

Supporting Information

MOF-templated controllable synthesis of α -Fe₂O₃ porous nanorods and its gas sensing properties

Pingyi Gao,^a Rong Liu,^a Huihan Huang,^a Xiao Jia,^{*a} and Haibo Pan^{*ab}

^aCollege of Chemistry, Fuzhou University, Fuzhou, Fujian 350116, P. R. China

^bFujian Key Lab of Medical Instrument and Pharmaceutical Technology, Fuzhou University, Fuzhou, Fujian 350002, P. R.China

*Corresponding authors

Tel.: +86-591-83758209; Fax:+86-591-87892632

E-mail address: jiaxiao@fzu.edu.cn, hspan@fzu.edu.cn.

Fig. S1

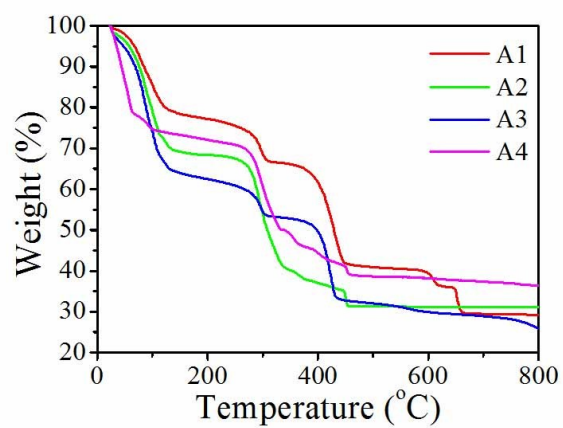


Fig. S1. TGA of as-prepared MIL-88A1-A4 under N₂.

Fig. S2

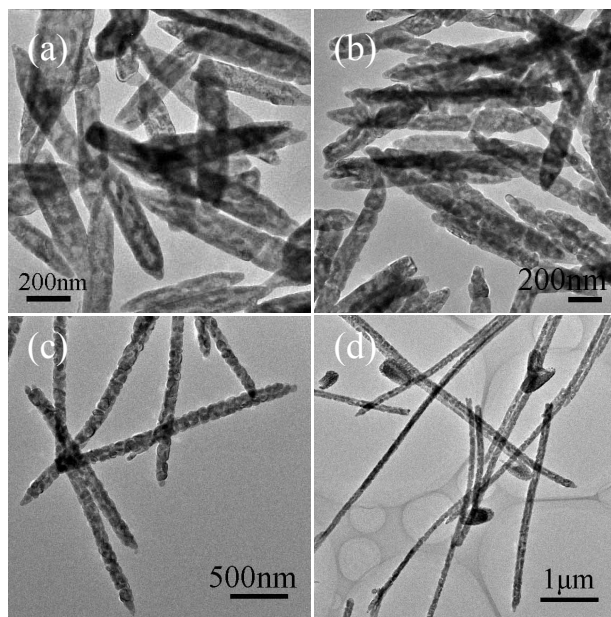


Fig. S2. TEM images of the samples. (a) S1, (b) S2, (c) S3, and (d) S4.

Fig. S3

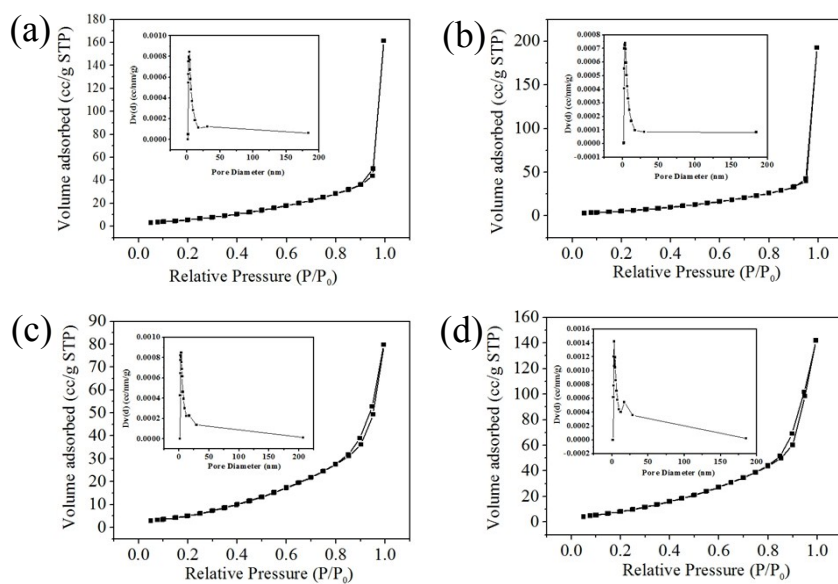


Fig. S3. Nitrogen adsorption-desorption isotherms and the corresponding pore size distribution curves (inset) of the as-prepared samples. (a) S1, (b) S2, (c) S3 and (d) S4.

Fig. S4

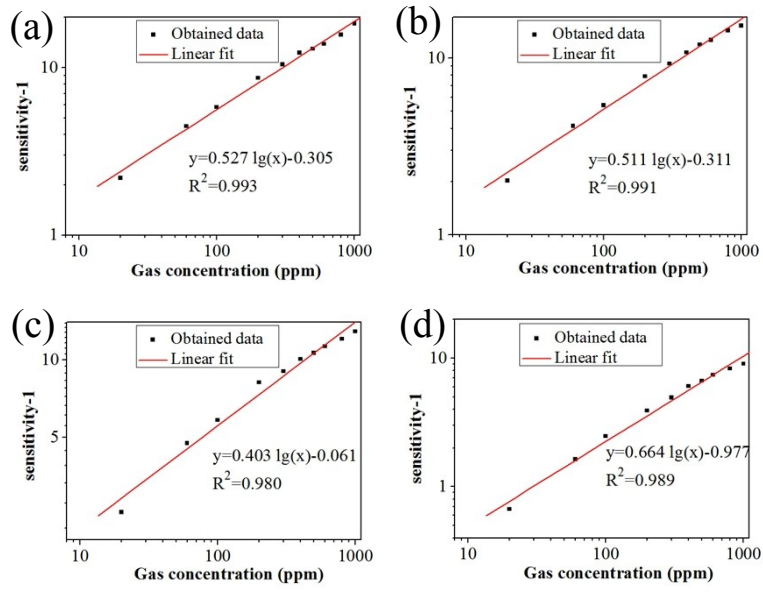


Fig. S4. Plots of $\log(K-1)$ versus $\log C$ for the samples S1-S4 sensors to different concentrations of acetone gas. (a) S1, (b) S2, (c) S3, and (d) S4.