Electronic Supplementary Information

Zinc-air battery assisted self-powered electrochemical sensor for sensitive detection of microcystin-RR

Qianjun Wang,[a] Ding Jiang,[a,*] Xiaojiao Du,[b] Xueling Shan,[a] Wenchang Wang,[a,d] Hiroshi Shiigi,[c] Zhidong Chen[a,*]

[a] *Jiangsu Key Laboratory of Advanced Catalytic Materials and Technology, School of Petrochemical Engineering, Changzhou University, Changzhou, Jiangsu, 213164, P. R. China*

[b] *Oakland International Associated Laboratory, School of Photoelectric Engineering, Changzhou Institute of Technology, Changzhou, Jiangsu, 213032, P. R. China*

[c] *Department of Applied Chemistry, Osaka Metropolitan University, 1-1 Gakuen, Naka, Sakai, Osaka 599-8531, Japan*

[d] *Analysis and Testing Center, NERC Biomass of Changzhou University, Jiangsu, 213032, PR China*

∗Corresponding author.
Tel: +86 519 86330239
E-mail address: jiangding@cczu.edu.cn (D. Jiang); zdchen@cczu.edu.cn (Z. Chen)

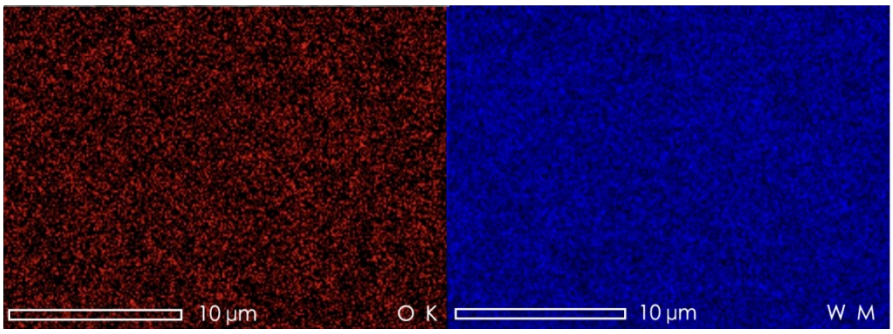

Fig. S1 EDS element mapping of WO_3 film.

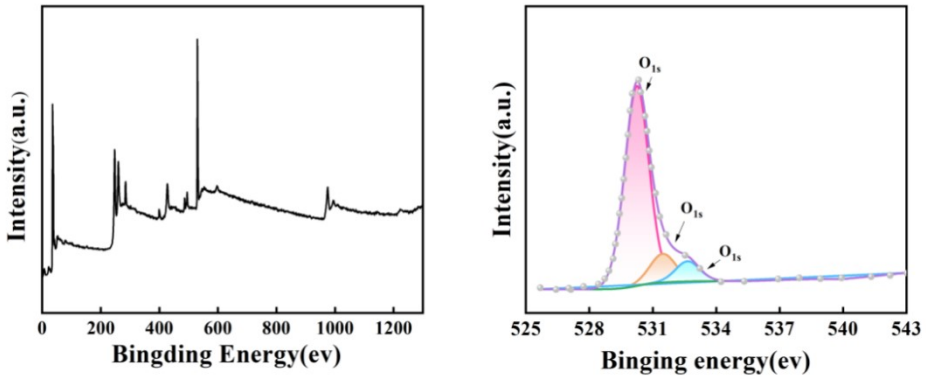

Fig. S2 XPS survey and O_{1s} spectra of WO_3 film.

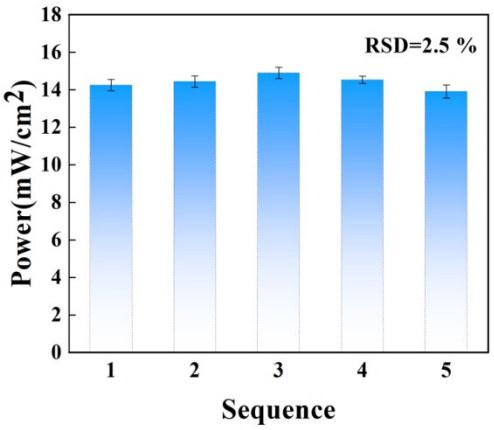

Fig. S3 Reproducibility of self powered aptasensor