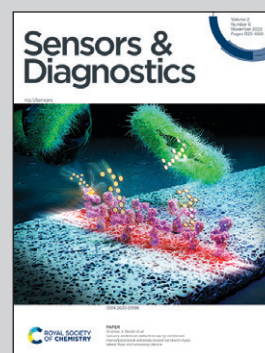


Showcasing research from Professors Schultz's and Freeman's laboratories, Department of Chemistry and Biochemistry, The Ohio State University, Columbus, Ohio, United States & Department of Applied Physical Sciences, University of North Carolina, Chapel Hill, North Carolina, United States.

From the lab to the field: handheld surface enhanced Raman spectroscopy (SERS) detection of viral proteins

Challenges in adapting surface-based tests common to labs to colloid-based assays that are readily implemented in point of need environments are investigated. Utilizing a peptide capture probe, a simple and cost-efficient nanoparticle-based assay produces a unique surface enhanced Raman signal upon binding to the SARS-CoV-2 virus spike protein was optimized with a portable handheld Raman spectrometer.

### As featured in:



See Schultz, Freeman *et al.*,  
*Sens. Diagn.*, 2023, 2, 1483.