

Supplementary Information

Room-temperature ppb-level trimethylamine gas sensors functionalized with citric acid-doped polyvinyl acetate nanofibrous mats

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1. Dynamic responses of PVAc/CA nanofiber sensors

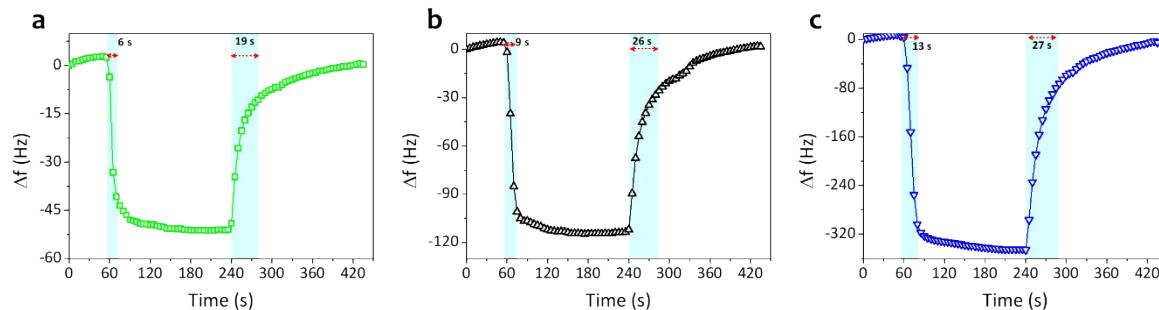


Figure S1 Single-cycle dynamic responses of three quartz crystal microbalance (QCM)-based gas sensors functionalized with different citric acid-doped polyvinyl acetate nanofibrous (PVAc/CA) mats: **a** PVAc/CA2, **b** PVAc/CA6, and **c** PVAc/CA8. Trimethylamine (TMA) vapors with a concentration of 10 ppm were used to investigate the response and recovery times of all nanofiber sensors.

2. Normalized sensor sensitivity

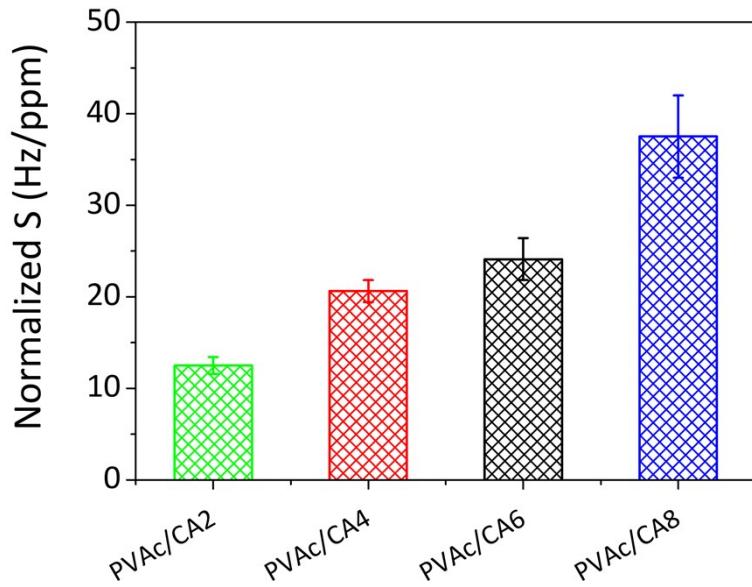


Figure S2 Normalized sensitivity values of four PVAc/CA nanofiber-coated QCM sensors (i.e., PVAc/CA2 – PVAc/CA8 sensors). The normalization process was conducted to investigate the nanofiber mass deposition effect on the sensor sensitivity.