

HARNESSING CAVITY COUPLED QUANTUM DOTS FOR PHOTONICS

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Since their discovery in 1981-82 culminating with the Nobel Prize in Chemistry in 2023 colloidal quantum dots have emerged as a novel material with unique electrical and optical properties. In this lecture I will provide overview of the manifold photonic phenomena which arise due to coupling of colloidal quantum dots to optical cavities. Finally, I will discuss some of our own work in this area using colloidal quantum dot assemblies coupled to plasmonic and photonic metasurface cavities.

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2:00 PM

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