Turkish Journal of Physics

Turkish Journal

Semiconductor and Dielectric Microcavity Spectroscopy

of

Physics

Ali SERPENGÜZEL
Department of Physics, Bilkent University,
Bilkent, 06533 Ankara-TURKEY



Abstract: Semiconductor and dielectric microcavities are used for the localization of photons as well as the enhancement of photon density of states. The enhancement of photoluminescence, electroluminescence, and lasing by the use of microcavities leads to novel active and passive optoelectronic and photonic devices such as channel droppping filters, semiconductor lasers, and resonant cavity enhanced devices. Experimental results showing photoluminescence enhancement in active planar, lasing in active ellipsoidal microcavities as well as light scattering in passive and spherical microcavities are presented.



Turk. J. Phys., 23, (1999), 701-708.

Full text: pdf

Other articles published in the same issue: <u>Turk. J. Phys.,vol.23,iss.4</u>.

phys@tubitak.gov.tr

Scientific Journals Home
Page