

S.CHANDRA
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CAREER OBJECTIVE

To associate with reputed universities/institutions in India and abroad for teaching and research assignments in Physics.

ACADEMIC PROFILE

- Ph.D. in 2012 from Dr. B.R. Ambedkar University, Agra.
- M. Phil in 2005 from Dr. B.R. Ambedkar University, Agra. Title of Dissertation: **Mobile Communication Systems.**

DISTINCTIONS/HONOURS

- **UGC JRF Fellow from 2009 to 2011** in Dr. Bhimrao Ambedkar University, Agra-4.
- **UGC Post-doc Fellow from 2013- 2018** in Panjab University, Chandigarh-14.

RESEARCH ACTIVITIES

My research activities are in experimental & theoretical condensed matter physics focusing in low temperature behaviour. I am interested in transport, magnetic and thermodynamical properties in correlated electron systems. Synthesis and characterization of doped materials with graphene. Density functional theory and computer simulations.

LIST OF PUBLICATIONS

1. **S. Chandra**, Kulwinder Kaur, Transport properties of nitrogen doped graphene and CNT Superlattices calculations by First principles method, **Acta Ciencia Indica** **44**, 8 (2018).

2. **S. Chandra**, Kulwinder Kaur, Electronic and optical properties under pressure on half Heusler NiXSn (X=Zr, Hf) compounds calculation by First principles method, **Acta Ciencia Indica**, **43**, 239 (2017).
3. **S. Chandra**, Study of electronic transport properties of a monolayer graphene with a dilute coating of Tungsten adatoms on the surface, **Acta Ciencia Indica**, **43**, 227 (2017).
4. **S. Chandra**, Sarita Maan, Thermal Conductivity of Group VA Elements Puckered Monolayer Structures with a Single Parameter, **Acta Ciencia Indica**, **43**, 207 (2017).
5. **S. Chandra**, Transport properties of monolayer and bilayer graphene from First principles calculation and Boltzmann transport theory, **Acta Ciencia Indica**, **43**, 183 (2017).
6. **S. Chandra**, Sarita Maan, Study of Thermal and Optical Properties of imperfect Graphene By First Principles Method, **Acta Ciencia Indica**, **43**, 165 (2017).
7. **S. Chandra**, Kulwinder Kaur, Study of electronic properties of transition metal disulfide MS (M=Ti, Zr and Hf) nanosheets by First principles method with sulfur K and L_{2,3} edges, **Acta Ciencia Indica**, **43**, 151 (2017).
8. **S. Chandra**, Sarita Maan, Thermal Expansion of Pure and Doped Graphene, **Acta Ciencia Indica**, **43**, 129 (2017).
9. **S. Chandra**, Sarita Maan, Study of phase transition and elastic properties of XBi (X=Ce, Pr) Compounds by First principles Method., **Acta Ciencia Indica** , **43**, 117 (2017).
10. **S. Chandra**, Pooja Rani, Lattice Thermal Conductivity of two Dimensional group IV materials calculations By first principles Method, **Acta Ciencia Indica**, **43**, 95 (2017).
11. **S. Chandra**, Pooja Rani, Electronic Properties of Graphene, **Acta Ciencia Indica**, **43**, 79 (2017).
12. **S. Chandra**, Pooja Rani, Synthesis and Characterizations of 2D materials (Boron, Silicon, Germanium, Tin, Phosphorous, Bismuth) used By first principles Method, **Acta Ciencia Indica**, **43**, 49 (2017).
13. **S. Chandra**, Pooja Rani, Dielectric Properties of Diamond and Graphite using different Approaches, **Acta Ciencia Indica**, **43**, 31 (2017).
14. **S. Chandra**, Pooja Rani, Transport Properties in graphene doped with BN chains, **Acta Ciencia Indica**, **43**, 19 (2017).
15. **S. Chandra**, Pooja Rani, Theoretical characteristics of HfXSb (X=Co, Rh, Ru) half Heusler Compounds calculation by First Principles method, **Acta Ciencia Indica**, **43**, 01 (2017).
16. **S. Chandra**, Pooja Rani, Transport Properties of Graphene-Silicene bilayer system., **Acta Ciencia Indica**, **42**, 185 (2016).

17. **S. Chandra**, Pooja Rani, The influence of point defects on the Thermal Conductivity of Graphene, **Acta Ciencia Indica**, **42**, 171 (2016).
18. **S. Chandra**, Pooja Rani, Synthesis and Applications of graphene, **Acta Ciencia Indica**, **42**, 139 (2016).
19. **S. Chandra**, Pooja Rani, Sarita Maan, Ranjan Kumar, S-W Potential Parameters For InN By AB-Initio Methods, **Acta Ciencia Indica**, **42**, 55 (2016).
20. **S. Chandra**, Sarita Maan, Pooja Rani, V. K. Jindal, Thermal Expansion study of Graphene with first principles, **Acta Ciencia Indica**, **42**, 17 (2016).
21. **S. Chandra**, Pooja Rani, Simulation of hydrogenated Graphene Field Effect Transistors, **Acta Ciencia Indica**, **41**, 207 (2015).
22. **S. Chandra**, Thermionic Device with Graphene Electrodes, **Acta Ciencia Indica**, **41**, 181 (2015).
23. V. K. Jindal, Sarita Mann, Pooja Rani, **S. Chandra**, Phonon transport in Boron and Nitrogen doped Graphene, **AVS 62nd International Symposium & Exhibition, October 18, USA** (2015).
24. **S. Chandra**, Synthesis and Characterization of semi coke based carbon nano composites with carbon and copper, **Acta Ciencia Indica**, **41**, 09 (2015).
25. **S. Chandra**, Phonon transport in graphene with Green-Kubo method, **Acta Ciencia Indica**, **40**, 173 (2014).
26. **S. Chandra**, Thermal properties of graphene and applications, **Acta Ciencia Indica**, **40**, 145 (2014).
27. **S. Chandra**, Electronic properties of Boron and Nitrogen doped graphene, **Acta Ciencia Indica**, **40**, 49 (2014).
28. **S. Chandra**, S. C. Upadhyay, Rakesh Kumar, Comparison of phonon dynamics of alkali metal MC_{60} compound in different faces, **Acta Ciencia Indica** **37**, 3 (2011).
29. **S. Chandra**, Pallavi, Rakesh kumar, S. C. Upadhyay, Comparative study of alkali metal-doped C_{60} solids, **Acta Ciencia Indica**, **37**, 2 (2011).
30. **National Seminar on Recent trends in Advancement of Mathematical and Physical Sciences**, D.N. College Meerut, INDIA (2010).
31. **International Workshop on Nano-materials**, Dr. Bhimrao Ambedkar University, Agra, INDIA (2009).
32. **S. Chandra**, S. C. Upadhyay, Effect of alkali metal (M) on the structural MnC_{60} solids, **National Seminar on Recent Advances in Physics**, DAV College Kanpur, INDIA (2009).