

Supporting Information

Hybrid pectin-Fe³⁺/polyacrylamide double network hydrogel with excellent strength, high stiffness, superior toughness and notch-insensitivity

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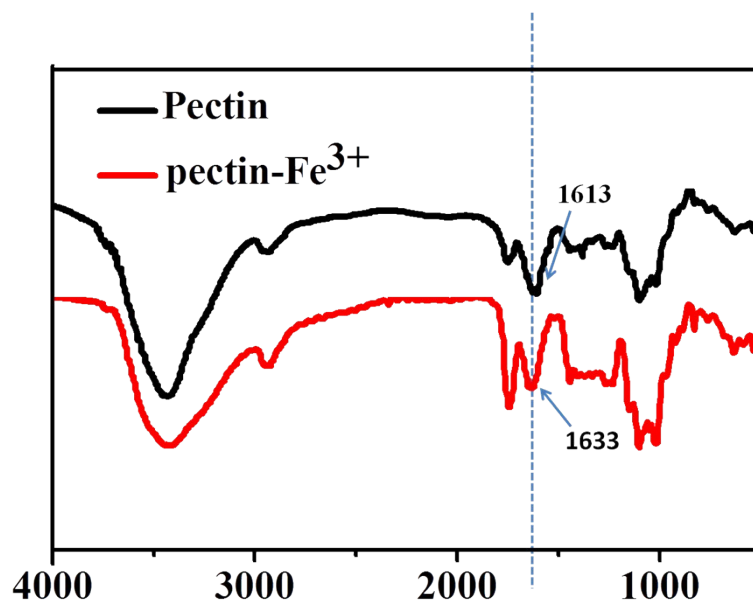


Fig. S1. FTIR spectra of pectin powder and pectin-Fe³⁺ hydrogel.

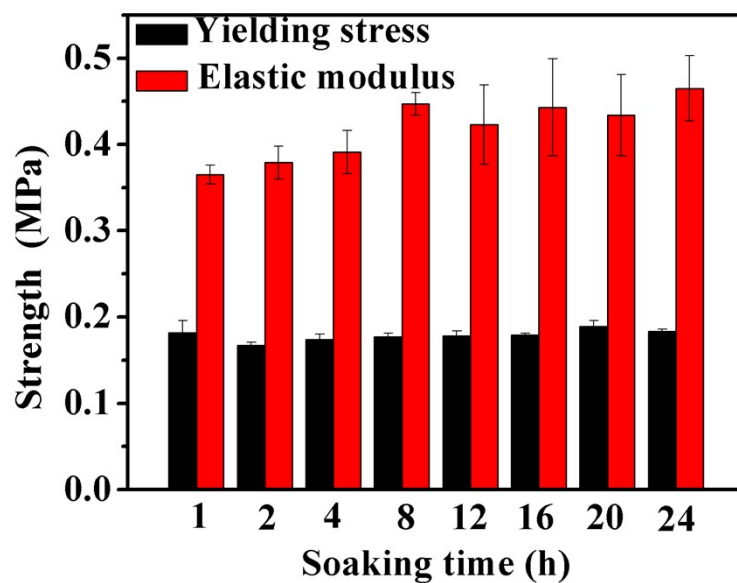


Fig. S2. Yielding stress and Elastic modulus of pectin-Fe³⁺/PAAm DN gels as a function of soaking time. The weight ratio of pectin to acrylamide is 1:7.3.

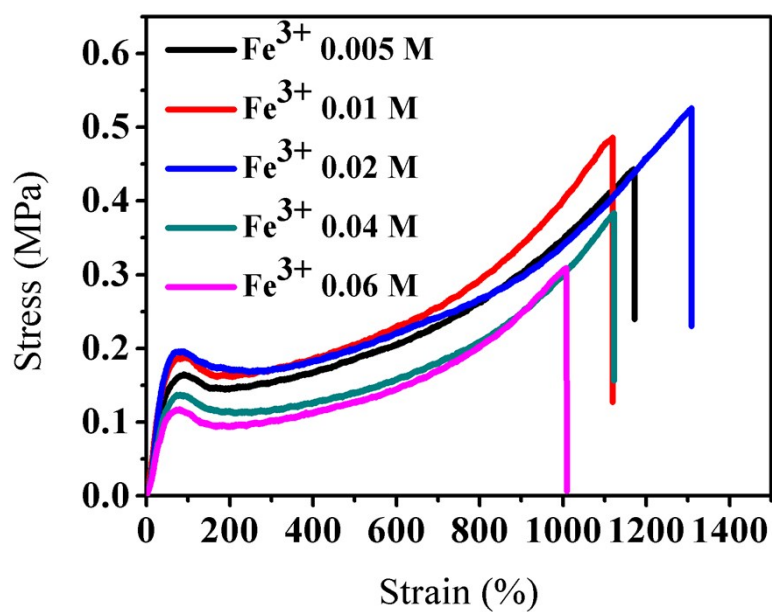


Fig. S3. Effect of Fe³⁺ concentration on the tensile properties of pectin-Fe³⁺/PAAm DN hydrogels. The weight ratio of pectin to acrylamide is 1:7.3.

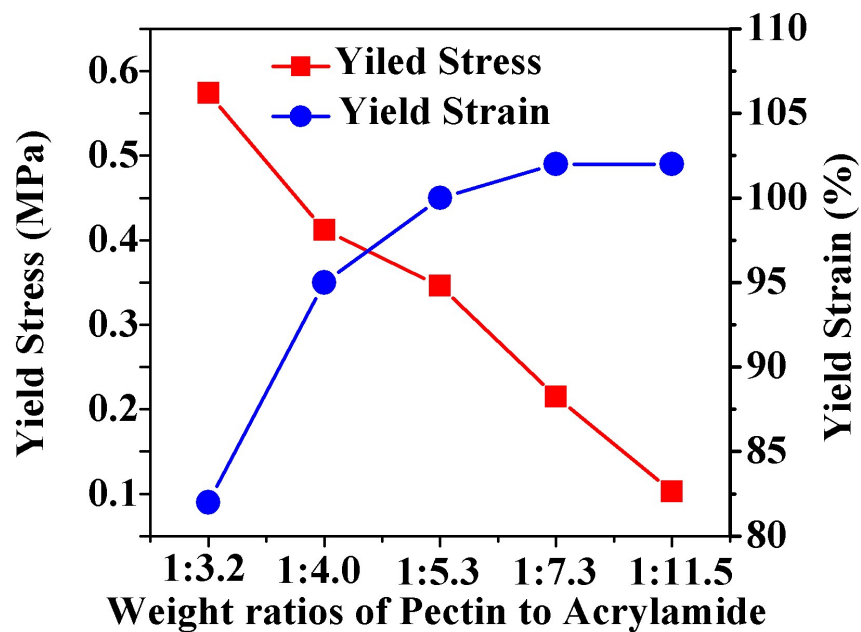


Fig. S4. Effect of weight ratios of pectin to acrylamide on the yield stress and strain of pectin-Fe³⁺/PAAm DN hydrogels.

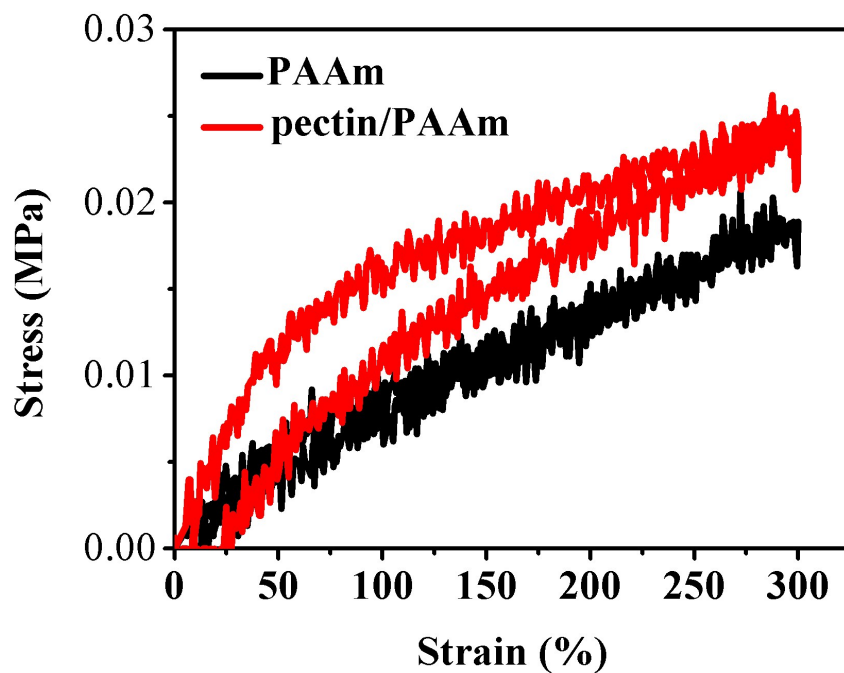


Fig. S5. The amplified loading-unloading curves of PAAm SN hydrogels and pectin/PAAm hydrogels in Fig. 7c