Supplementary Information

Plasmonic Tilted Nanocavity Modulation of Quantum Dot Lu-minescence

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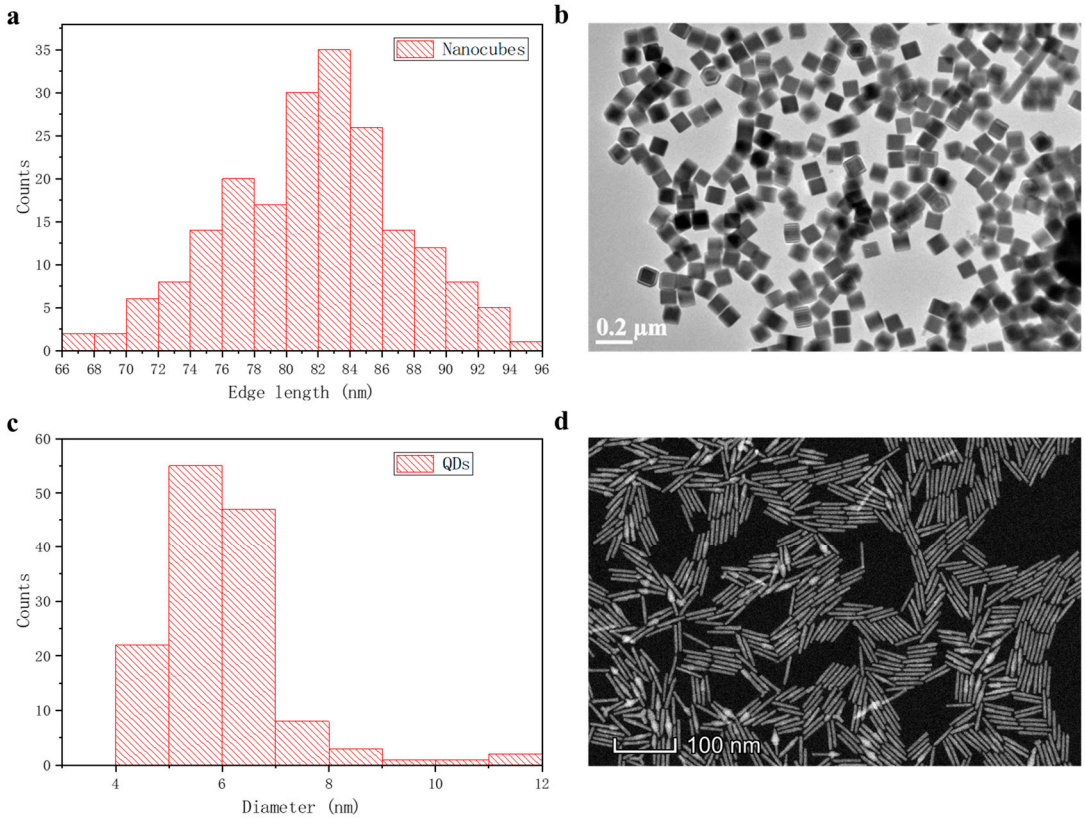


Figure S1. (a) Size distribution histogram of silver nanocube edge lengths (N=200), with a mean ± SD of 82 ± 5 nm; (b) TEM image of silver nanocubes (scale bar: 0.2 μm); (c) Size distribution histogram of CdSe/CdS nanorod diameters (N=139), with a mean ± SD of 6 ± 1 nm; (d) HAADF-STEM image of rod-shaped CdSe/CdS nanorods (scale bar: 100 nm).

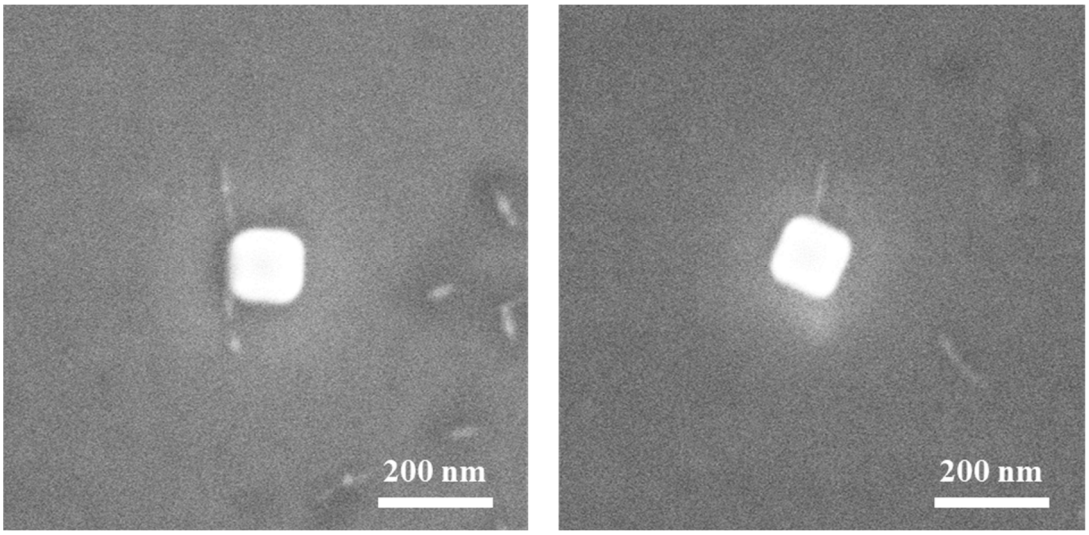


Figure S2. The SEM characterization image of the individual CdSe/CdS nanorod-coupled tilted nanocavities.

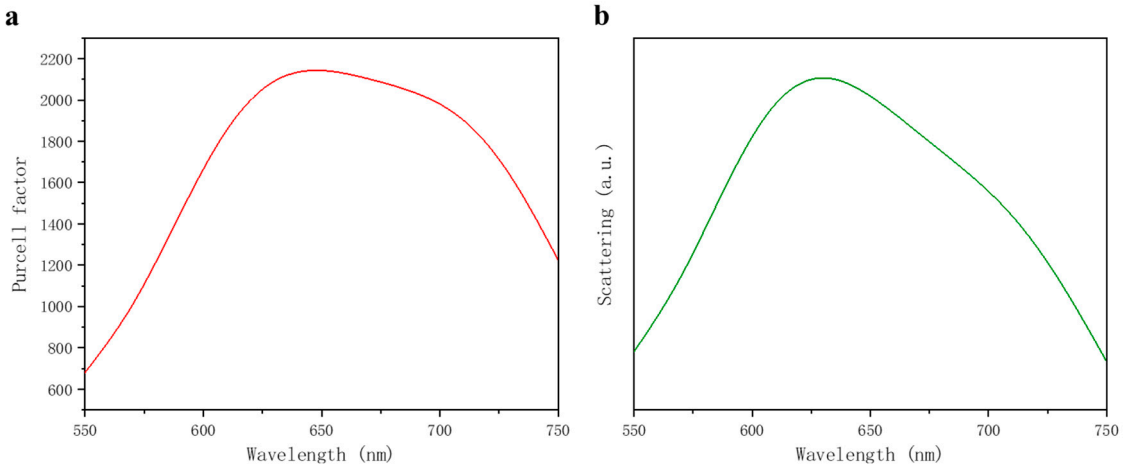


Figure S3. Numerical simulations of the plasmonic nanocavity properties. (a) Calculated Purcell factor spectrum as a function of wavelength, obtained by integrating the radiated power of a point dipole located at the center of the gap. (b) Simulated scattering cross-section of the nanocavity structure.