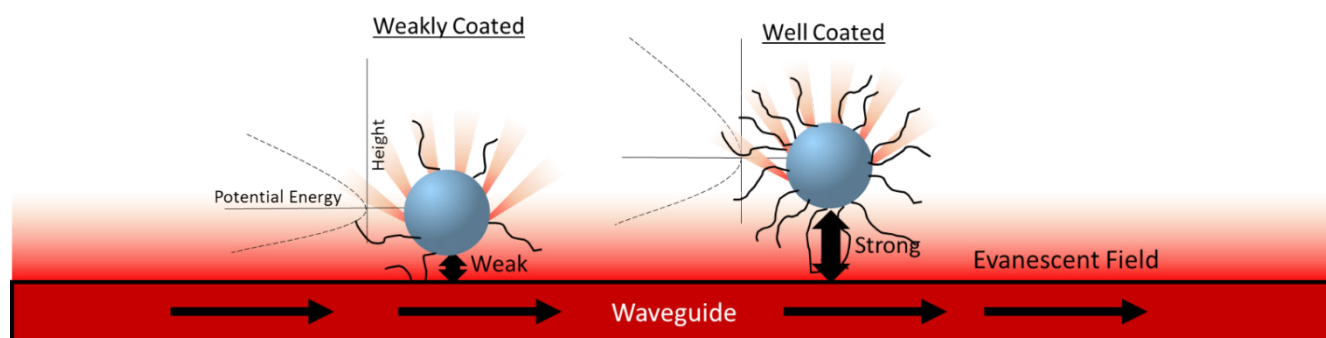


Trapping and analyzing particles with Optofluidics' NanoTweezer

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We present the market's latest particle analysis system. The NanoTweezer Surface uses cutting edge nanophotonics and microfluidics to analyze nanoscale particles in solution, chiefly characterizing their size and their surface properties, simply not possible with current instrumentation. The device uses near field optics to impart optical forces that drive the particles to interact against a reference surface, and by measuring the amount of light these particles scatter, the NanoTweezer Surface characterizes the interaction potential to infer the surface properties of the particle. Researchers are using our tool in nanomedicine and nanotoxicity to measure weak and non-ionic interactions such as those imparted when a particle is PEGylated, as well as assess ligand coverage during surface functionalization. The system allows researchers to better assess formulation stability, particle surface coverage and offers key new insights to make better colloidal systems. We will dive into the device physics as well as offer case studies.



Biography:

Ms. Li is technical sales and marketing lead at Optofluidics. She earned 2 Master's Degree (Materials Science & Electrical Engineering) from UPenn and her Bachelor's Degree of Materials Science from Tsinghua University.