
Supplementary materials



Figure S1. Uniform distribution of PAM in deionized water.

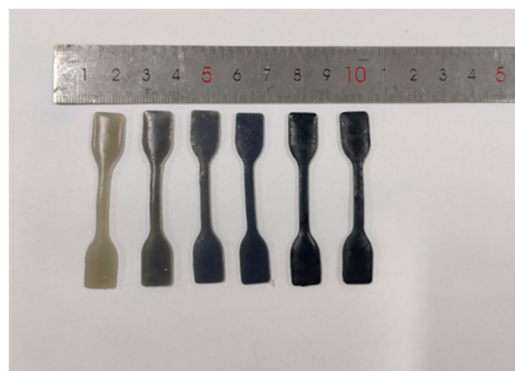


Figure S2. Optical image of PAM gel.

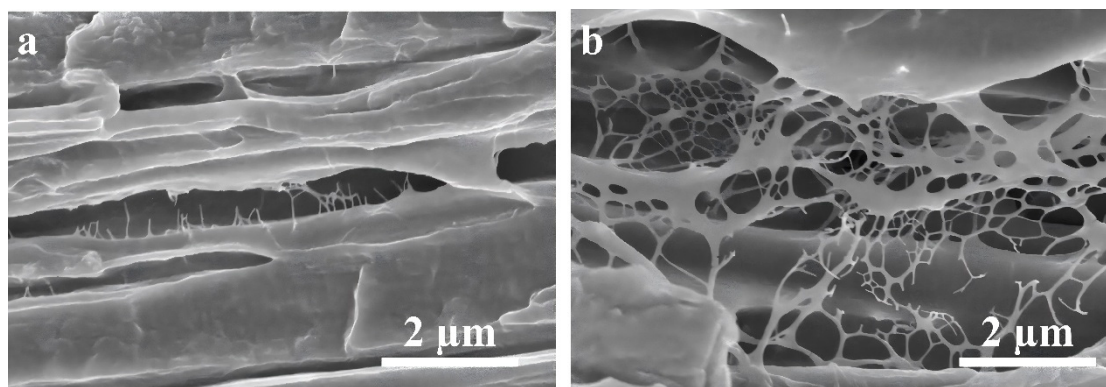


Figure S3. (a, b) SEM of PAM composite organogels local magnified view.

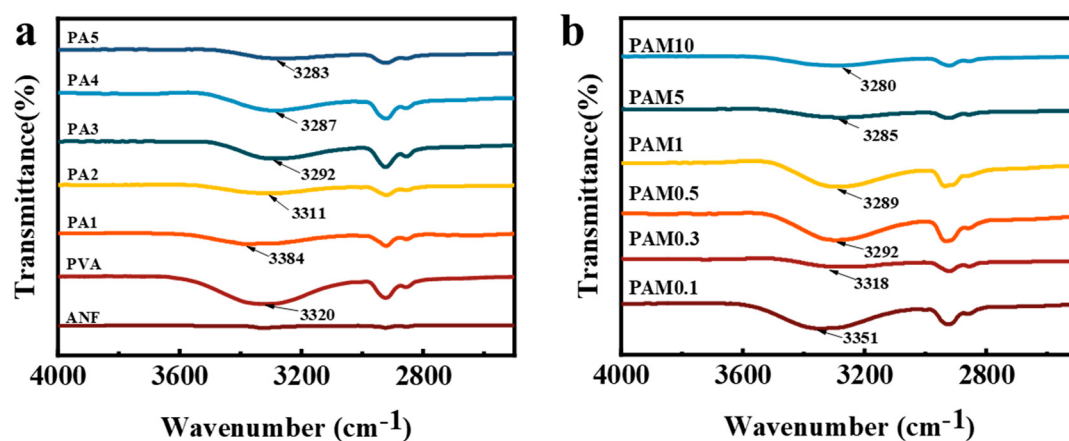


Figure S4. (a) FTIR of PA5, PA4, PA3, PA2, PA1 and PVA. (b) FTIR of PAM10, PAM5, PAM1, PAM0.5, PAM0.3 and PAM0.1.

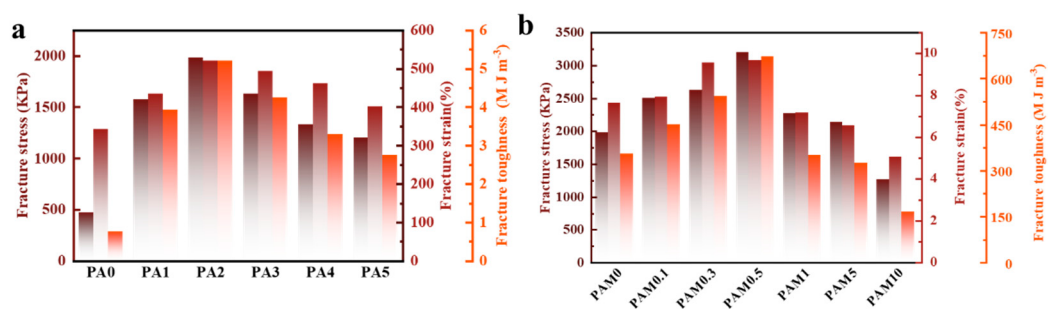


Figure S5. (a) Mechanical properties comparison of PA5, PA4, PA3, PA2, PA1 and PVA. (b) Mechanical properties comparison of PAM10, PAM5, PAM1, PAM0.5, PAM0.3 and PAM0.1.

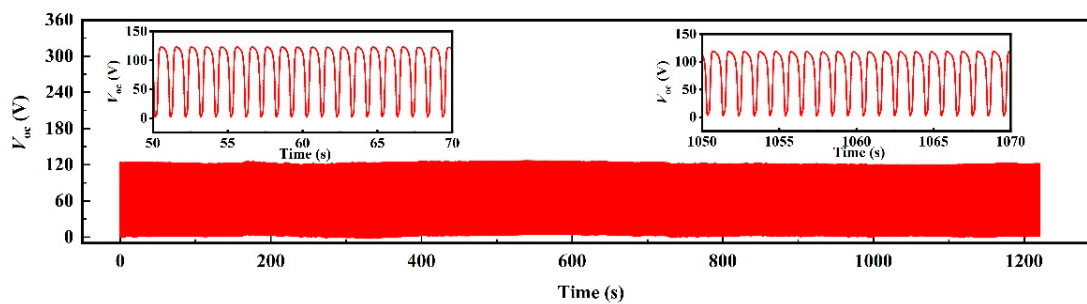


Figure S6. Stability curve of PAM-based pressure sensor.

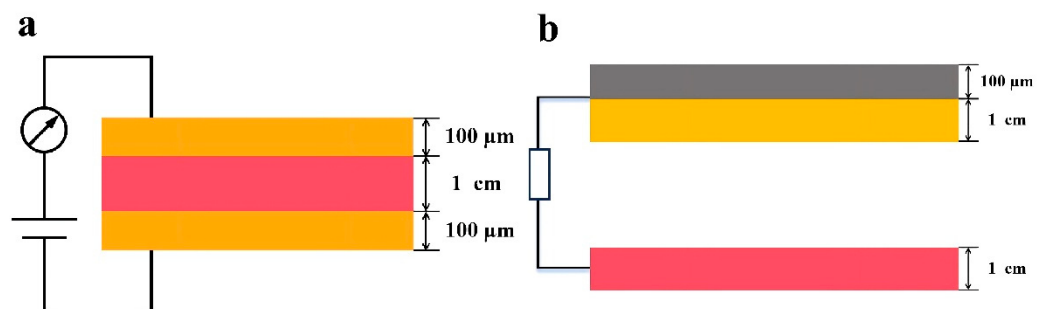


Figure S7. Supply electrode thickness and connection mode in (a) pressure sensor and (b) TENG structural schematics.

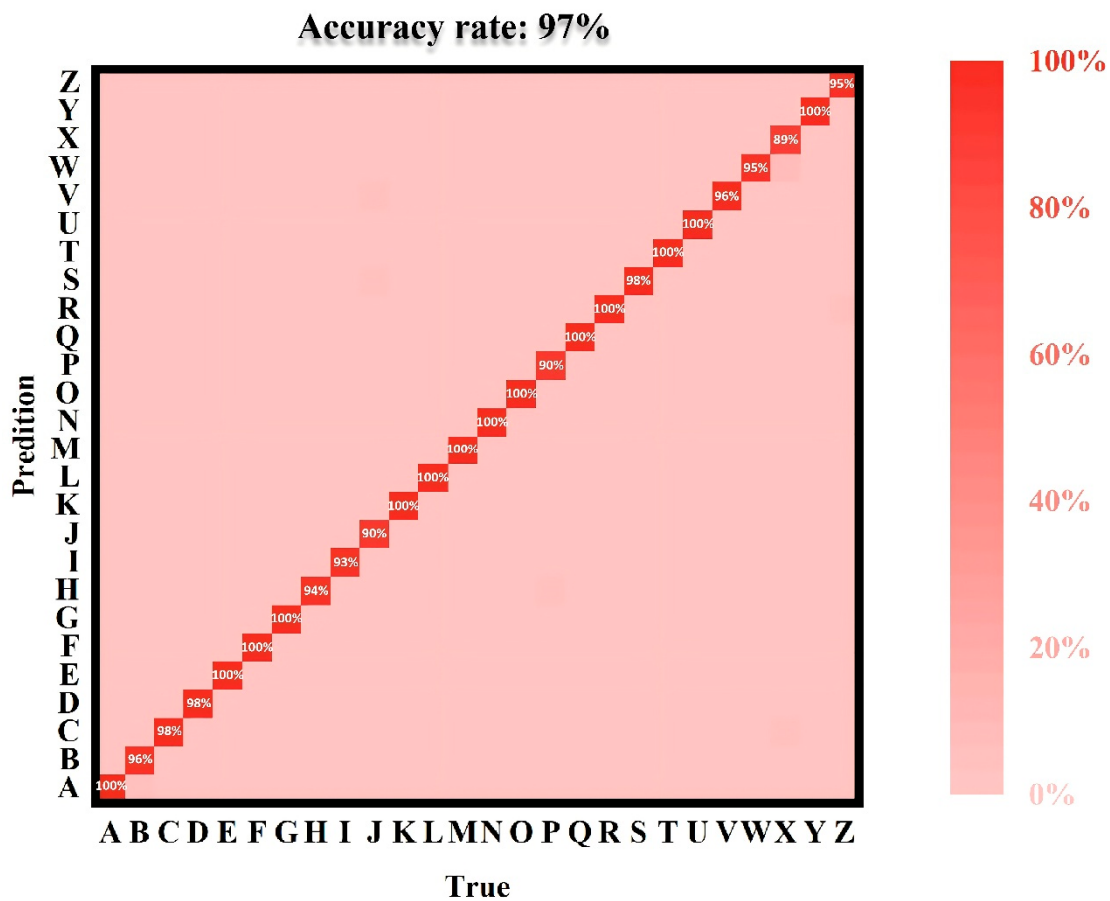


Figure S8. Confusion Matrix of MLP-Based Alphabet Recognition with Labeled Precision, Recall and Overall Classification Accuracy.