Supplementary Material

Iontronic pressure sensor with wide linearity range for plug-and-play fingertip pulse recording and statistical cardiovascular monitoring

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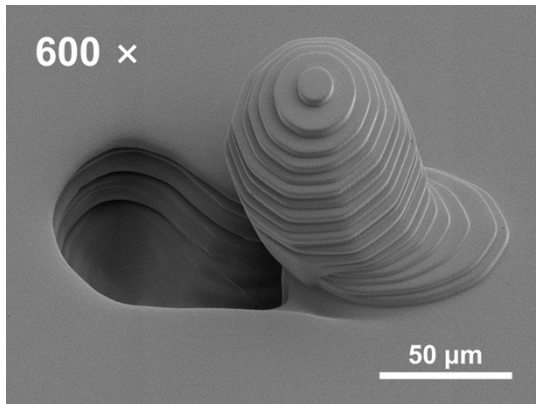

Fig. S1. SEM images of the hierarchical microstructure.

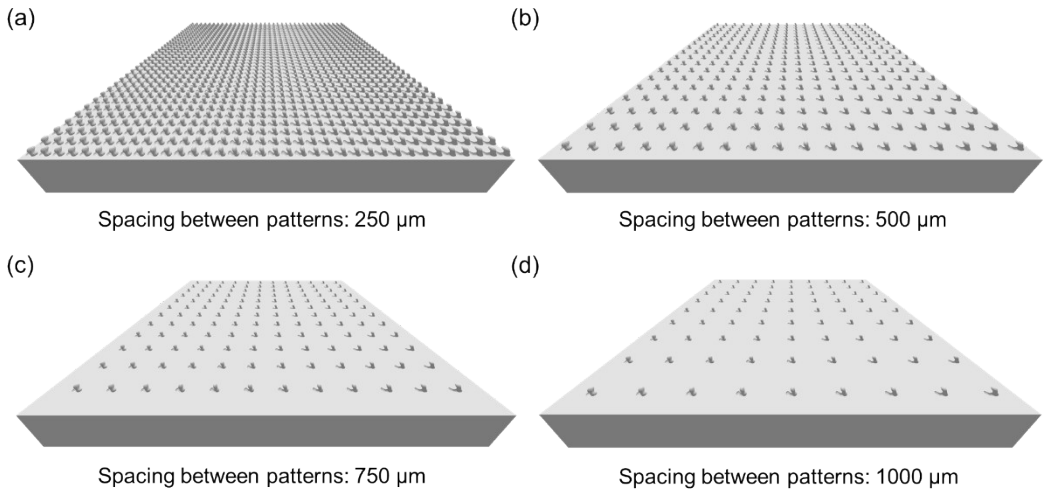

Fig. S2. Schematic illustration of pillar-groove array with varied inter-pattern spacings.

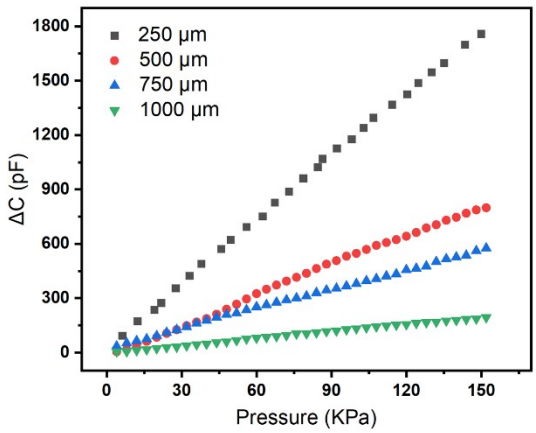

Fig. S3. The sensitivity of the iontronic sensors with different inter-pattern spacings.

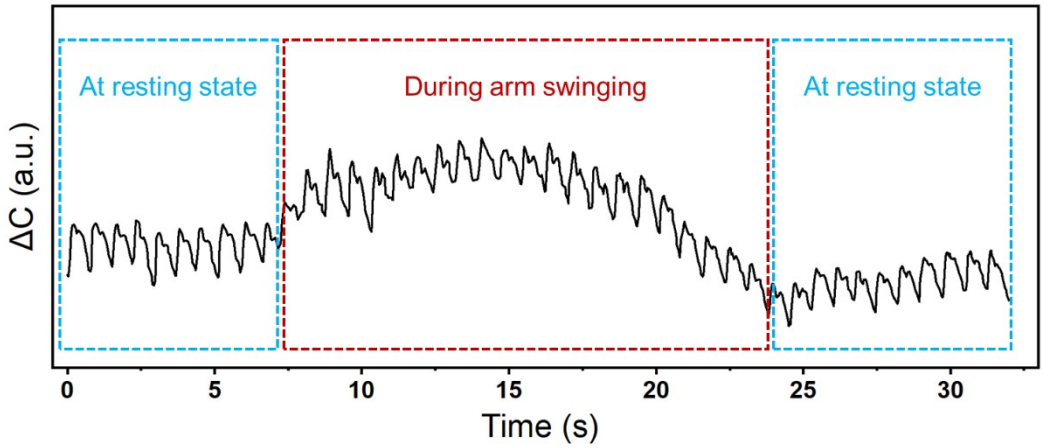

Fig. S4. Continuous fingertip pulse monitoring during arm swinging.

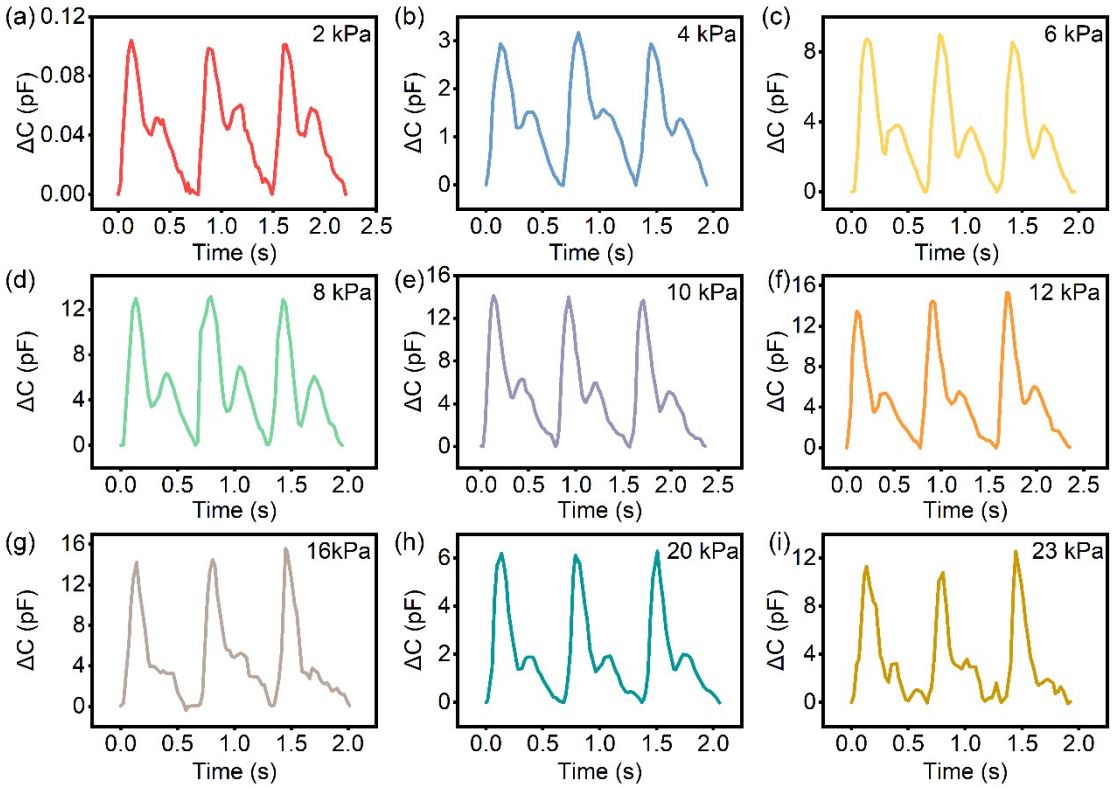

Fig. S5. Fingertip pulse waveforms of a 25-year-old subject at preloads of 2 kPa, 4 kPa, 6 kPa, 8 kPa, 10 kPa, 12 kPa, 16 kPa, 20 kPa, and 23 kPa.

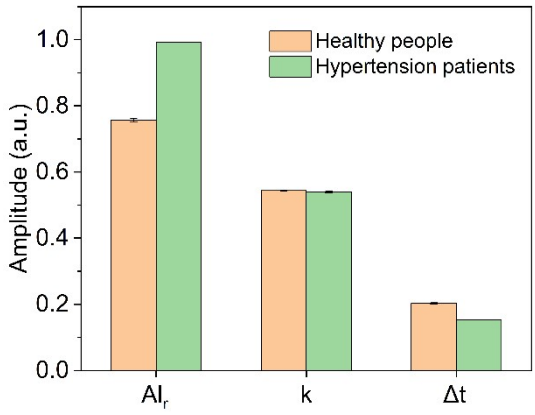

Fig. S6. The average value of AI_r, k and Δt for healthy people and hypertension patients.