

# Colloidal Particles At Liquid Interfaces

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~~Spherical atomic radial distribution function  $g(r)$  calculation in VMD Plasmons, Hot Electrons, and Nanoscale Heat Transfer – Naomi Halas~~ **Colloidal Particles At Liquid Interfaces**

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Abstract. The adsorption of colloidal particles to fluid interfaces is a phenomenon that is of interest to multiple disciplines across the physical and biological sciences. In this review we provide an entry level discussion of our current understanding on the physical principles involved and experimental observations of the adsorption of a single isolated particle to a liquid–liquid interface.

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In both cases, their physical properties differ from those of isotropic particles, making them potentially useful for assembling photonic crystals with novel symmetries, colloidal substitutes for liquid crystals and electrorheological fluids.<sup>1,2</sup> Other applications of anisotropic colloids include the control of suspension rheology and optical properties,<sup>2,3</sup> stabilization of emulsions<sup>4</sup> and foams<sup>5</sup> and engineering of biomaterials<sup>6</sup> and complex colloidal composites.<sup>7</sup>

Colloidal particles at liquid interfaces - Orlin D. Velev

COLLOIDAL PARTICLES AT LIQUID INTERFACES. Small solid particles adsorbed at liquid interfaces arise in many industrial products and processes, such as anti-foam formulations, crude oil emulsions and flotation. They act in many ways like traditional surfactant molecules, but offer distinct advantages. However, the understanding of how these particles operate in such systems is minimal.

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