Publications

1. “Defect studies in small CdTe clusters”.
   Somesh Kr Bhattacharya and Anjali Kshirsagar

2. “Quantum Confinement in CdTe Quantum Dots: Investigation through Cyclic Voltammetry Supported by Density Functional Theory (DFT) ”.
   Santosh K. Haram, Anjali Kshirsagar, Yogini D. Gujarathi, Pravin P. Ingole, Omkar A. Nene, Ganesh B. Markad and Sachin P. Nanavati

3. “Doped Cage-like Structure of Cd$_9$S$_9$”.
   Prajakta Deodhar and Anjali Kshirsagar

4. “Transferable orthogonal tight-binding parameters for ZnS and CdS”.
   Somesh Kr Bhattacharya, Prajakta A. Deodhar, Ranjani Viswanatha and Anjali Kshirsagar

5. “ECR plasma assisted deposition of zinc nanowires”.
   V.S. Purohit, S. Dey, Somesh Kr. Bhattacharya, Anjali Kshirsagar, C.V. Dhar-madhikari and S.V. Bhoraskar

6. “Electronic structure of GaN codoped with Mn and Cr”.
   Nandan Tandon, G.P. Das, and Anjali Kshirsagar

7. “Passivation of CdTe clusters : A first principle study”.
   Somesh K. Bhattacharya and Anjali Kshirsagar

8. “How cationic gold clusters respond to a single sulfur atom”.
   Hagos W.Ghebriel and Anjali Kshirsagar

   Anjali Kshirsagar and Neelesh Kumbhojkar
10. “Adsorption of molecular hydrogen and hydrogen sulphide on Au clusters”.
    Hagos W. Ghebriel and **Anjali Kshirsagar**

11. “*Ab initio* calculations of the structural and electronic properties of CdTe clusters”.
    Somesh K. Bhattacharya and **Anjali Kshirsagar**

12. “Electronic structure of diluted magnetic semiconductor $\text{Ga}_{1-x}\text{Mn}_x\text{N}$ and
    $\text{Ga}_{1-x}\text{Cr}_x\text{N}$”.
    Nandan Tandon, G.P. Das, and **Anjali Kshirsagar**

13. “Momentum-space properties from coordinate-space electron density”.
    Manoj K. Harbola, Rajendra R. Zope, **Anjali Kshirsagar** and Rajeev K. Pathak

    Neelesh Kumbhojkar and **Anjali Kshirsagar**

15. “Full-potential LAPW calculation of electron momentum distribution of
    ferromagnetic Ni”.
    Tunna Baruah, Rajendra R. Zope and **Anjali Kshirsagar**

16. “Photophysical properties of ZnS nanocrystal”.
    Neelesh Kumbhojkar, V.V. Nikesh, **Anjali Kshirsagar** and Shailaja Mahamuni

17. “Full-potential LAPW calculations of electron momentum density and
    related properties of Li”.
    Tunna Baruah, Rajendra R. Zope and **Anjali Kshirsagar**

18. “Density functional approach to one positron and neutral atom bound state”.
    Tunna Baruah, Rajeev K. Pathak and **Anjali Kshirsagar**

    regime”.
    Shailaja Mahamuni, B.S. Bendre, Tunna Baruah, **Anjali Kshirsagar**, S.S. Joshi,
    A.G. Bedekar, S.F. Patil, P. Singh, K. Maiti and D.D. Sarma
20. “Leading corrections to the Compton profiles beyond the impulse approximation: second-order correction”.
   Rajendra R. Zope, **Anjali Kshirsagar** and Rajeev K. Pathak

21. “Positron binding: A positron density viewpoint”.
   Tunna Baruah, Rajendra R. Zope, **Anjali Kshirsagar** and Rajeev K. Pathak

   Rajeev K. Pathak, **Anjali Kshirsagar**, Ruth Hoffmeyer and Ajit J. Thakkar

23. “Thiophenol-capped ZnS quantum dots”.

24. “Present status of the Compton profile calculation in transition metals”.
   V. Sundararajan, **Anjali Kshirsagar** and D.G. Kanhere

25. “Two-component density functional theory of positron binding to negative ions”.
   D.G. Kanhere, **Anjali Kshirsagar** and Vasudha Bhamre

26. “Fourier transform of momentum density in Pd and PdH”.
   **Anjali Kshirsagar**, D.G. Kanhere and R.M. Singru
   in *Positron Annihilation* ed. L. Dorikens-Vanpraet, M. Dorikens and D. Segers

27. “Compton profile of Palladium”.
   B.K. Sharma, Anil Gupta, Hanuman Singh, S. Perkkiö, **A. Kshirsagar** and D.G. Kanhere

28. “Two photon momentum density and angular correlation of positron annihilation radiation in Pd and PdH”.
   **Anjali Kshirsagar**, D.G. Kanhere and R.M. Singru
29. “Calculation of 1D- and 2D-angular correlation curves in Pd and PdH”.
   Anjali Harmalkar, D.G. Kanhere and R.M. Singru
   in Positron Annihilation ed. P.C. Jain, R.M. Singru and K.P. Gopinathan,

30. “Electron momentum distribution in Pd and PdH”.
   Anjali Harmalkar, D.G. Kanhere and R.M. Singru

31. “Momentum space properties of atoms”.
   Anjali Harmalkar, Alfredo M. Simas, Vedene H. Smith, Jr. and
   William M. Westgate

32. “Compton profiles for neon and argon from Xα wavefunctions”.
   Anjali Harmalkar, P.V. Panat and D.G. Kanhere

Apart from these, I have given several invited talks and our group has presented pa-
pers, based on the research work being carried out in my group, in various conferences,
workshops and symposia, at both national and international levels.