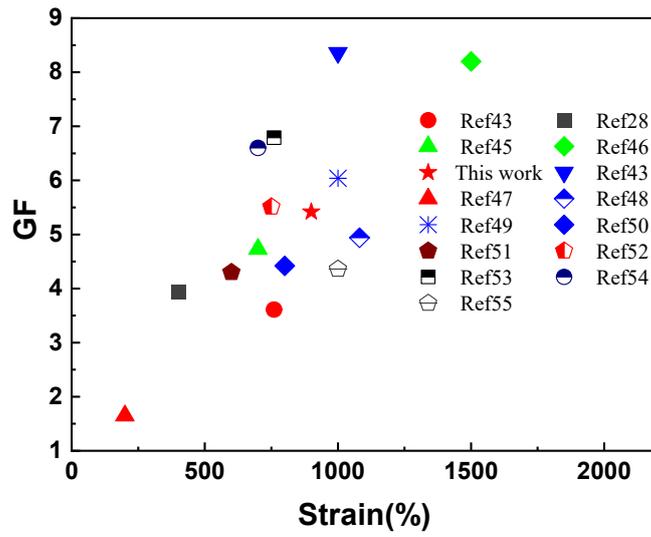


Fig. S4. The strain range and sensitivity of the sensors in this work are compared with those previously reported.

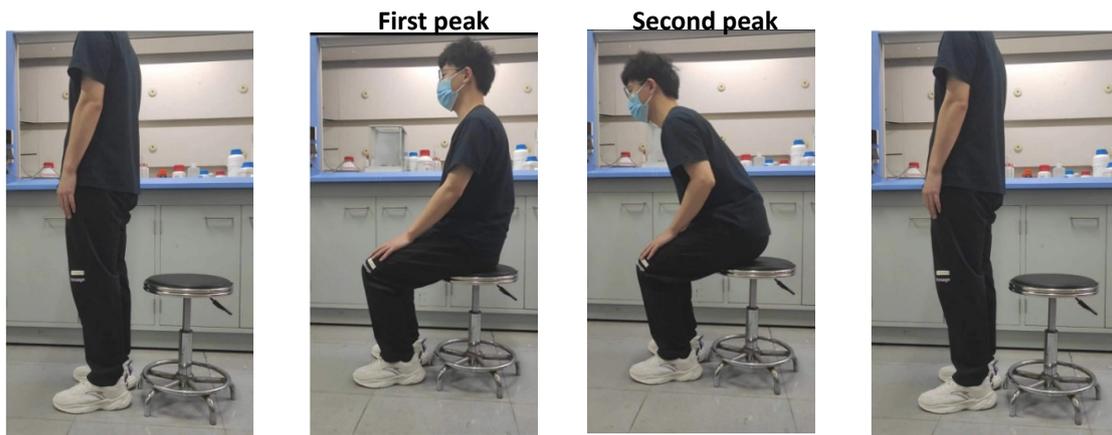


Fig. S5. Action analysis diagram (Sitting-standing).

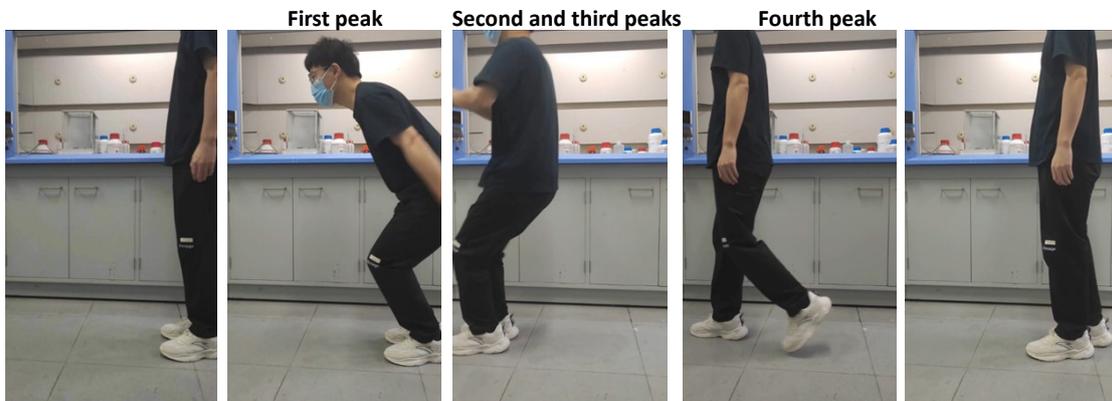


Fig. S6. Action analysis diagram (Jumping - Walking back).

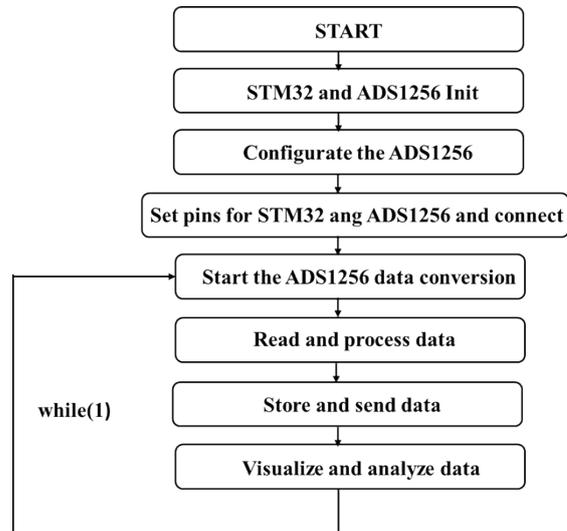
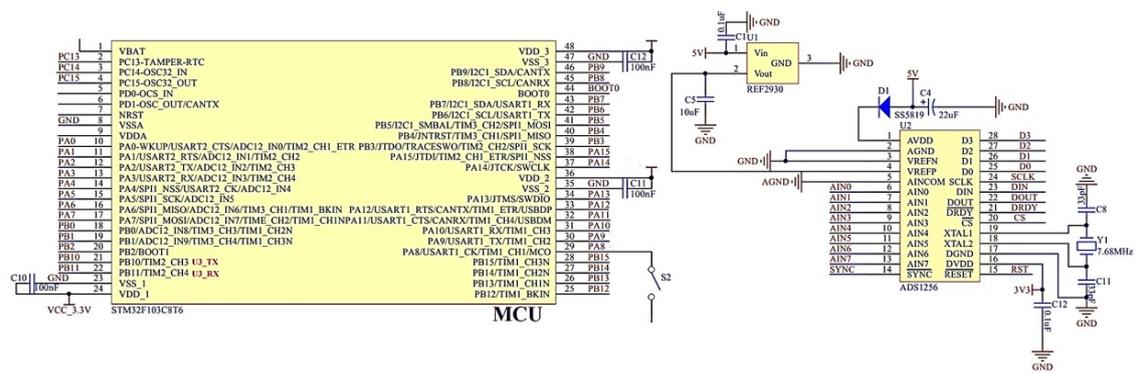


Fig. S7. Schematics of stm32 and ADS1256 microcontroller and data acquisition flow chart.

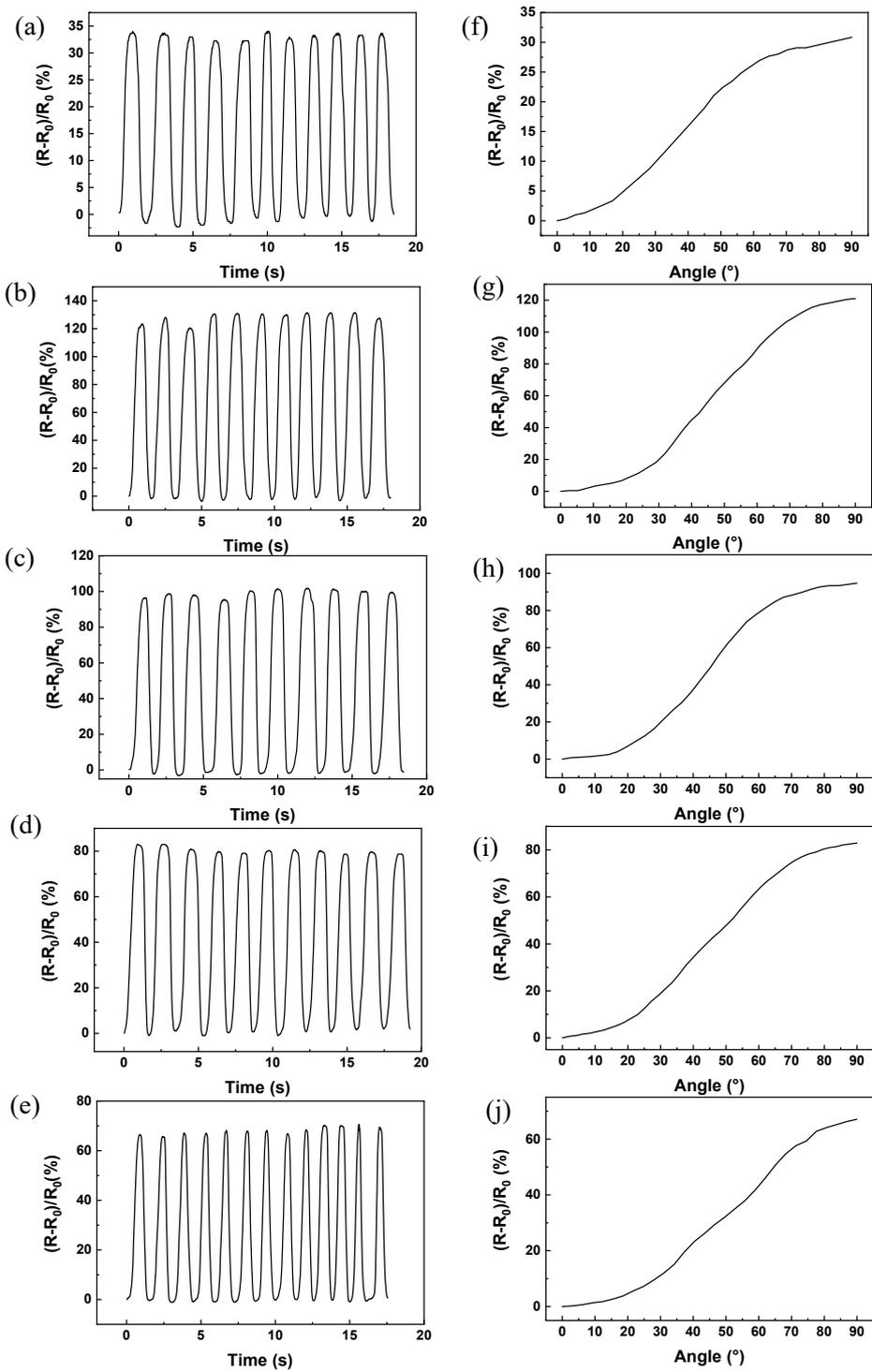


Fig. S8 (a) (b) (c) (d) (e) are the cyclic ringing curves for 90 degrees of thumb, index, middle, ring, and baby bending, respectively. (f) (g) (h) (i) (j) are the relationship between the angles of thumb, index, middle, ring, and baby and the response values.