List of Publications

1. A comparative study of magnetic and optical properties of Mn, Gd, and Nd doped ZnO nanowire.
   Arup Chakraborty, Chol-Sam Jong, Nirmal Ganguli, Indra Dasgupta

2. Type II band alignment in InAs zincblende/wurtzite hetero-structured nanowires.
   Jaya Kumar Panda, Arup Chakraborty, Anushree Roy, Daniele Ercolani, Lucia Sorba
   Nanotechnology 27, 415201 (2016)


4. Strain induced band alignment in wurtzite-zincblende InAs heterostructured nanowires.
   Jaya Kumar Panda, Anushree Roy, Arup Chakraborty, Indra Dasgupta, Elena Hasanu, Daniele Ercolani and Lucia Sorba, and, Mauro Gemmi.

5. Electronic structure of CdSe-ZnSe coupled dot.#
   Arup Chakraborty, Indra Dasgupta
   DAE-BRNS MMMD symposium proceeding, no. CP-06, page-87 (2014)

6. Zinc Blende 0D Quantum Dots to Wurtzite 1D Quantum Wires: The Oriented Attachment and Phase Change in ZnSe Nanostructures.
   Suresh Sarkar*, Shinjita Acharya*, Arup Chakraborty*, and Narayan Pradhan
   (NOTE: * are equally contributed.)

7. How Crucial are Finite Temperature and Solvent Effects on Structure and Absorption Spectra of Si10 ?#
   N. Arul Murugan, Indra Dasgupta, Arup Chakraborty, Nirmal Ganguli, Jacob Kongsted, Hans Agren
Preprints

   **Arup Chakraborty**, Bidisha Das, Indra Dasgupta, Torsten Hahn, Simon Liebing, and Jens Kortus

2. *Study of band gap, band offsets and optical properties of heterostructure made of two small cage like II-VI semiconductor nanoclusters.*
   **Arup Chakraborty**, Indra Dasgupta

3. *Study of the effect of strain in determining the band offsets for polytype heterostructures of InAs nanowires.*
   **Arup Chakraborty**, Indra Dasgupta

# not included in the present thesis.