Electronic Supporting Information

Flexible Aerogels with Interpenetrating Network Structure of Bacterial Cellulose-Silica Composite from Sodium Silicate Precursor via Freeze Drying Process

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Fig. S1 Photographs of the CAs before (a) and after (b) being compressed. The CAs could keep their integrity even been compressed about 50% (the height of the sample decreased from 2 cm to about 1cm).



Fig. S2 Thermogravimetry analysis (TGA, 10 °C min⁻¹ heating) curves of BC matrix (# 0) and CAs (# 1 to # 9).



Fig. S3 The SEM images with different magnification of CAs (SiO₂ about 96% w/w, # 7) after being wetted and dried again. Compared with Fig. 4, the microstructure of the CAs did not show obvious change.



Fig. S4 The SEM images with different magnification of CAs (SiO₂ about 96% w/w, # 7) after hydrophobization treatment.