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## Excitonic And Photonic Processes In Materials Springer Series In Materials Science

**control of two-dimensional excitonic light emission via ...** - an essential yet undeveloped ingredient for many photonic applications is the manipulation of its light emission. here we demonstrate the control of excitonic light emission from monolayer tungsten diselenide (wse 2) in an integrated photonic structure, achieved by transferring one monolayer onto a photonic crystal (phc) with a cavity. **control of two-dimensional excitonic light emission via ...** - undeveloped ingredient for many photonic applications is the manipulation of its light emission. here we demonstrate the control of excitonic light emission from monolayer tungsten diselenide (wse 2) in an integrated photonic structure, achieved by transferring one monolayer onto a photonic crystal (phc) with a cavity. **zno-based polariton laser operating at room temperature ...** - zno-based polariton laser operating at room temperature: from excitonic to photonic condensate feng li1,2, laurent orosz3, olfa kamoun4, sophie bouchoule5, christelle brimont4 pierre disseix3, thierry guillet4, xavier lafosse5, mathieu leroux1, joel leymarie3, meletis mexis4, martine mihailovic3, françois réveret3, dmitry solnyshkov3, jesus zuniga-perez1, guillaume malpuech3 **exciton-lattice polaritons in multiple-quantum-well-based ...** - mation of coherently coupled photonic-crystal excitonic-lattice polaritons manifests in our experiments through enhanced reflectivity and reconstruction of the photonic bandgap in the vicinity of the excitons. experimental evidence of hybrid light hole-heavy hole excitonic-lattice polaritons is also presented. **multimode photon-exciton coupling in an organic-dye ...** - multimode photon-exciton coupling in an organic-dye-attached photonic quasicrystal kun zhang,1 yue xu,1 tian-yong chen,1 hao jing,1 wen-bo shi,1 bo xiong,1 ru-wen peng,1,2 and mu wang1,3 1national laboratory of solid state microstructures, school of physics, and collaborative innovation center of advanced microstructures, nanjing university, nanjing 210093, china 2e-mail: rwpeng@nju **excitonic optical tamm states: a step towards a full ...** - band of the excitonic layer. figure 1.a shows the simulated p-polarized reflectance ( $t_m$ ) at normal incidence of the dbr stack and two photonic structures supporting ots, a dbr/(excitonic layer) that supports an eots mode and a dbr/(silver layer) that supports a tamm plasmon mode (tp). **monolayer excitonic laser - uc berkeley** - integrated with photonic crystals6,7 and distributed bragg reflector microcavities8,9, coherent light emission from a tmdc monolayer has not been demonstrated. here, we report the realization of a two-dimensional excitonic laser by embedding monolayer wse 2 in a microdisk resonator. using whispering gallery mode with a high quality factor ... **monolayer excitonic laser - researchgate** - monolayer excitonic laser ... integrated with photonic crystals6,7 and distributed bragg reflector microcavities8,9, coherent light emission from a tmdc monolayer has not been demonstrated. here ... **quantum theory of exciton-photon coupling in photonic ...** - excitonic or photonic, but rather as mixed radiation-matter states, called mc polaritons.5-9 the physics of exciton-polaritons in bulk materials had been introduced in the 1950s 12refs. 10 and 11 and is now a textbook topic. ,13 the confinement of both excitons and photons with mc-embedded qws leads to polariton states that are more easily ... **exciton-photon interaction in a quantum dot embedded in a ...** - photonic crystal slab. here we have analysed a disc-like quantum dot where an exciton is formed. excitonic eigen functions in addition to their eigen energies are found through direct matrix diagonalization, while wavefunctions corresponding to unbound electron and hole are chosen as the basis set for this procedure. **permanent rabi oscillations in coupled exciton-photon ...** - of exciton levels, and an incoherent excitonic reservoir, pumped by cw-field with the rate  $p$ . this non-resonant pumping can be realized both optically or by electronic current injection31,32. we assume that the wave function of driven-dissipative exciton-polariton condensate consists of photonic and excitonic components,  $\phi_{\pm}$  and  $\chi_{\pm}$ . we ... **gap maps, diffraction losses, and exciton-polaritons in ...** - gap maps, diffraction losses, and exciton-polaritons in photonic crystal slabs lucio claudio andreani\*, dario gerace, mario agio infm and dipartimento di fisica "a. volta," universita` di pavia, via bassi 6, 27100 pavia, italy **towards r-space bose-einstein condensation of photonic ...** - photonic crystal exciton polaritons have spatially uniform excitonic constituent set by  $\omega$  at qws, but exhibit periodic bloch oscillations in the plane of qws due to their photonic component. the envelope functions of photonic crystal exciton polaritons can be tailored via effective potential of a photonic crystal **excitonic resonant emission absorption of surface plasmons ...** - excitonic resonant emission-absorption of surface plasmons in transition metal dichalcogenides for chip-level electronic-photonic integrated circuits ... photonic circuits, which would not only increase the speed of **excitonic and photonic processes in materials springer ...** - excitonic and photonic processes in materials springer series in materials science are becoming more and more widespread as the most viable form of literary media today. it is becoming obvious that developers of new ebook technology and their distributors are making a concerted effort

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