

Electronic supporting information

The Effect of Finely Controlled Nanocomposite Concentration and the Change of Nanochannel Size on Proton Conductivity of Nanocomposite Membranes

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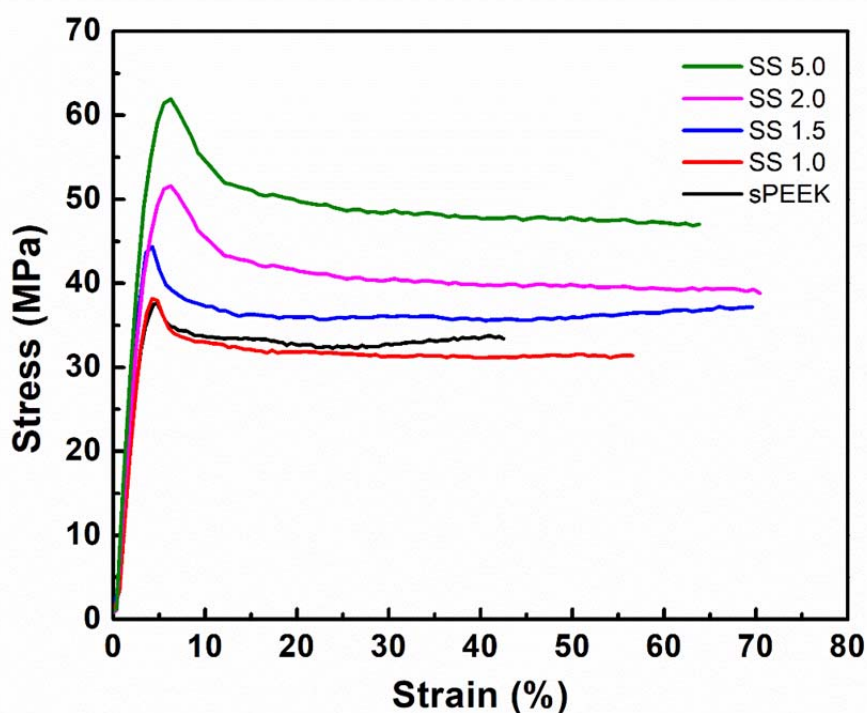


Figure S1. Tensile properties of sPEEK nanocomposite membranes.

Table S1. Tensile properties of nanocomposite membranes

	Young's modulus (MPa)	Yield (MPa)	Strain at break (%)	Stress at break (MPa)
sPEEK	1693.2	37.7	42.7	33.3
SS1.0	1700.3	38.0	56.4	31.6
SS1.5	1732.8	44.8	69.6	37.2
SS2.0	1855.8	51.6	70.8	39.1
SS5.0	2000.3	61.7	63.8	46.8

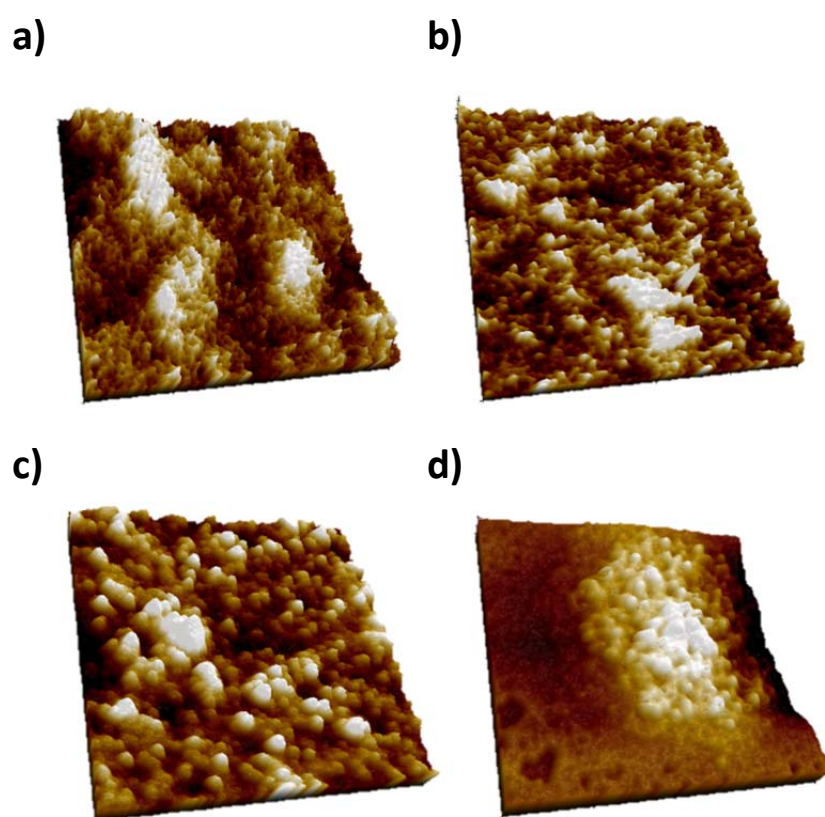


Figure S2. AFM image of (a) sPEEK (1 μm x 1 μm); (b) SS 1.5 (1 μm x 1 μm); (c) SS 2.0 (1 μm x 1 μm); (d) SS 5.0 (1 μm x 1 μm).