Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Fabrication of compressible PU@RGO@MnO_2 hybrid sponge for efficient removal of methylene blue with an excellent recyclability

Na Wang[a], Xiaofeng Li[a*], Jing Yang[a], Yuxia Shen[a], Jin Qu[a], Song Hong[a], Zhong-Zhen Yu[a,b*]

[a] State Key Laboratory of Organic-Inorganic Composites, College of Materials Science and Engineering, Beijing University of Chemical Technology, Beijing 100029, China

[b] Beijing Advanced Innovation Center for Soft Matter Science and Engineering, Beijing University of Chemical Technology, Beijing 100029, China

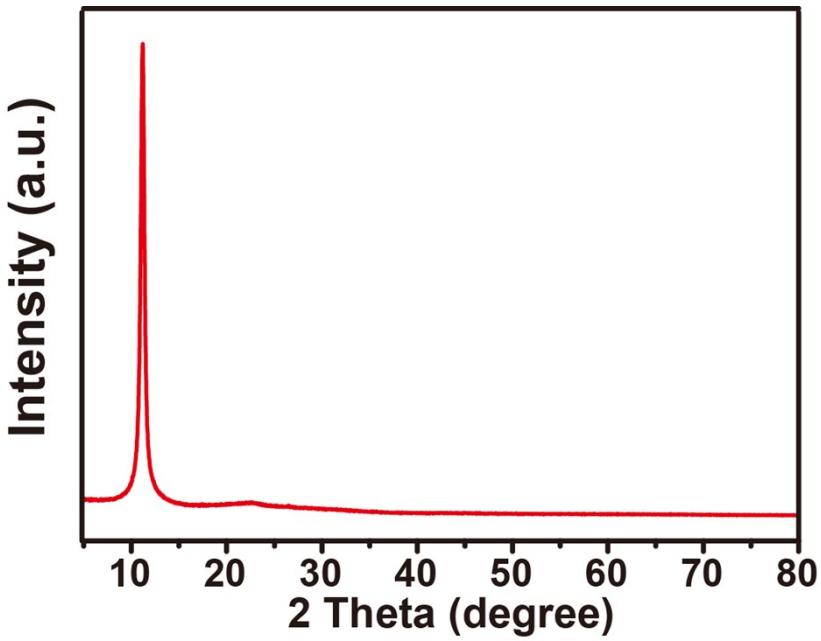

Figure S1. XRD pattern of GO

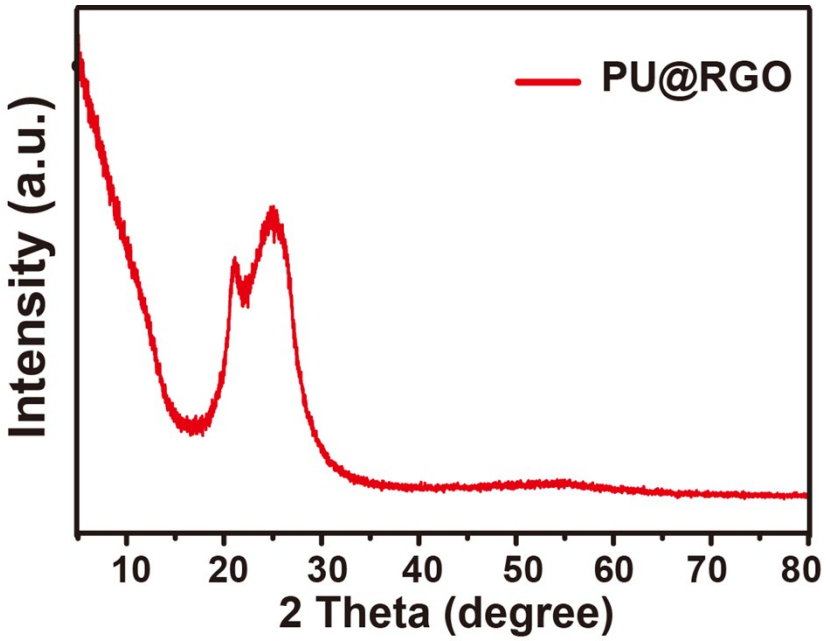

Figure S2. XRD pattern of PU@RGO sponge.

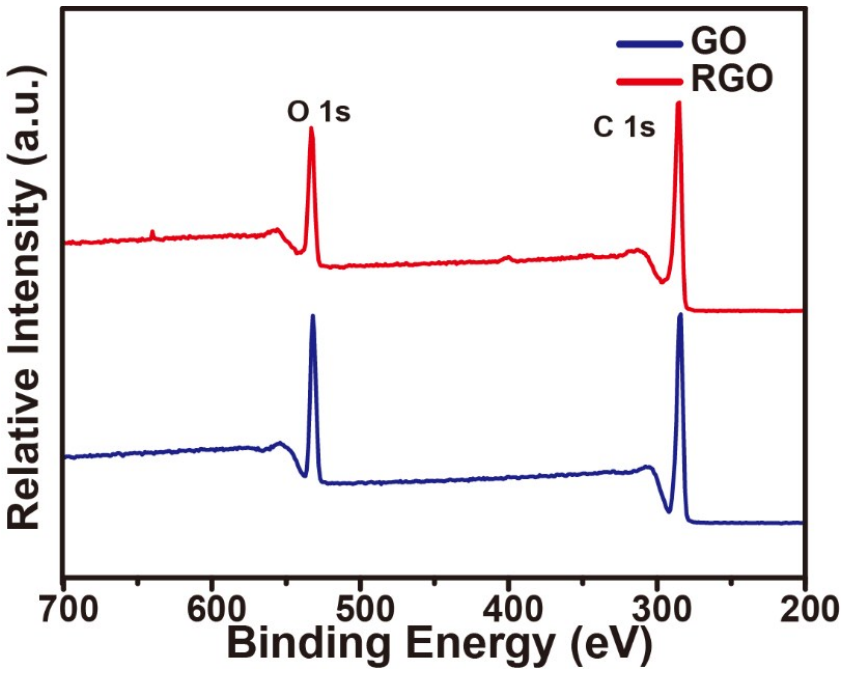

Figure S3. XPS spectra of GO and RGO.

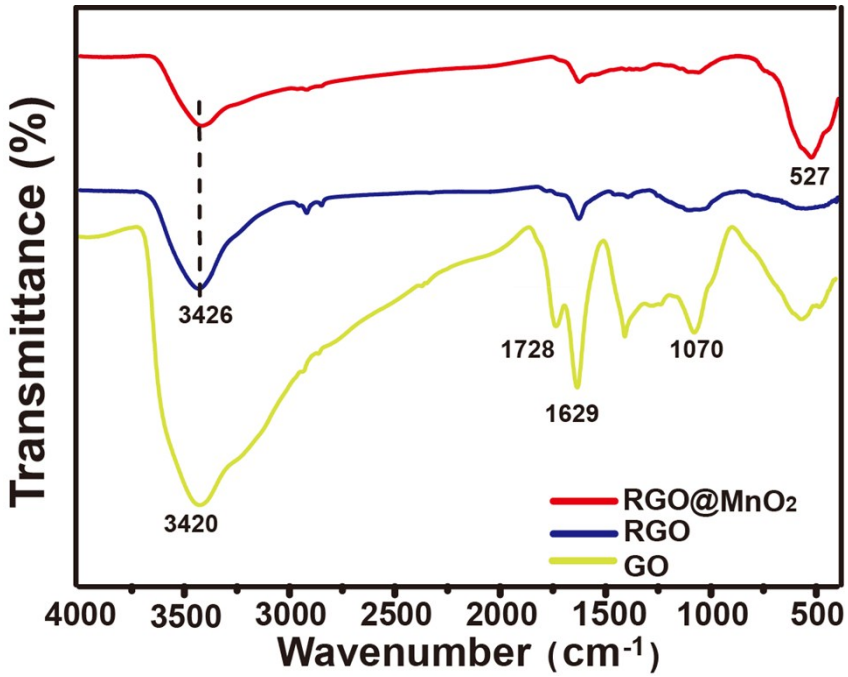

Figure S4. FT-IR spectra of GO, RGO and RGO@MnO_2.

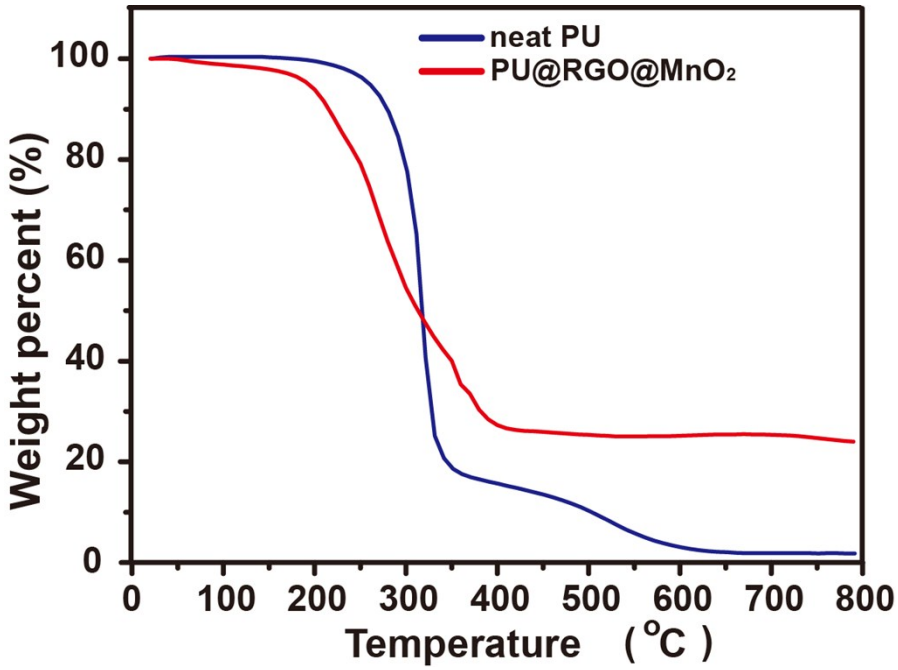

Figure S5. TGA curves of neat PU and PU@RGO@MnO_2 hybrid sponges in air atmosphere.

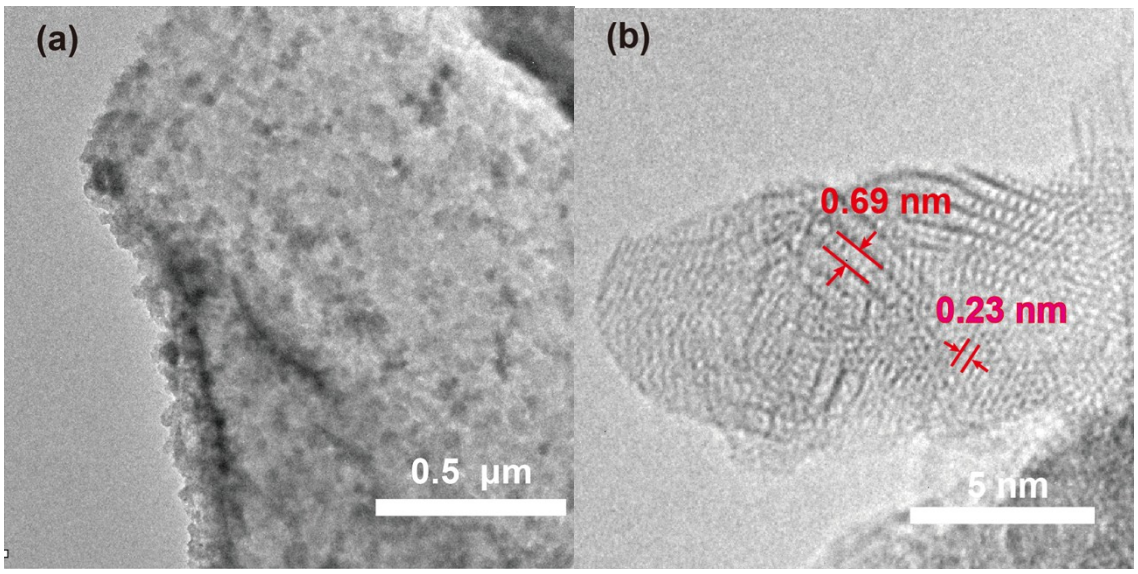

Figure S6. (a) Low and (b) high magnification TEM images of RGO@MnO_2 peeled from the hybrid sponge.

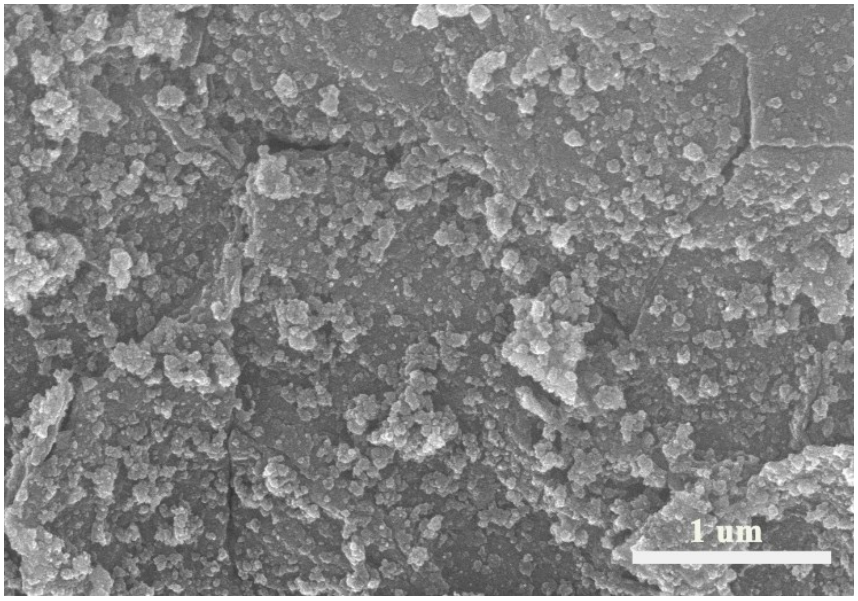

Figure S7. SEM image of the PU@RGO@MnO_2 hybrid sponge after repeated tests.