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In this way, collective plasmon-modes in a gain medium result from the interaction/coupling between a quantum emitter (created by rare-earth ions) with a metallic surface, inducing different effects such as the polarization of the metal electrons (so-called surface plasmon polariton - SPP), a field enhancement sustained by resonance coupling ...

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One is associated with the optically active bright dipolar ($l=1$) surface plasmon (SP) modes, and the other one, dominating, is associated with dark plasmons, which are induced by multipolar interaction ($l>1$) between the dipoles of the gain medium and the metal and dissipate in the metal without converting their energy to radiation, and so the photon radiation of the plasmonic nanostructure is largely quenched by Ohmic losses.

Cooperative plasmon-mediated effects and loss compensation ...

The high energy T-mode at 373 nm and the lower energy T-mode at 527 nm are new collective plasmonic modes for the Au-Ag heterodimer, which exhibits a dipole-quadrupole (DQ) mode and a dipole-dipole (DD) mode in the surface charge pattern.

Collective plasmon modes in a compositionally

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In this way, collective plasmon-modes in a gain medium result from the interaction/coupling between a quantum emitter (created by rare-earth ions) with a metallic surface, inducing different effects such as the polarization of the metal electrons (so-called surface plasmon polariton - SPP), a field enhancement sustained by resonance coupling, or transfer of energy due to non-resonant coupling between the metallic nanostructure and the optically active surrounding medium.

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Gain A. Femius Koenderink* Center for Nanophotonics, AMOLF, Science Park 104, 1098XG Amsterdam, The Netherlands
ABSTRACT: Plasmon nanocavity array lasers leverage the combination of locally enhanced electromagnetic fields at localized particle plasmons with collective diffractive effects in periodic lattice geometries for low-threshold lasing

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Local enhancement of the pump light defines a spatially inhomogeneous pumping of the gain medium. Tight confinement of the lattice plasmon modes means that modes compete for the gain preferentially in hot spots ~ 20 nm across (Figure 2c).

Finally, Purcell enhancement effects change the dynamics of spontaneous emission as another strongly spatially dependent factor entering the gain medium dynamics.

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