

List of Publications

- (1) Asharf S.S.Z., Ambavale S.K., Tripathi P. and Sharma A.C: **Proc. Sol. Stat. Phys. Symp 52C, 825 (2007)**; Dynamically screened electron-acoustic phonon scattering in disordered semiconductors quantum wells. (Not included in thesis)
- (2) S.K. Ambavale, P. Dhuvad and A.C. Sharma: **Proc. Sol. Stat. Phys. Symp 53, 969 (2008)**; Ab-initio Calculation of Transmission Coefficient of Carbon Silicon Atomic Chain.
- (3) S.K. Ambavale and A.C. Sharma, **J. Comp. & Theo. Nanoscience Vol.6, 1549–1555, (2009)**; Ab-initio calculation on synthesis and transmission co-efficient for atomic chains consisting of C and Si atoms.
- (4) S.K. Ambavale and A.C. Sharma: **Proc. Sol. Stat. Phys. Symp 54, 831 (2009)**; Ab-initio Calculation on Ballistic transport of zigzag and armchair geometries of S-6C-4H-S structures.
- (5) S.K. Ambavale and A.C. Sharma, **PhysicaE 42, 2026–2032 (2010)**; First principle conductance calculation of Zigzag, Armchair and Mixed chains of SC_6H_4S molecule.
- (6) S.K. Ambavale and A.C. Sharma, **AIP conf. proc. Series (2010)**: Comparative Study on Effects of Armchair and Zigzag Graphene Electrodes on Ballistic Transport through C Atomic Chain.
- (7) S.K. Ambavale and A.C. Sharma, (2010) (*Communicated to Physica Status Solidi (A)*): Ab-initio Investigations on Ballistic transport through Carbon atomic chains attached to Armchair and Zigzag Edged Graphene Electrodes.