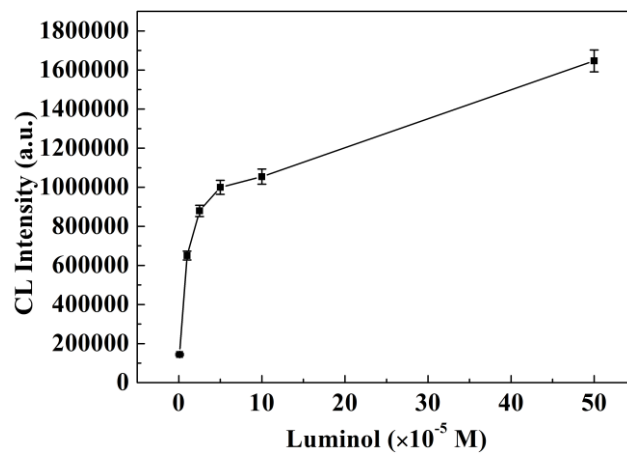Electronic Supplementary Information

A novel microarray chemiluminescence method based on chromium oxide nanoparticles catalysis for indirect determination of the explosive Triacetone Triperoxide at the scene
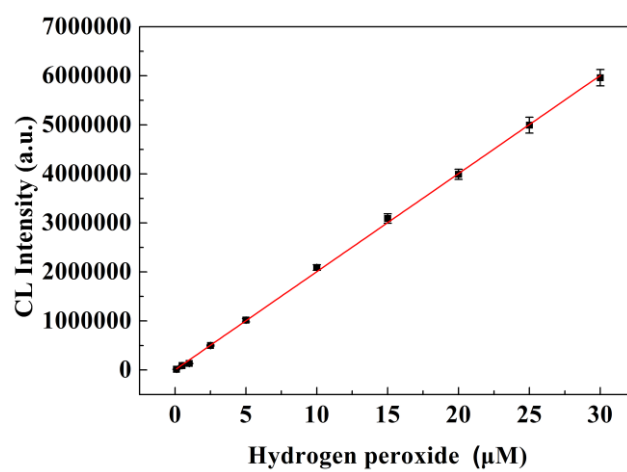
Xiaohua Li, Zhujun Zhang*, Liang Tao

Fig. S1.The effect of luminol concentration on the CL intensity. Experimental parameters: pH 12.0 luminol, 1×10^{-6} M H_2O_2 and 1×10^{-5} g.L^{-1} Cr_2O_3 nanoparticles
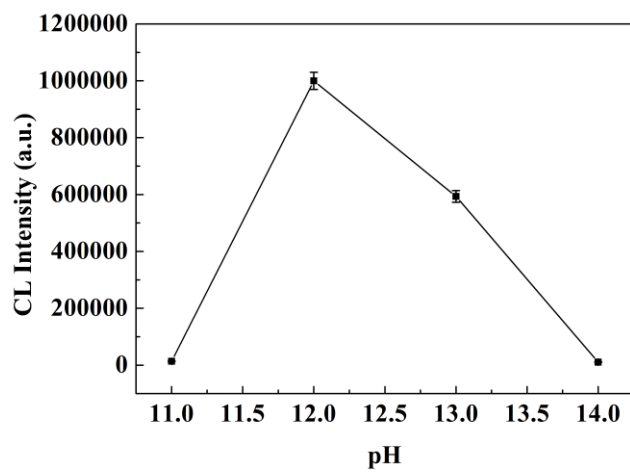
Fig. S2. The effect of pH on the CL intensity. Experimental parameters: 5×10^{-5} M luminol,1×10^{-6} M H_2O_2 and 1×10^{-5} g.L^{-1}Cr$_2$O$_3$ nanoparticles.

Fig. S3. Calibration graph for H_2O_2 Experimental parameters: pH 12.0, 5×10^{-5} M luminol, , and 1×10^{-5} g.L^{-1} Cr_2O_3 nanoparticles.
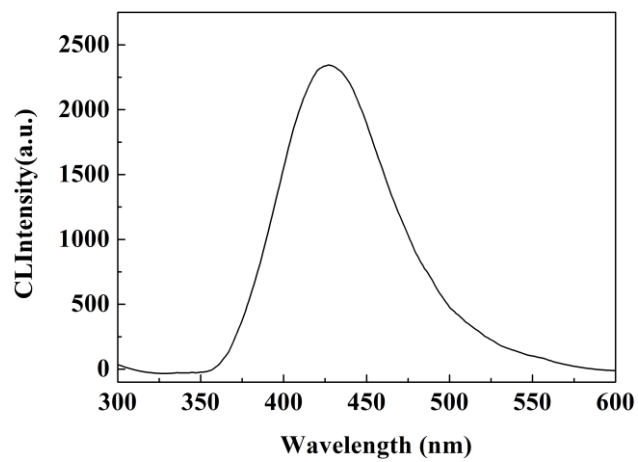
Fig. S4. CL spectra of luminol–H_2O_2- Cr_2O_3 nanoparticles. Experimental condition: pH =12.0,1×10^{-4} M luminol, 1×10^{-3} M H_2O_2, 1×10^{-5} g.L^{-1} Cr_2O_3 nanoparticles.