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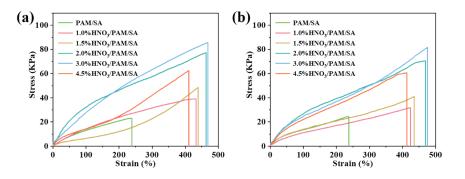


Fig. S1. Comparison of the maximum tensile strain of PAM/SA and 3.0HNO₃/PAM/SA hydrogels.

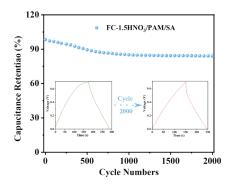


Fig. S2. Capacitance retention curves of FC-1.5HNO₃/PAM/SA.

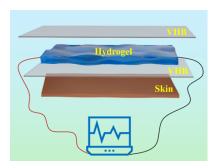


Fig. S3. Schematic diagram of hydrogel sensor detection system.