Electronic Supplementary Information

V$_2$O$_3$-Ordered Mesoporous Carbon Composite with Novel Peroxidase-Like Activity towards Glucose Colorimetric Assay†

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Fig. S1. The XRD patterns of (a) OMC, (b) V$_2$O$_3$–OMC and (c) the standard values of V$_2$O$_3$ (JCPDS 074-0325).
Fig. S2. TGA curves of OMC (a), V$_2$O$_3$-OMC (b) and V$_2$O$_3$ (c).
**Fig. S3.** Photographs of reaction solutions in microplates. The oxidation of various typical chromogenic substrates of ABTS (a,b) and TMB (c,d) without \( \text{V}_2\text{O}_3\text{-OMC} \) (a,c) or with \( \text{V}_2\text{O}_3\text{-OMC} \) (b, d) in the present of \( \text{H}_2\text{O}_2 \).
Fig. S4. EPR spectra of (a) H₂O₂; (b) V₂O₃ + H₂O; (c) V₂O₃ + H₂O₂.
Fig. S5. The calibration curve for H$_2$O$_2$. 
**Fig. S6.** Specificity analysis of spectrophotometric detection of glucose for each 2 mM of glucose (Glu), lactose (Lac), galactose (Gal), maltose (Mal), fructose (Fru), xylose (Xyl), and sucrose (Suc), and 2 mM of Glu in 0.15 M NaCl.