

ANALYTICAL SEMINAR

Surface-Enhanced Raman Spectroscopy: Detection of Nanoplastics in Aquatic Environments

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Surface-Enhanced Raman Spectroscopy (SERS) is a substrate-enhanced technique that boosts the Raman scattered signal from an analyte. This technique has recently been shown to lend itself well to the analysis of nanoplastics in aquatic environments, as it is non-destructive, specific, and highly sensitive. As the application of this technique to nanoplastics is relatively new, some challenges remain, such as the irregular shape of the nanoplastics and the widely scattered nature of the nanoplastics on the surface of the substrate. This presentation will cover the fundamentals of SERS and several recent papers which attempt to address these two challenges which the technique faces.



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3:30 pm



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