

# Advance your career in science

with professional recognition that showcases  
your **experience, expertise and dedication**

## Stand out from the crowd

Prove your commitment  
to attaining excellence in  
your field

## Gain the recognition you deserve

Achieve a professional  
qualification that inspires  
confidence and trust

## Unlock your career potential

Apply for our professional  
registers (RSci, RSciTech)  
or chartered status  
(CChem, CSci, CEnv)

## Apply now

[rsc.li/professional-development](https://rsc.li/professional-development)



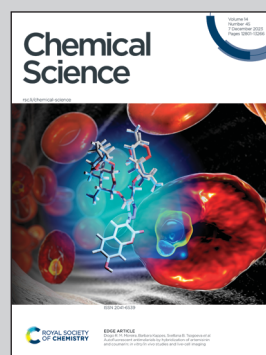


**Showcasing research from Professor Wu's laboratory,  
School of Public Health, Nantong University, P. R. China.**

A dual-responsive ratiometric indicator designed for *in vivo* monitoring of oxidative stress and antioxidant capacity

A dual-responsive indicator, comprising two adjustable quinolinium units, demonstrated outstanding selectivity and sensitivity for  $\text{H}_2\text{O}_2$  and  $\text{NAD(P)H}$  in living cells. This indicator was subsequently employed to evaluate the cellular oxidative stress and antioxidant capacity in cardiac muscle cells and liver cells during the occurrences of acute myocardial infarction and exposure to trichloroethylene. The precise detection of  $\text{H}_2\text{O}_2$  and  $\text{NAD(P)H}$  *in vivo* further expands its potential application in other disease metabolomics research.

**As featured in:**



See Qi Wang, Ziwei Chen,  
Li Wu *et al.*,  
*Chem. Sci.*, 2023, **14**, 12961.