

Special Issue

Smartphone Integrated Analytical Chemistry: Innovations in Mobile, Low Cost, and Portable Sensing

Message from the Guest Editor

The integration of smartphone cameras, processors, wireless communication modules, and app-based computational tools has enabled the creation of low-cost, portable, and user-friendly analytical platforms that are capable of performing chemical, biochemical, environmental, and forensic analyses outside traditional laboratory settings.

We are seeking original research papers, reviews, case studies, and methodological advances that address (but are not limited to) the following topics:

- Smartphone-based digital image colorimetry (DIC) for quantitative chemical analysis.
- Mobile electrochemical sensing using smartphone-readout devices.
- Optical, fluorescence, and spectrometric smartphone attachments.
- App-driven field-deployable analytical platforms.
- Low-cost sensors for environmental and water-quality monitoring.
- Forensic applications, including rapid drug screening, drink-spiking detection, and point-of-need toxicology.
- Clinical and biomedical diagnostics using mobile sensing technologies.
- Machine learning-enhanced mobile chemical analysis.
- The design, fabrication, and validation of mobile-compatible analytical devices.

Guest Editor

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Message from the Editor-in-Chief

Editor-in-Chief

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