

PEER-REVIEWED PUBLICATIONS

1. Photon-Assisted Intersubband Transitions in a Quantum Wire.
Monica Gudwani, Vinod Prasad, Pradeep Kumar Jha and Man Mohan, NANO © World Scientific, Vol.1, No. 3 (2006) **213-218**.
2. Intersubband Transitions in Coupled Quantum Wells under an Intense Laser Field.
Monica Gudwani, Vinod Prasad, Pradeep Kumar Jha and Man Mohan, International Journal of Nanoscience, Vol. 7, Nos. 4 & 5 (2008) **215-221**.
3. Laser-induced adiabatic population transfer in asymmetric quantum wells.
Monica Gambhir, Siddhartha Lahon, Pradeep Kumar Jha and Man Mohan. NANO © World Scientific **4** (2009) 289.
4. Multiphoton excitation of a disc-shaped quantum dot in presence of laser (THz) and magnetic field for bioimaging.
Siddhartha Lahon, **Monica Gambhir**, Pradeep Kumar Jha and Man Mohan. Physica status solidi (b) 247 (2010) 962.
5. Linear and nonlinear optical absorption coefficients and refractive index changes associated with intersubband transitions in a quantum disk with flat cylindrical geometry.
Monica Gambhir, Manoj Kumar, P.K. Jha, Man Mohan, Journal of Luminescence 143 (2013) 361-367.
6. Dependence of Electromagnetically Induced Transparency on Pressure and Temperature in a Quantum Dot with Flat Cylindrical Geometry.
Monica Gambhir, Sukirti Gumber, P.K. Jha, Man Mohan, Superlattices and Microstructures 71 (2014) 147-161
7. Thermal and magnetic properties of a cylindrical quantum dot with asymmetric confinement.
Sukirti Gumber, Manoj Kumar, **Monica Gambhir**, Man Mohan and Pradip Kumar Jha, Canadian Journal of Physics, 2015, Vol. 93, No. 11 : pp. 1264-1268
8. Optical response of two-dimensional quantum ring in presence of Rashba spin-orbit coupling.
Sukirti Gumber, Manoj Kumar, **Monica Gambhir**, Pradip Kumar Jha and Man Mohan Journal of Applied Physics 119 (2016) 073101
9. Effect of hydrostatic pressure and magnetic field on electromagnetically induced transparency based nonlinear frequency conversion in the quantum ring.
Sukirti Gumber, **Monica Gambhir**, Pradip Kumar Jha, Man Mohan Superlattices and Microstructures 98 (2016) 423-432

10. Study of non-linear optical properties of center and edge doped multiple quantum wells.

M. Gambhir and V. Prasad

Revista Mexicana de Fisica 64 (2018) 439–446

11. Non-perturbative multiphoton excitation studies in an excitonic coupled quantum well system using high intensity THz laser fields.

Monica Gambhir and Vinod Prasad, Chin. Phys. B, 087803 (2019) 28

12. Dependence of nonlinear optical properties on electrostatic interaction in an excitonic parabolic quantum dot in a static magnetic field,

Monica Gambhir & Vinod Prasad , Journal of Modern Optics, 68:10 (2021), 542-554.

13. Pressure and temperature dependent EIT studies in a parabolic quantum dot coupled with excitonic effects in a static magnetic field (communicated)

CONFERENCE PROCEEDINGS:

14. Influence of hydrostatic pressure and temperature on subluminal and superluminal pulse propagation in a flat quantum disk,

Monica Gambhir, Sukirti Gumber, P. K. Jha and Man Mohan, M-6, CDAMOP 2015, Pg No. XXXII.

15. Linear and nonlinear optical absorption coefficients and refractive index changes in a multiple quantum well with delta doping,

Monica Gambhir, Ashish Tyagi, Vinod Prasad, Pg-67-74, National Conference On Recent Advances in Materials & Field Theory, Department of Applied Science, Bhagwan Parshuram Institute of Technology, Rohini, Delhi. (December 2015). ISBN : 978-93-254-054-9.

CHAPTER IN A BOOK

16. **Monica Gudwani**, Siddharha Lahon, Pradeep Kumar Jha and Man Mohan.

Optical Control of Population Transfer in a Double Quantum well using Delayed Laser Pulses

Laser and Bose-Einstein Condensation Physics, Editor(s): Man Mohan, Anil Kumar, Aranya B. Bhattacharjee, Anil Kumar Razdan, ISBN: 978-81-8487-064-0, 8184870647, Publication Year: 2010