

Supplementary Information

A Janus PEDOT/PAM Conductive Hydrogel Enabling Dual-function Uric Acid Detection and Mechanical Monitoring

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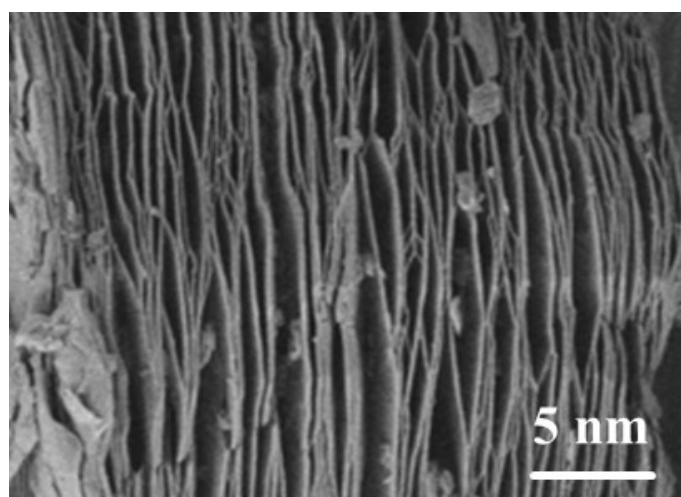


Fig. S1 SEM image of MXene nanosheets.

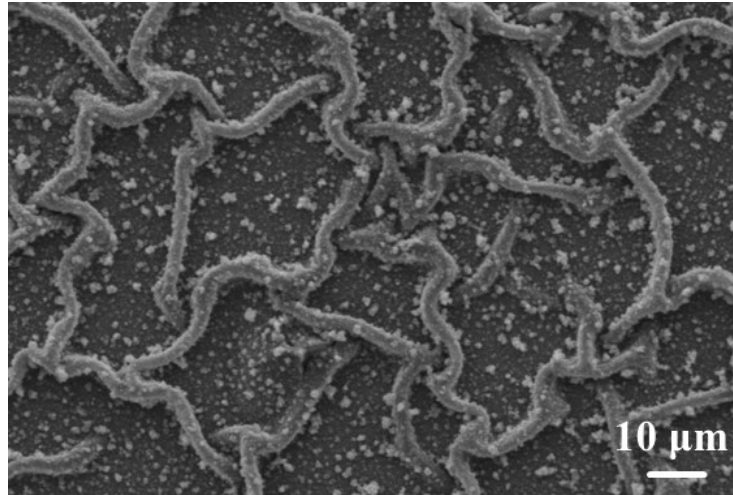


Fig. S2 SEM image of PEDOT film.

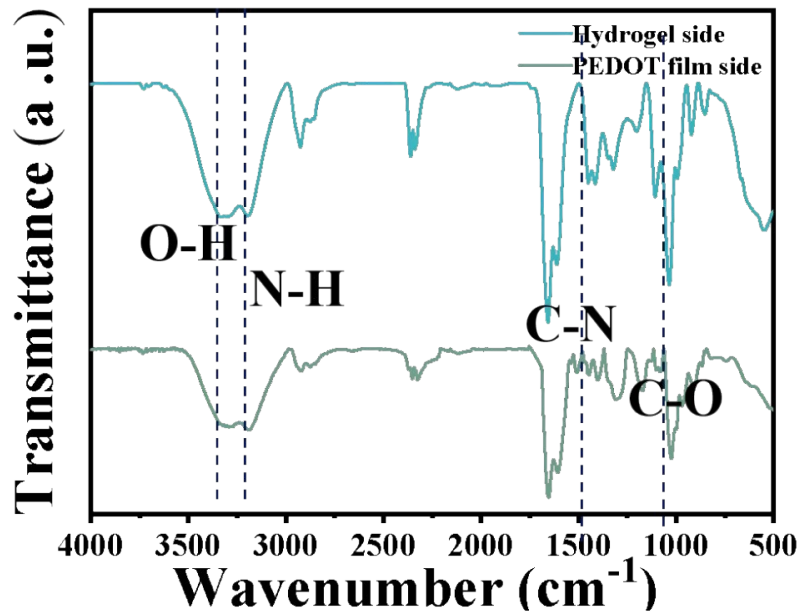


Fig. S3 FTIR of the Janus PEDOT/PAM conductive hydrogel.

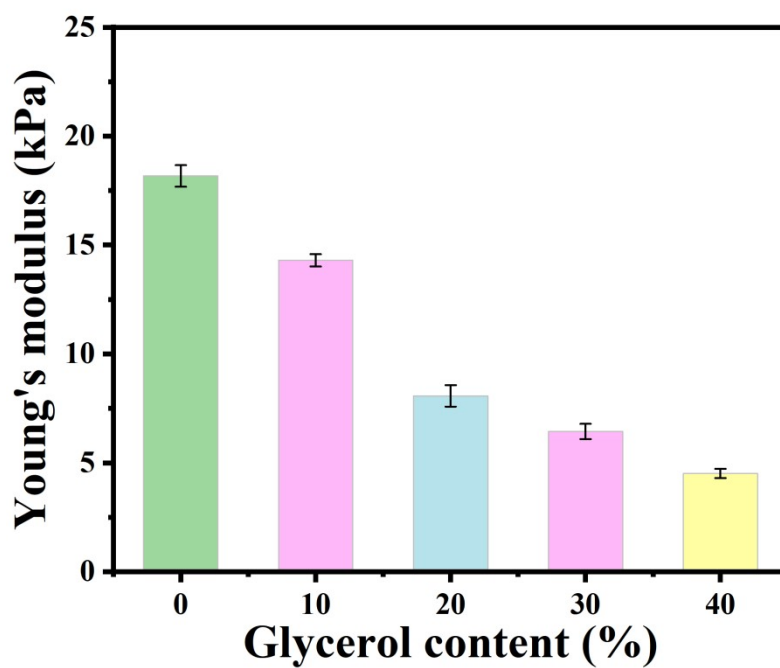


Fig. S4 Young's modulus of the Janus PEDOT/PAM conductive hydrogel with different glycerol content.

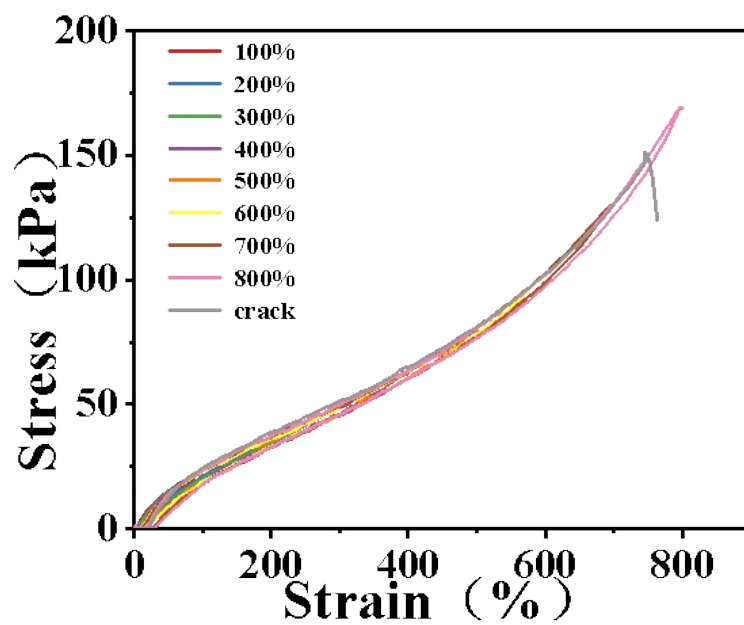


Fig. S5 Loading-unloading hysteresis curves under tensile strains of 100–900%.

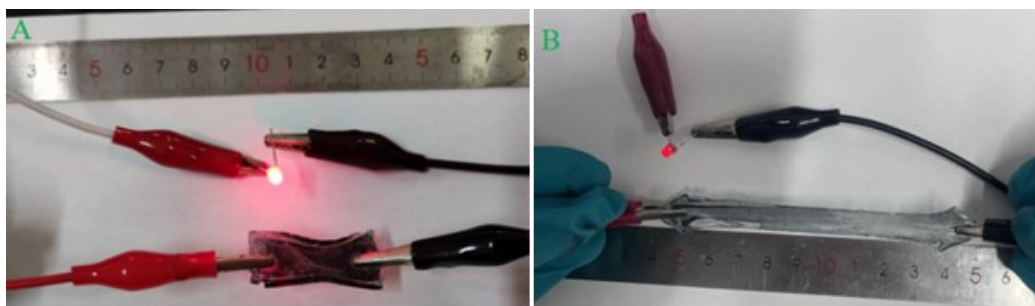


Fig. S6 (A-B) Janus PEDOT/PAM conductive hydrogel lights LED steadily during deformation.

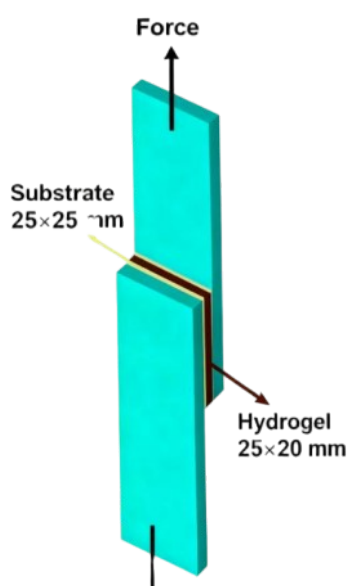


Fig. S7 Adhesion test schematic.

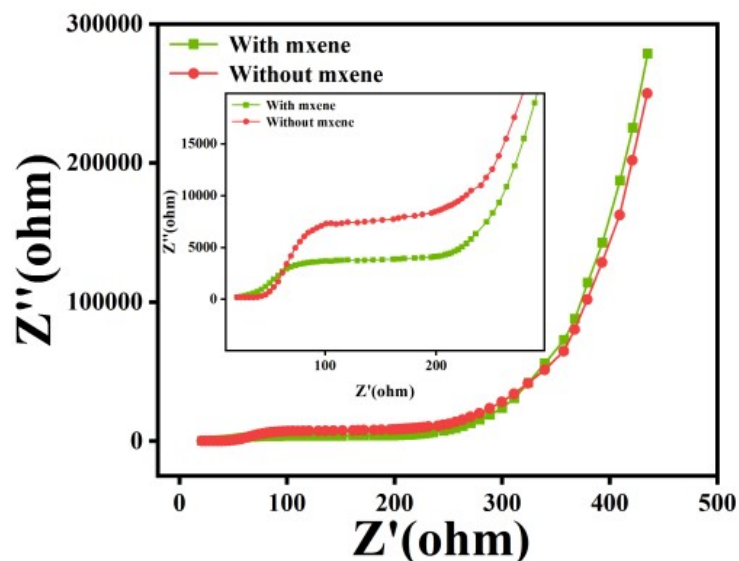


Fig. S8 EIS comparison of Janus PEDOT/PAM conductive hydrogels with and without MXene addition.

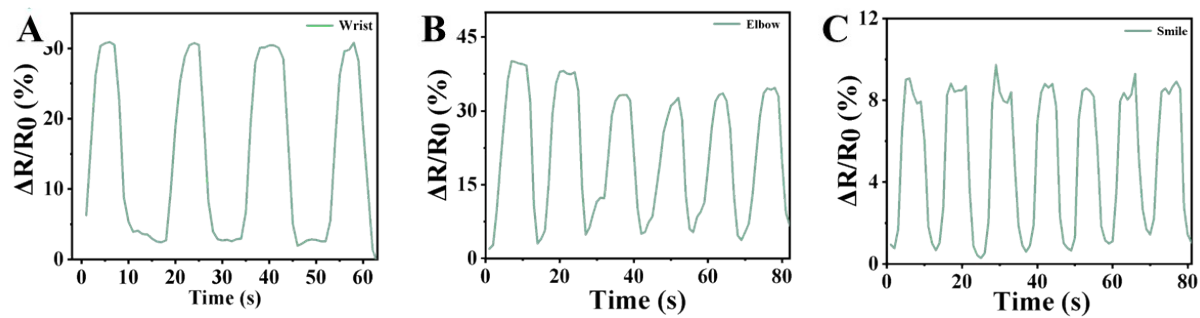


Fig. S9 (A-C) Monitoring of wrist, elbow and face vibrations.