



Collective Plasmonic-Molecular Modes in the Strong Coupling Regime



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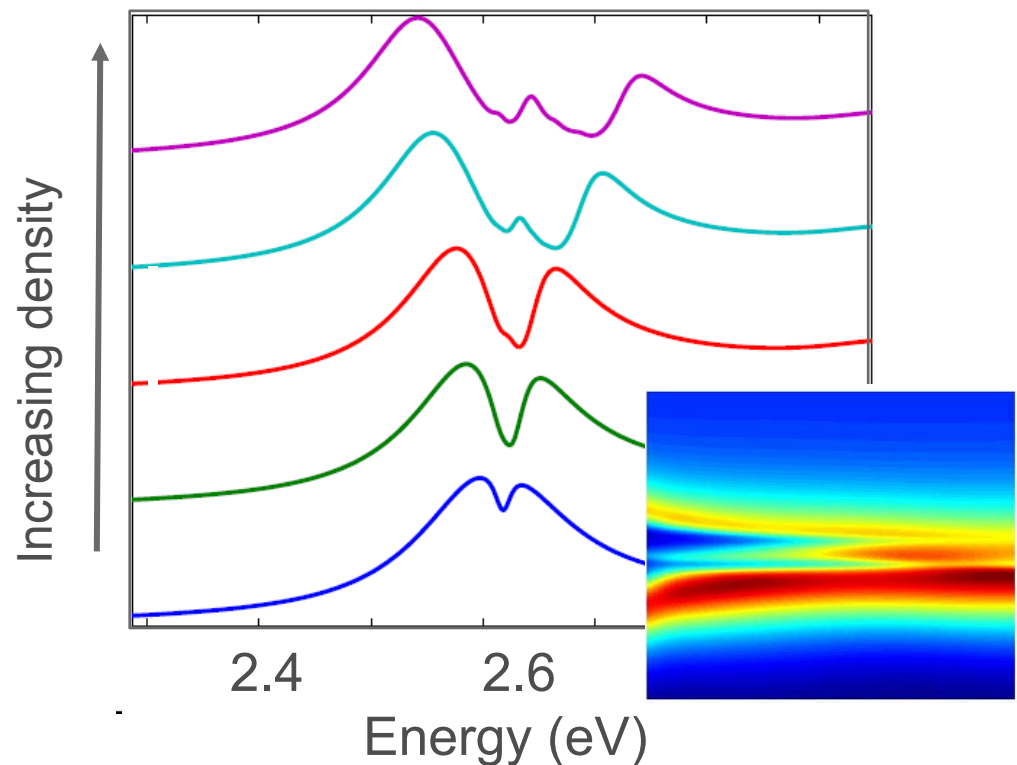
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A recent study of the Seideman group with international collaborators, unravels a new and fascinating phenomenon in strongly coupled molecules-nanoconstruct systems, namely, the emergence of a new spectral mode associated with collective, plasmon-induced interaction among the molecules. Ongoing work explores applications of the unique properties of the discovered mode, ranging from solar energy conversion to plasmon-enhanced spectroscopies and sensing.



Transmission spectra illustrating the emergence of a new, nondispersive mode. The inset gives the transmission vs the distance of the molecules from the plasmonic array.



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