

Electronic Supplementary Information

Shape Memory Effect and Rapid Reversible Actuation of Nanocomposite Hydrogels with Electrochemically Controlled Local Metal Ion Coordination and Crosslinking

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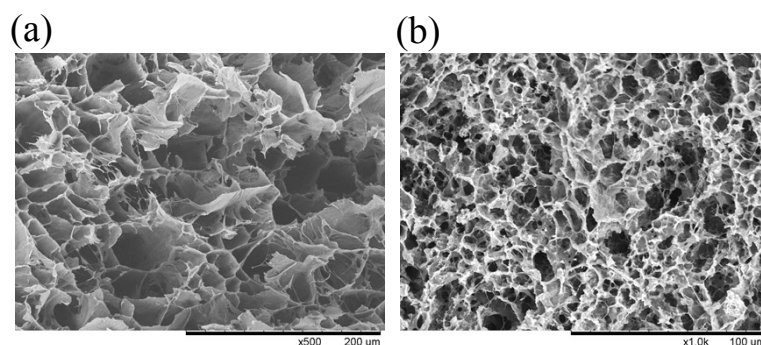


Figure S1. SEM images of the aPAAM/MMT hydrogels before (a) and after (b) Fe^{3+} coordination and crosslinking.

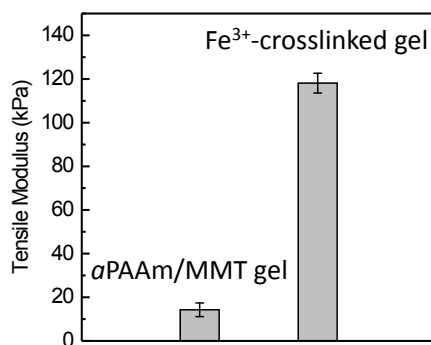


Figure S2. Tensile modulus values of hydrogels before and after Fe^{3+} crosslinking.

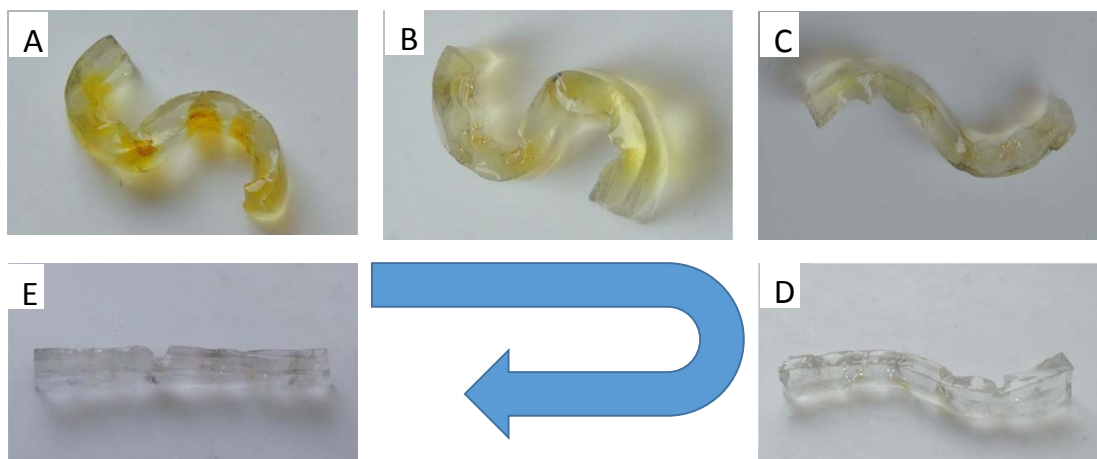


Figure S3. The hydrogel stripe was printed by using an iron electrode array to create six local coordination and crosslinking to generate an S-shaped structure. The S-shaped structure recovered to its original straight line when the Fe^{3+} ions were removed by immersing in 0.1 mol/L EDTA solution. This procedure is repeatable.