

Optical Forces and Field Dynamics in Gain-Enhanced Plasmonic Nanostructures: Toward Single-Particle Nanolasers

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We study optical forces and trapping of hybrid quantum-plasmonic nanoparticles with a metal nanoshell and a gain-enriched core, below and above the emission threshold.

This opens perspectives for single-particle nanolaser with potential for quantum-enhanced plasmonics.

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