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Plasmon Nanocavity Array Lasers: Cooperating over Losses ...

Cooperative plasmon-mediated effects and loss compensation by gain dyes near a metal nanoparticle Vitaliy Pustovit,^{1,2,*} Filippo Capolino,³ and Ashod Aradian¹ ¹Centre de Recherche Paul Pascal, CNRS, Avenue A. Schweitzer, 33600 Pessac, France ²United States Air Force Research Laboratory, WPAFB, Ohio 45433, USA ³Department of Electrical Engineering and Computer Science, University of California ...

Collective Plasmon Modes in Nanoparticle Assemblies | UCI ...

Plasmon lasers can support ultrasmall mode confinement and ultrafast dynamics with device feature sizes below the diffraction limit. However, most plasmon-based nanolasers rely on solid gain materials (inorg. semiconducting nanowire or org. dye in a solid matrix) that preclude the possibility of dynamic tuning.

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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),...

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Collective Plasmon-Modes in Gain Media : This book represents the first detailed description, including both theoretical aspects and experimental methods, of the interaction of rare-earth ions with surface plasmon polariton from the point of view of collective plasmon-photon interactions via resonance modes (metal nanoparticles or nanostructure arrays) with quantum emitters (rare-earth ions).

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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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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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Plasmon Nanocavity Array Lasers: Cooperating over Losses and Competing for Gain ... refractive index and gain medium). BASIC PRINCIPLES OF PLASMON LATTICE LASING To appreciate the forefront of plasmon nanocavity array laser ... The first puzzle relates to the long-range collective modes, that is, the nature of the band structure underlying ...

Collective Plasmon-Modes in Gain Media - V.A.G. Rivera, O ...

Title: Collective Plasmon-Modes in Gain Media: Authors: Rivera, V. A. G.; Silva, O. B.; Ledemi, Y.; Messaddeq, Y.; Marega, E. Publication: Collective Plasmon-Modes in ...

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These collective plasmon modes are compared to plasmon antenna modes of continuous nanorods with varying length and width. Furthermore, we have developed a fluorescence based method to visualize plasmon propagation in one-dimensional nanostructures.

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Abstract. The focus of this book was on introducing solid concepts about collective plasmon modes in gain media, centered on the interaction/coupling between a quantum emitter (QE) (created by rare-earth ions (REI)) with a metallic nanostructure.

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Collective plasmon modes in nanoparticle assemblies ... allows one to gain a detailed understanding about collective plasmon modes. ... while the far-field exhibits a blue shift of the collective ...

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