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 x AM gels at (a) pH=3 (a) and (b) pH=11 (b), and (c) S 15 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 strain of SnAM and DmAM as a function of ionic monomer content.
Figure S3 Representative swelling curves of different S\textsubscript{n}AM gels at (a) pH=3 (a) and (b) pH=11 (b), and (c) S\textsubscript{10}AM gel swelling at different pH; and swelling properties of different D\textsubscript{m}AM gels at (d) pH=3 and (e) 11, and (f) D\textsubscript{10}AM gel swelling property at different pH.