Automated Particle-Resolved Colloidal Characterization

• Analyzing in-line holograms of colloidal particles yields particle-by-particle measurements of particle radius, $a_p$, with 1 nm precision and refractive index, $n_p$, to within a part per thousand.

• No other technique offers such a wealth of characterization data.

• Using microfluidics to amass single-particle statistics yields model-independent population distributions that are useful for developing novel syntheses and controlling reactions.