

Supporting Data

Thermo and Flex Multi-Functional Array Ionic Sensor for Human Adaptive Device

Sukjin Jang,^{ab} Daehwan Choi,^{ab} Suk Yang,^{ab} and Jang-Yeon Kwon^{*ab}

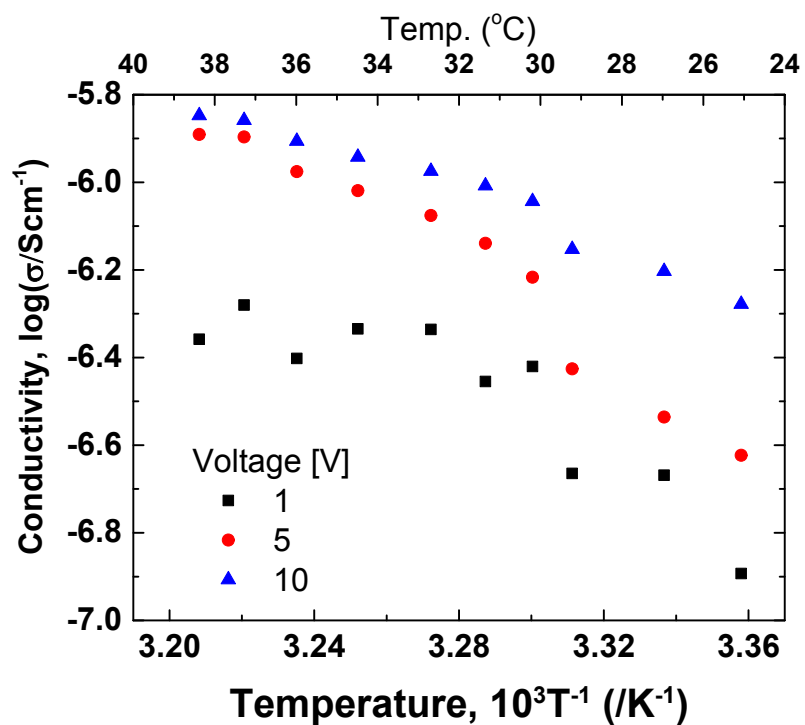
^a School of Integrated Technology, Yonsei University, Incheon 21983, Republic of Korea

^b Yonsei Institute of Convergence Technology, Yonsei University, Incheon 21983, Republic of Korea

Corresponding author:

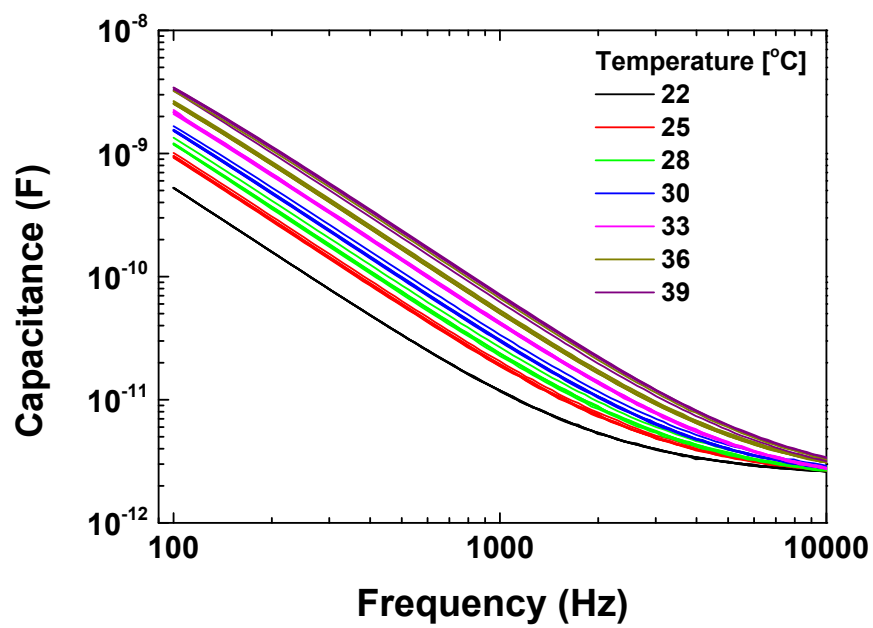
Prof. Jang-Yeon Kwon

E-mail: jangyeon@yonsei.ac.kr

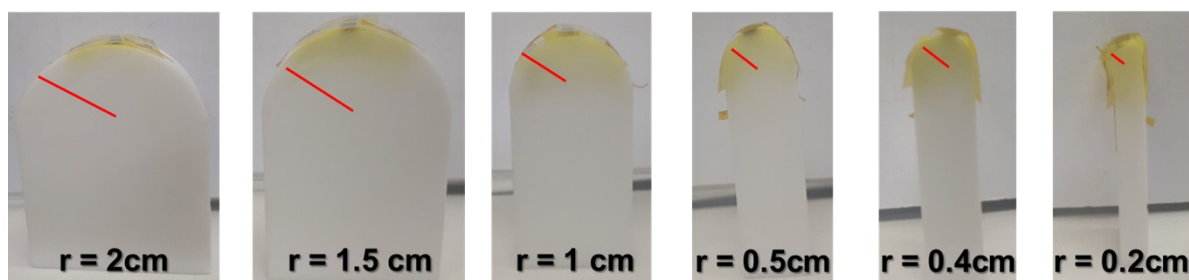
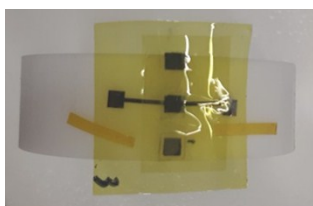


Supporting Figure 1 Relationship between temperature and conductivity in resistive type sensor.

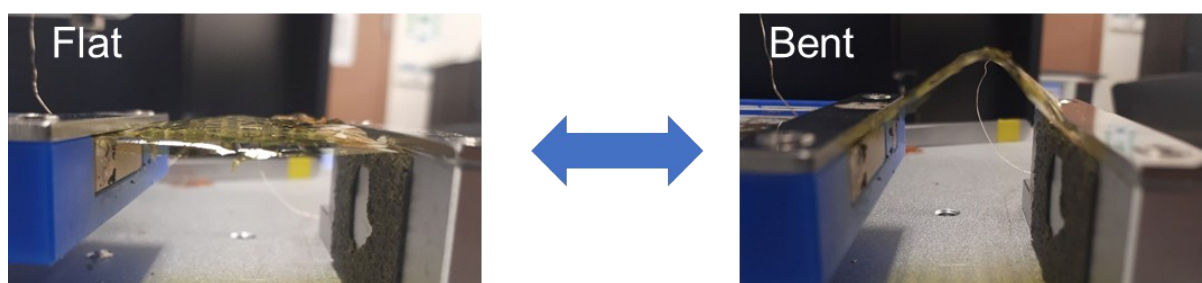
At 10 V and 5 V, the result is linear with respect to K^{-1} , which satisfies the Arrhenius equation well.



Supporting Figure 2 Relationship between capacitance and frequency as temperature.



Supporting Figure 3 A semicircular curve made of Teflon. The radii are 2, 1.5, 1, 0.5, 0.4, and 0.2 cm, respectively. The i-TPU was covered and bent over it.



Supporting Figure 4 Image of bending test using bending machine.