

## Supporting information

### Wearable strain sensors based on casein-driven tough, adhesive and anti-freezing hydrogels for monitoring human-motion

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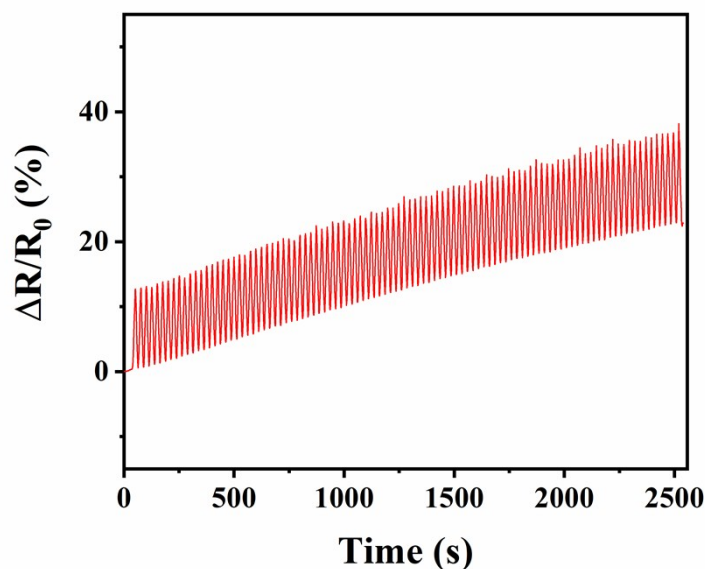


Figure S1. The PAAm/Casein hydrogel sensor at 100% strain for 100 cycles.

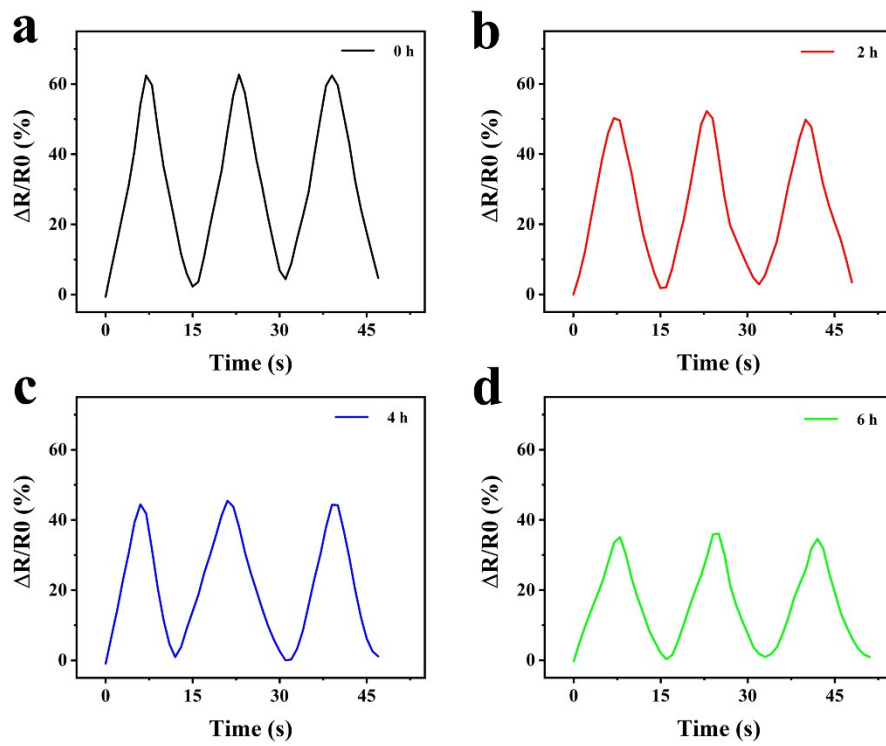


Figure S2. Relative resistance changes of the PAAm/Casein hydrogel sensor as a function of time of water loss: (a) 0 h; (b) 2 h; (c) 4 h; (d) 6 h.