

Electronic Supplementary Information (ESI)

Tough and Responsive Oppositely Charged Nanocomposite Hydrogels for Assembled Bilayer Actuators Through Interfacial Electrostatic Attractions

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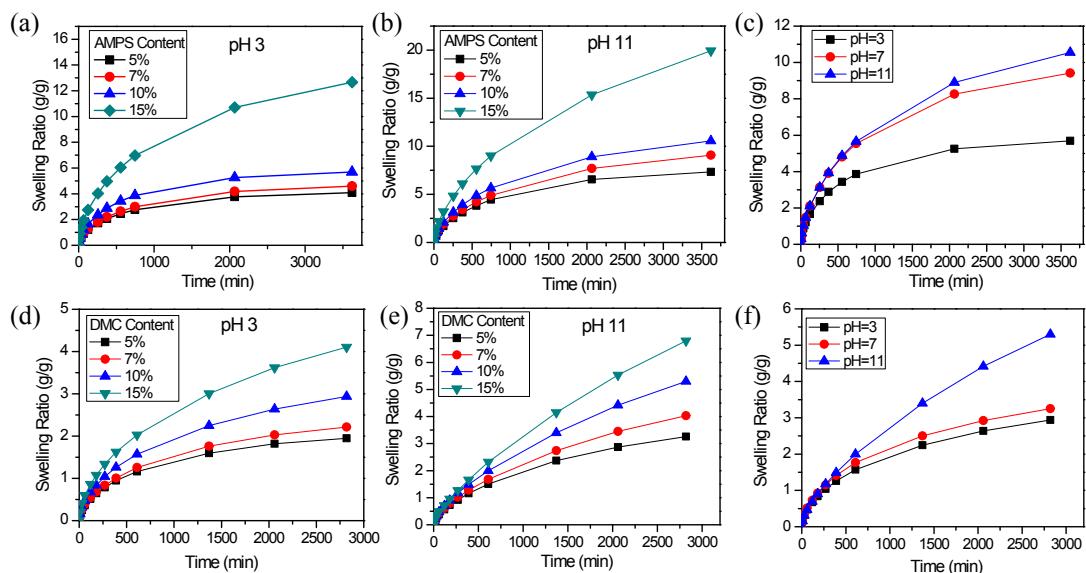


Figure S1 Representative swelling curves of different S_n AM gels at (a) pH=3 (a) and (b) pH=11 (b), and (c) S_{10} AM gel swelling at different pH; and swelling properties of different D_m AM gels at (d) pH=3 and (e) 11, and (f) D_{10} AM gel swelling property at different pH.

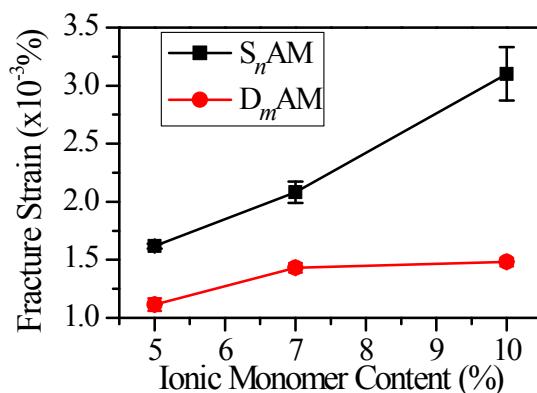


Figure S2 Tensile strstrain of SnAM and DmAM as a function of ionic monomer content.

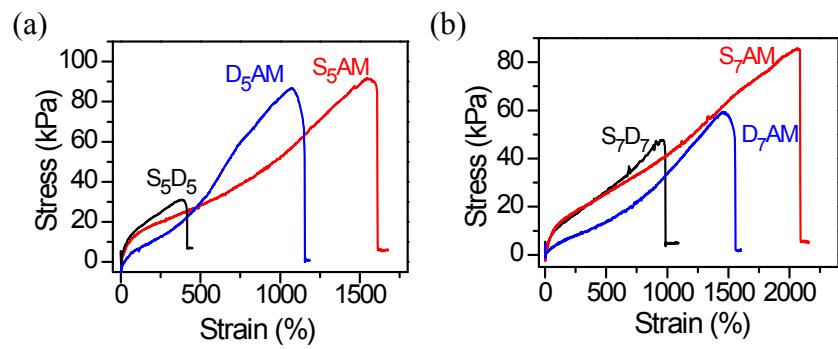


Figure S3 Representative swelling curves of different S_n AM gels at (a) pH=3 (a) and (b) pH=11 (b), and (c) S_{10} AM gel swelling at different pH; and swelling properties of different D_m AM gels at (d) pH=3 and (e) 11, and (f) D_{10} AM gel swelling property at different pH.