B A 14 30 -0.30 12 Zeta potential (mV) 20 10 10 10 0.25 Swelling ratio (%) 0.20 1 L0.15 -0.10 5 0.05 2 0 0.00 0 Day1 Day 3 Day 5 Day 7 Day 9 10 15 Time (h) 20 0 5 25

Fig.S1 Evaluation of colloidal stability of the PEI-AGO. (A) Zeta potential and PDI value of PEI-GO sample. (B) Swelling rate of the PEI-AGO.



Fig.S2 Transformation of the composites in forms of hydrogel (A), aerogel (B) and aerogel immersed in PBS (C).

Supplemental information