

# Cavity Polaritons

by Alexey Kavokin; Guillaume Malpuech

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Bragg Cavity Polaritons in Disordered Planar Lattices. M. Grochol and C. Piermarocchi. Department of Physics and Astronomy, Michigan State University, East ... Cavity polaritons in microcavities containing disordered organic semiconductors. V. M. Agranovich. Institute for Spectroscopy, Russian Academy of Sciences, ... Optomechanics with Cavity Polaritons: Dissipative Coupling and . Theory of Cavity-Polariton Self-Trapping and Optical Strain in . Excitons in microcavities: Cavity polariton photoluminescence . temperature. We report the observation of cavity polaritons in bulk ZnO-based hybrid microcavities ... coupled exciton-photon mode, namely, cavity polaritons,2. Photoluminescence dynamics of cavity polaritons under resonant . New effects of polarization multistability and polarization hysteresis in a coherently driven polariton system in a semiconductor microcavity are predicted and . Room-temperature Bose–Einstein condensation of cavity exciton . Feb 19, 2014 . We show that due to the mixing of cavity photon and exciton states, the emergent quasiparticles/char22{}polaritons/char22{}possess coupling to ... Linewidth-narrowing phenomena with intersubband cavity polaritons

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May 30, 2014 . Absorption spectra of strongly coupled intersubband cavity polaritons have been measured, using a tunable midinfrared quantum cascade ... Cavity polaritons in ZnO-based hybrid microcavities - VCU Scholars . We present a calculation of time-resolved photoluminescence of cavity polaritons including scattering by acoustic phonons. Under resonant excitation to the ... We congratulate our colleagues Oleksandr Kyriienko, Timothy Liew, and Ivan Shelykh with publication in Physical Review Letters titled Optomechanics with . Stimulated scattering and lasing of intersubband cavity polariton . Cavity Polaritons, Volume 32 (Thin Films and Nanostructures) [Alexey Kavokin, Guillaume Malpuech] on Amazon.com. \*FREE\* shipping on qualifying offers. Cavity polaritons: from fundamental physics to non-linear and . polaritons physics - quantum materials and applications Theory of intersubband polariton scattering induced by optical phonons. Non bosonicity effects. Lasing of intersubband cavity polaritons (no population inversion). Microcavities in the strong coupling regime; Cavity polaritons Coupled cavity polaritons for switching and slow light applications Microcavity exciton-polaritons are half-light, half-matter quantum . light-matter coupling in a combined structure of quantum wells and cavity photon cavity [1]. Jun 13, 2014 . We fabricated a single-crystalline rubrene microcavity using a simple solution technique and observed cavity polaritons in the microcavity at ... ETH - Quantum Photonics Group - Cavity Polaritons Cavity polaritons. Semiconductor microcavities are composed of two Bragg mirrors embedding the cavity layer which contains quantum wells. The cavity is ... Exciton-polaritons - Wikipedia, the free encyclopedia We consider a semiconductor polymer chain coupled to a single electromagnetic mode in a cavity. The excitations of the chain have a mixed exciton-photon ... All-optical phase modulation in a cavity-polariton Mach-Zehnder . Jan 25, 2013 . For an optical lattice within a cavity the excitons are coupled to cavity ... cavity QED model can be efficiently formulated in terms of polaritons. Cavity Polaritons in Organic Microcavities - Oxford Scholarship Elsevier Store: Cavity Polaritons, 1st Edition from Alexey Kavokin, Guillaume Malpuech. ISBN-9780080481371, Ebook. Cavity Polaritons, 1st Edition Alexey Kavokin, Guillaume Malpuech . Optomechanics with Cavity Polaritons: Dissipative Coupling and . The bulk ZnO-based hybrid microcavities are composed of 29 pairs of Al<sub>0.5</sub>Ga<sub>0.5</sub>N/GaN distributed Bragg reflector (DBR) at the bottom of the  $\lambda$ -thick cavity ... Volume 32 of the series addresses one of the most rapidly developing research fields in physics: microcavities. Microcavities form a base for fabrication of ... 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All-optical phase modulation in a cavity-polariton Mach-Zehnder interferometer. Sturm C(1), Tanese D(2), Nguyen HS(3), Flayac H(4), Galopin E(3), Lemaître ... QFC5 - Bragg Cavity Polaritons in Disordered Planar Lattices - MSU . The theory of non-retarded and retarded ferromagnetic cavity polaritons is developed. These are the excitation modes of a cavity formed between the parallel ... Cavity Polaritons - Alexey Kavokin, Guillaume Malpuech - Google . In strong coupling regime the luminescence spectrum of the cavity-quantum dot gives two polaritons branch that comes from the non-Markovian interaction . Cavity polaritons in ZnO-based hybrid microcavities by R. Shimada ... One of our main areas of research is the study of (strongly) interacting semiconductor cavity polaritons. The general framework of these experiments is the field of ... 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