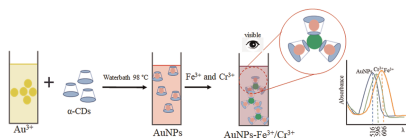


## In this issue

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### Gold nanoparticles capped with $\alpha$ -cyclodextrin for dual colorimetric sensing of $\text{Fe}^{3+}$ and $\text{Cr}^{3+}$ in tap water



<https://doi.org/10.1515/pac-2024-0211>

Pure Appl. Chem. 2025; 97(3): 203–216

Yin-Chiung Chang, Kuo-Hui Wu,

Je-Chuang Wang and Wen-Chien Huang

### ImageJ and smartphone app chemistry analyzer using image-based colorimetric assay for quantitative detection of melamine

<https://doi.org/10.1515/pac-2024-0254>

Pure Appl. Chem. 2025; 97(3): 235–244

A smartphone-assisted microchemistry analyzer with an image-based colorimetric assay using ImageJ and a smartphone app detection method is successfully developed for the quantitative detection of melamine (MEL). The color changes of the MEL in the colloidal gold lateral flow immunoassay strip are captured and analyzed using a smartphone-controlled analyzer with an LED light source and a smartphone camera.

