

Academic Performance

1 Name of the Teacher: Dr. Daya Shanker

2 Departments: Physics

3 Designations : Associate Professor

4 Qualifications acquired or Achievements: -Ph.D. (Physics)

5 Publications in National, International Journals and seminars

- First Authorship- 38 enclosure (01)
- Communicated Accepted Papers- 00
- Papers presented in Conferences- 42 enclosure (03)
- Books -03 enclosure (04)

6 Details of Research Students

- a. Number of Registered Students- 02
- b. Number of students awarded PhD degree- 09 enclosure (02)

7. Any other relevant information about Academic Achievements-Assistant OSD of UG Exam 2016, 2017 and 2018.

Enclosure (01)

Publications in National, International Journals

1. Study of wave on surface of conducting medium, Jn of Nepal Phy Soc vol 23 July 2007
2. High pass filter of wave on polar semiconductors Chh. Jn Scitech vol 3 and 4, pg. 13-20 2007
3. Chemical Synthesis and characterization of CdTe nano particles Jn current sciences vol 12(2), pg. 95-98 2008
4. Synthesis of, structural and optical characteristics of CdS nanoparticles, Proceeding of 2nd National conferences on nanomaterials and nanotechnology Lucknow, 2009
5. Effect of Annealing on the Structural and electrical properties of CdTe/ZnTe Heterojunction thin film Chalcogenide letter vol. 6 no. 2 pg. 71-76, Feb 2009
6. Synthesis, Characterization and electrical properties of ZnTe, Jn of Ovonic Research vol. 5, no. 2, pg. 35-41, April 2009
7. Structural, morphological and electrical investigation of Cd_{1-x}Zn_xTe Heterojunction thin film, Chalcogenide letter vol. 6 no. 7 pg. 315-21 July 2009
8. Structural and electrical study of Cd_{1-x}Zn_xTe thin film by vacuum evaporation technique, 55th Solid State Phy. Symop. 2010
9. Thermal Investigation of vacuum evaporated Cd_{1-x}Zn_xTe Heterojunction Thin film, Jn. Of International Academy of Physical Sciences vol. 14 no. 3, pg. 369-377, 2010
10. Structural and optical Investigation of Cd_{1-x}Zn_xTe of thin film, Jn of Non crystalline solid 356 pg. 1563-8, 2010
11. Effect of Annealing on the Structural and electrical properties of chemical deposited CdSe nanoparticle, Proceeding of 3rd national conference on nano materials and Technology vol. 1 issue 1, Dec 2010
12. Reflection, Absorption and Transmission properties of surface of nano technology, Proceeding of 16th national seminars Lucknow of sciences vol. 8, no. 1, 2011
13. Surface Polaritons excitations on cylindrical nanomaterials in different medium Journal of Sciences Lucknow vol. 8 no. 1, 2011
14. Study of surface wave on spherical condensed nano particles Journal of Sciences Lucknow vol. 8 no. 2, 2011
15. Excitation of SPW at the thin film of nano substances, IAPS, 48832, 09749373 pg. 139 vol. 19

2015

16. Excitation of Polariton on the surface of TlCl in different medium ,IJMDR,40827,23940344 pg.18 vol.02 (2015)
17. Surface properties of semiconductor tube in dielectric medium, IJMDS 40880,2349908 pg.1vol.03 (2015)
18. Surface Plasmon excitation on the surface of RbF nanotube of different radius,IJMDS,64061,22297111,pg.59 vol.07(2015)
19. Attenuation properties of the thin surface of CsCl of different tubes in dielectric medium,ESSENCE,45586,09756272pg.28,vol.12(2015)
20. Theoretical study of Surface properties of Polar semiconductor in dielectric medium at nano scale,IJMDAR,40888,09768602,pg.1vol.05,Jan(2016)
21. Plasmon frequency resonance on surface of NaF in presence of DC magnetic field,IJMDR,40827,23940344,pg.38 vol.02,May(2016)
22. Filtering properties of EPSCN for high value of K and radius of Spherical EPSCN,IJMDS,40880,2349908,pg.25,vol.03,May(2016)
23. Energy band effect on the dispersion relation of surface Plasmon wave singlewalledcarbonnanotube,IJMDR,40827,23940344,pg.50vol.04/Jun2016
24. Study of Virgate constant on the surface of compound GaSb,multi-disciplinary international journal Remarking ,UPBIL/2016/67980,2455-0817,2394-0344,vol.2no.4.pg.64-68,July 2017
25. Filter properties of InAs and MgO polar semiconductor in dielectric medium of different radii, multi-disciplinary international journal Srinkhala ,UPBIL/2013/55327,234-290x,2349-980x,vol.4no.11,pg.35-38,July 2017
26. Study of Szigeti effective charge on polar semiconductor compounds, multi-disciplinary international journal Remarking ,UPBIL/2016/67980,2455-0817,2394-0344,vol.2no.5.pg.93-95,August 2017
27. Study of surface properties of spherical InSb in dielectric, multi-disciplinary international journal Srinkhala,UPBIL/2013/55327,234-290x,2349-980x,vol.4no.12,pg.5-7,August 2017
28. Magnetic field normal to the plane of electromagnetic wave on the surface of nanomaterial , multi-disciplinary international journal Remarking UPBIL/2016/67980,2455-0817,2394-0344,vol.4no.7.pg.19-22,Oct 2017
29. Study of refractive index of RbI,NaBr,LiF and AgBr by dispersion relation ,International Journal ,Innovation the research concept ,UPBIL/2016/68367,2456-5474,vol.2,no.9,pg.51-53,Oct 2017
30. Excitation of Carbon molecule in CNT due to external electromagnetic wave , multi-disciplinary international journal Remarking UPBIL/2016/67980,2455-0817,2394-0344,vol.3 issue -11(part 1).pg.12-16,Feb 2019
31. Magneto Plasmon Excitation on Chemical Compounds, JETIR,ISSN:23649-5162,vol.no.06,issue-04,pp. 184-186April-2019
32. Review article of environment pollutions of India and its effects in nature, JETIR,ISSN:23649-5162,vol.no.06,issue-04pp.99-101,April-2019
33. Plasmon Satellites of X ray excited auger electron spectra of polar semiconductors JETIR,ISSN:23649-5162,vol.no.06,issue-04pp.88-91,April-2019
34. **Plasma Excitations in a pair of Metallic Carbon Nano Tube In Presence of External Transverse D.C Magnetic Field"**, International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 4, page no.490-496, April-2019, Available :<http://www.jetir.org/papers/JETIR1904373.pdf>
35. [Surface properties of Magneto Plasmons on the Surface of Carbon Nanotubes \(CNT\)](#) [Journal of PHYSICS STM JOURNAL](#) ,ISSN 2278-2265.ISSN.2347-9973,vol 09,Issue 02,www.stmjournals.com
36. Study of Surface Plasmons of different materials at interface of dispersive medium at nano Scale, JETIR,vol 9,issue 6 June 2022
37. Behaviour of surface Plasmons on the surface of C.SiC,AgCl,NaCl,KCl,InSb,GaAs in non-dispersive medium, JETIR,vol 9, issue 6 June 2022
38. Theoretical study of Piezoelectric effect of lattice vibration in carbon nanomaterials, JETIR

Enclosure -02

RESEARCH GUIDANCE

The following title of thesis have been awarded to student in respective year

1. Surface Polariton ,Phonon and Surface Plasmon in cylindrical polar semiconductor,Syed Ali Kausar Rizvi,2008
2. Low pass and high filter for the incident EM wave in carbon nanotube,Manoj Kumar Chaudhary,2009
3. Magneto Plasmon surface wave in three mode coupling in cylindrical polar semiconductor, Syed Asad Ali,2009
4. Heterojunction semiconductor solar cell using thin film technology,Maheshwar Duby,2011
5. Surface study of carbon nanotube in non-dispersive medium in presence of DC magnetic field, Hari Narayan Yadav,2012
6. Filter properties of spherical conducted materials in presence of magnetic field, Abhishek Tiwari,2012
7. Study of Szigetti effective charge on the surface of condensed materials at nano scale parameter. Satya Prakash Singh ,2014
8. Magneto Plasmon ecitation on the surface of condensed materials Pradeep Kumar Sharma 2016
9. Study of carbon Nanotube in presence of D C Magnetic Field by Rakesh kumar Singh 2020

Enclosure -03

Paper presentation in seminars and conferences

1. MRSI,13-15 Feb 2006
2. National symposium on Plasmon Physics and material sciences,24-25 Jan2007
3. NWNNT-2007,24-26 March02007
4. National symposium on advances in chemical and material science,11-12May 2007
5. NCNMNT,8-10Dec2007
6. Symposium on Plasma Physics and material sciences,23-25Jan2008
7. Application of Science and nanotech ,12 Sept,2008
8. 16th National conference on liquid crystal, Lucknow,26-28Oct2009
9. 2nd National conference on nanomaterial and technology,21-23Dec2009
10. 16th National seminar Phy and Tech of ensor,11-13,2011
11. International seminars on advance in Bio and nanomaterials,17th Nov2013
12. ICNN-2013. Nov 18-20,2013
13. 5th National Conference on Nano Teach & material science Dec 21,23,2013
14. Advances in Bio and Nano materials University of Lucknow 17th Nov2013
15. Nano Sciences and Nanotechnology, BBAU,Lucknow 18-20 Nov2013
16. Nanotechnology and Material Sciences University of Lucknow 22-23 Dec2013
17. SPEED- 2014 AKTU,SMS,Lucknow 01-02 Nov2014
18. Civil Society Alliance----Munch Uttar Pradesh University of Lucknow 24-25 March2015
19. Science & Technology for Indigenises Development in India GurukulKangriVishwvidyalayaHaridware 28-30 Sept 2015

20. IMCE-2015, University of Lucknow 08-10Oct 2015
21. SPEED-2015 AKTU,SMSLucknow 21-22Nov2015
22. NCETAS-2016,23rd -24th Sept 2016
23. ICNSMH-2016 21-23rd October 2016,
24. ICOPVS 2016 5th -6th November 2016
25. SPEEDS-2016 19-20th November 2016
26. NATCON NAMTECH 2017 11th February 2017
27. NATCON NAMTECH 2017 12th-13th February 2017
28. ICEMA-2017,20th -22nd February 2017
29. NCFM-2017,31st March -1st April -2017
30. ICNN-2017,22-24Sept2017
31. SPPEDS-2017,09-10 Dec 2017
32. NSSCIC-2018,16-17Feb 2018
33. COTII-2018,23-24Feb 2018
34. IUAC Acquaintance Program ,19th September 201835.
- SPEED-2018,24&25 Nov 2018
36. National Seminar on Advanced Materials Science,7&8 Dec 2018
37. National seminar on micro materials and related live energy 1-3 Feb 2019
38. 3rd International conference on COTTI 22-23 Feb 2019
39. ISAFBM 2019,28 Feb 2019
39. SPEEDS 2019, Lucknow,7-8Feb 2020
40. NCAIR -2021 Lucknow July 29-31,2022
41. ICMARI-2022 10-11 Sept 2022, C R no icmari/2022/121
42. ICRM-2022,Oct 28-30,2022,certificate no 20221028044

Enclosure (04)

1. Advance Study of Carbon Nano tubes ISBN ;9788193709610 Dec 2018
2. Surface Excitation on Carbon Nano tubes ISBN ;9788193709641 Jan 2019
3. Application of Bloch Hydrodynamical model in Carbon Nanotubes, ISBN:978-81-89187-80-4, Feb 2019