

Supplementary Information:

One-pot synthesis of monodispersed porous CoFe₂O₄ nanospheres on graphene as an efficient electrocatalyst for oxygen reduction and evolution reactions

Wenning Yan¹, Xuecheng Cao¹, Ke Ke², Jinghua Tian¹, Chao Jin¹ and Ruizhi Yang^{*1}

¹ College of Physics, Optoelectronics and Energy & Collaborative Innovation Center of Suzhou Nano Science and Technology, Soochow University, Suzhou, Jiangsu 215006, China.

² Chilwee group, Changxing, Zhejiang 313100, China.

* Corresponding author: Tel.: +86 512 65221519.

E-mail: yangrz@suda.edu.cn

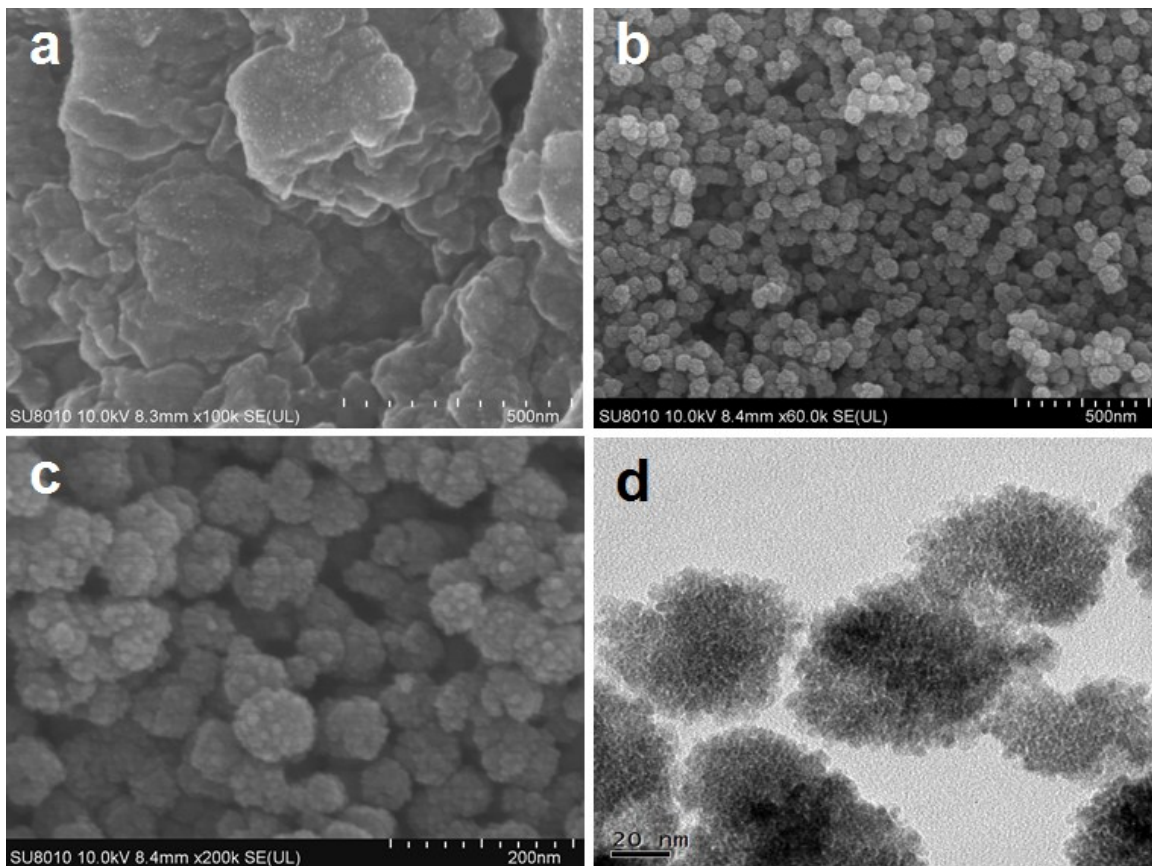


Fig. S1—(a) SEM image of CFO without the addition of PVP; (b) and (c) SEM images of the CFO-ns with different magnification; (d) TEM image of the CFO-ns.

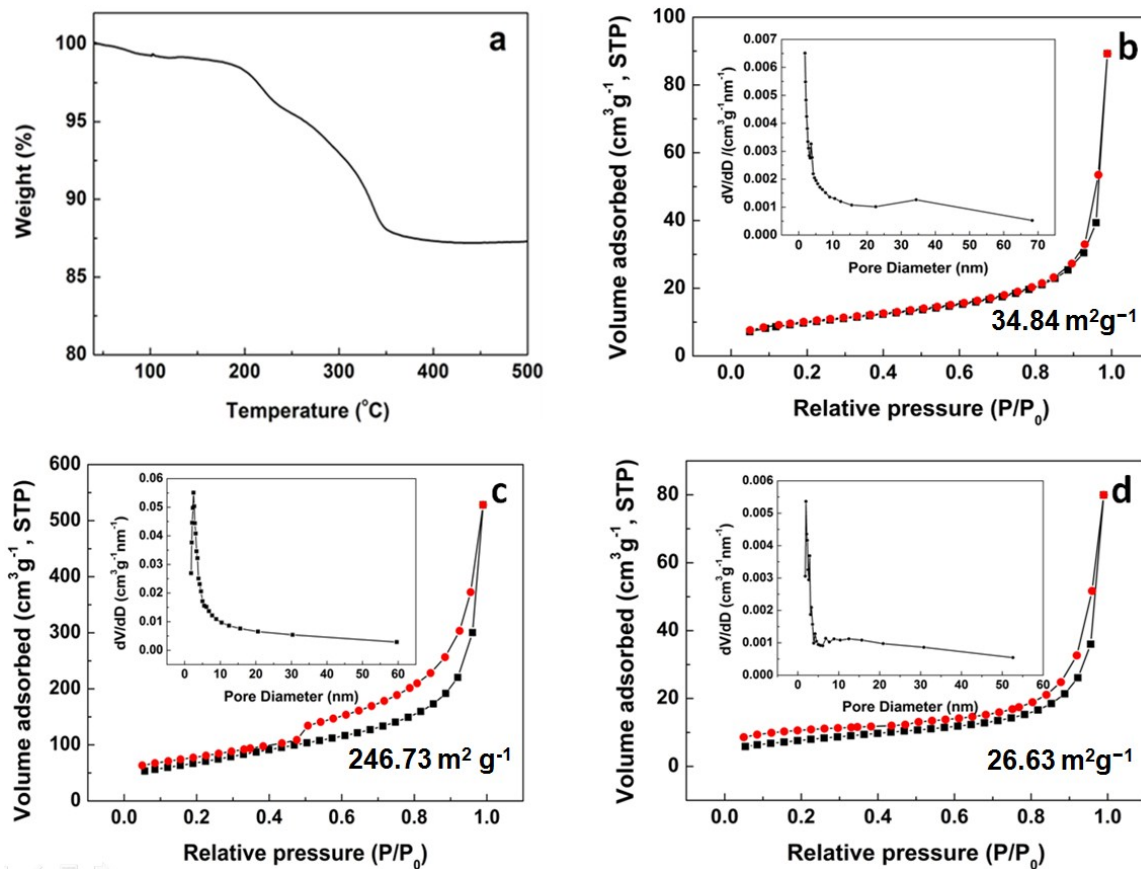


Fig. S2—(a) Thermogravimetric analysis (TGA) of the CFO-ns/N-rGO; (b-d) BET surface area and pore size distribution (inset) for CFO-ns/ rGO, rGO and CFO-ns.

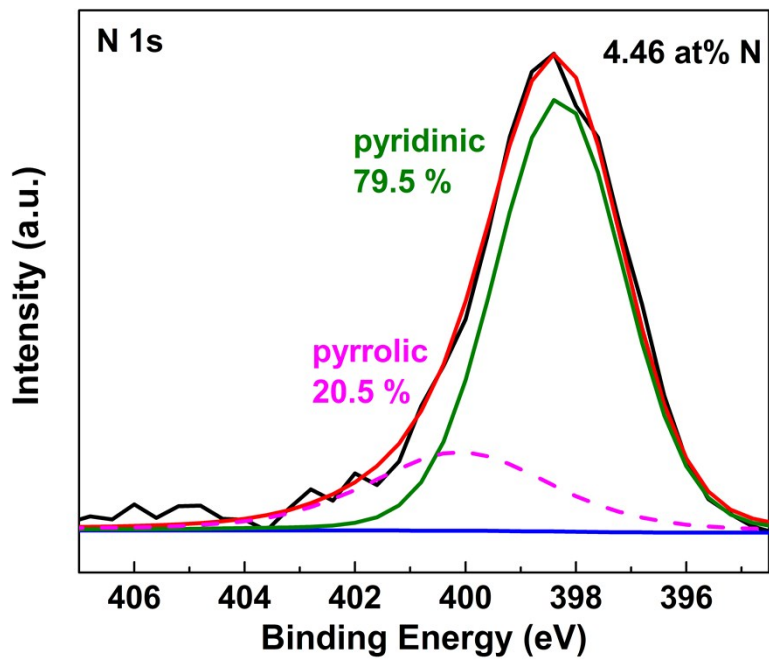


Fig. S3—Deconvoluted XPS spectra of N 1s in CFO-nS/N-rGO.

Table S1—The content of metallic ions in CFO-ns/rGO measured by ICP

Element	Wavelength (nm)	Concentrations of metal ions (mg/L)
Co	228.616	12.94
Fe	238.204	26.21
momolar ratio of Fe/Co	—	2.03