

**Optical tweezers (Technion)****code:** CHM-1034

New devices and technologies rely on “micro pumps” to transport fluids. Our technology allows beams of light to manipulate the local density of particles suspended in liquids or gases. It can be used to control the physical and chemical properties of the fluid, and to manipulate particles of various sizes, ranging from micrometers to nanometers. At the micro and nano-scale, the optical pump has a higher efficiency as compared to rotating mechanical pumps, while having no moving parts. This technology has applications in nanotechnology, micro-chemistry, holography, and many more.

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