

Supporting Information

Optical strategy for detecting hypochlorite in vitro and cell with high selectivity and stability based on lanthanide doped upconversion probe

Yuting Liu^{1,2}, Shiping Zhan^{1,2*}, Xin Su^{1,2}, Guozheng Nie^{1,2*}, Xiaofeng Wu^{3*}, Yunxin Liu^{1,2}

¹ School of Physics and Electronic Science, Hunan University of Science and Technology, Xiangtan, 411201, China.

² Hunan Province Key Laboratory of Intelligent Sensors and Advanced Sensor Materials, Xiangtan, 411201, China.

³ School of Mechatronic Engineering and Automation, Foshan University, Foshan, 528000, China.

*Corresponding author: spzhan86@163.com, gzhnie@hnust.edu.cn, xfwuvip@126.com

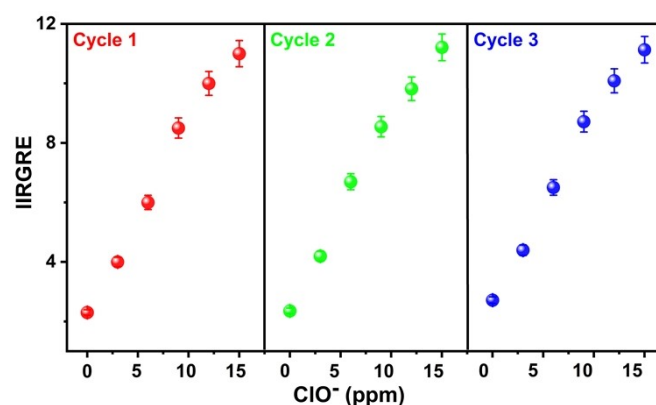


Fig. S1 The linear graph of IIRGRE and ClO⁻ concentrations was repeated 3 times.

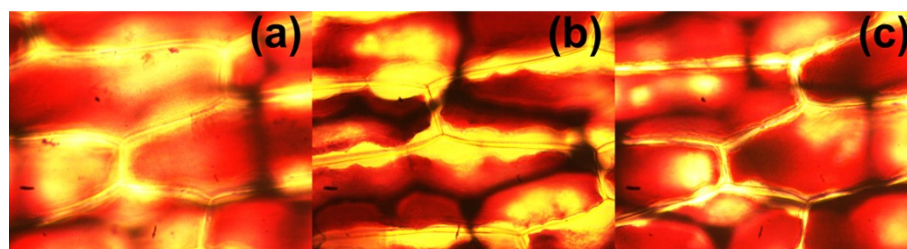


Fig. S2 (a) Onion cells loaded with probes; (b) Plasmolysis; (c) Deplasmolysis.

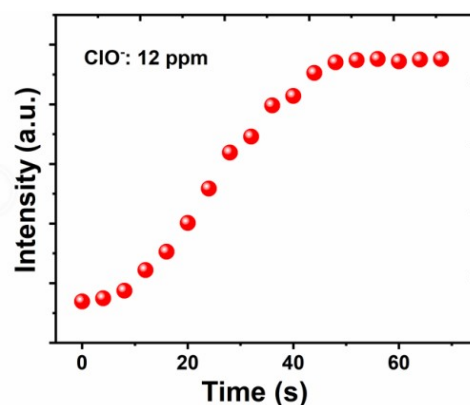


Fig. S3 Kinetic analysis of the surface modified upconversion probe towards ClO⁻.