Dr. Nitin Pratap Singh



S/o Late Shri Mangu Singh
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RESEARCH INTERESTS

- Thermal Properties of Low Dimensional High-Tc Supercunductors
- Structural and Electronic properties of High Tc Superconducting Materials
- Structural, Electronic and Optical Properties of Nanostructures
- Solar Energy devices

EDUCATION

Doctor of Philosophy, June 2009
Specialization: Condensed Matter Physics
Department of Physics, Gurukula Kangri University Hardwar, Uttranchal, India

PS: *PhD registration was at Gurukula Kangri University, Hardwar but all research work for the PhD thesis has been completed at Department of Physics, IIT Roorkee under the guidance of Prof. B. D. Indu.*

Title: Thermodynamics of Low Dimensional High T_c Superconductors
Supervisors: Dr. B D Indu (Prof. & Head Department of Physics I.I.T Roorkee)
Dr. L P Purohit (Department of Physics Gurukula Kangri University, Hardwar)

Master of Philosophy M.Phil. (Physics), 2001
Specialization: Instrumentation
Department of Physics, Indian Institute of Technology Roorkee, Uttranchal, India
Dissertation: Multi-input filters using Current Conveyors and Differential Amplifiers
Supervisors: Prof J Rai and Dr. Kirat Pal, I.I.T. Roorkee
Seminar Given: Multi-input and Multi-output filters
Main Courses:

- Semiconductor Microelectronic Technology
- Electronic Circuits & System
- Industrial Instrumentation
- Biomedical Instrumentation

Master of Science (Physics), 1998
M. J. P. Rohilkhand University Bareilly, Uttar Pradesh
Main Courses:

- Advanced Solid State Physics
- Advanced Quantum Mechanics
- Advanced Electronics
- Op.Amp.Microprocessor & Digital Electronics

Bachelor of Science, 1996
M. J. P. Rohilkhand University Bareilly, Uttar Pradesh
Main Subjects:

- Physics
- Mathematics

PROFESSIONAL EXPERIENCES

- Presently working as a Professor & Coordinator, Department of Physics at Jaipur National University, Jaipur. (Since Jan.2020).
- Worked as an Associate Professor & Coordinator, Department of Physics at Jaipur National University, Jaipur. (From Aug.2016 to Jan.2020).
- Worked as an Assistant Professor of Physics at Raj Kumar Goel Institute of Technology for Women, (RKGITW) Ghaziabad. (Sept.2010 to Aug.2016).
- Worked as a Lecturer and Sr.Lecturer of Physics at Maharishi Markandeshwar University (MMU), Mullana – Ambala (July 2008 to Aug.2010).
- Worked as a lecturer (on Contract) of Physics at the National Institute of Technology (NIT), Kurukshetra (Jan-07 to June-08).
- Worked as a lecturer of Physics (Part-time) at KLDAV degree college, Roorkee (2004-05 & 2005-06).

Courses Taught

- **M.Tech:** Bio-Medical Instrumentation, Nanoscale Magnetic Materials and Devices, Material Science, Nanoelectronics and Devices.
- **M.Sc:** Classical Mechanics, Quantum Mechanics, Solid State Physics, Thermodynamics and Statistical Physics, Electrodynamics & Plasma Physics, Condensed Matter Physics.
- **B.Tech:** Engineering Physics-I & II, Nanotechnology (VIII Sem.).
- **B.Sc.:** Solid state Physics, Physics for Medical Imaging & Technology, Physics for Forensic Science.

ADMINISTRATIVE EXPERIENCES

- Working as a Coordinator, Department of Physics at Jaipur National University, Jaipur. (Since Aug.2016).
- Working as a member of the School purchase committee and looking after the various processes of purchasing.
- Working as Faculty representative in Industry-Institute Coordination Cell from School of Life and Basic Sciences Since 2022.
- Working as NAAC Coordinator from the Department of Physics to compile all the data for NAAC accreditation.
- Get responsibility from the department in various rankings like NIRF ranking, India Today ranking, and UGC 12B accreditation.
- Coordinate different committees during various activities viz. TECHNORAZZ(Annual Event), Convocation and Orientations, etc.
- Worked as a different committees member during the organization of various National and International conferences/workshops at Jaipur National University, Jaipur
- Worked as Remote Centre Coordinator for IIT Bombay and IIT Kharagpur to conduct ISTE workshops at RKGITW Ghaziabad from 2010 to 2016.

AWARDS AND HONOURS

- Received an appreciation by Vidya Bharti Akhil Bhartiya Shiksha Santhan for working as a Judge in 22nd National Science Fair Organized during Nov.14-16, 2024
- Chaired a session during the 2nd Global Conference on “Emerging Trends in Research & Development” Organized by the International Journal of Innovative Research & Growth (IJIRG) during June 17-18, 2023.

- Awarded for Outstanding and Sustained Contribution to Physics on INTERNATIONAL WOMEN'S DAY 2022 by Women Innovation Entrepreneurship Foundation.
- Received recognition of the review contributed to the journal by **ELSEVIER** during Jan-Feb.2020.
- Received appreciation as an reviewer in4th International Conference on Innovative Advancement in Engineering & Technology (IAET-2020) organized by Jaipur National University, Jaipur on 21-22 Feb.2020.
- Awarded **"*Certificate of Excellence"*** for excellent performance in 10-days ISTE workshop on **"Solar Photovoltaics: Fundamentals, Technologies and Applications"** under the National Mission on Education through ICT (MHRD, Govt. of India) and Ministry of New and Renewable Energy organized by IIT- Bombay from December 12th, 2011 to December 22nd, 2011.
- Received a Complementary Solar Photovoltaic Lab kit from **National Centre for Photovoltaic Research and Education** (**NCPRE**), IIT Bombay.

CONFERENCES/ WORKSHOPS/SHORT TERM COURSES ATTENDED

1. One Week Faculty Development Program on "**Achieving Excellence with Mental Wellness**" organized by School of life and Basic Sciences, Jaipur National University in collaboration with Entrepreneurship and Career Hub (ECH), University of Rajasthan from 21 to 25 January 2025.
2. One week Faculty Development Program on **"Scilab"** organized by Jaipur National University with course material provided by Spoken Tutorial Project, IIT Bombay from Oct.03 to 10, 2024 and passed a **Scilab test** with **score 80%,** remotely conducted by the Spoken Tutorial project, IIT Bombay, under an honour invigilation system.
3. International Faculty Development Programme on **"Ethical Issues in Research Writing"** Organized by Regional College for Education Research and Technology, Jaipur and University of Technology, Jaipur in association with Scientific And Humanities Research Society, Jaipur, Rajasthan, India from Sept. 11 to 16, 2024.
4. One Week Faculty Development Program on "**Enhancing Teaching Learning Process**" organized by School of life and Basic Sciences, Jaipur National University in collaboration with Science Setu Cluster DBT, Ministry of Science & Technology, Govt. of India from 15 to 19 July 2024.
5. One Week Faculty Development Program on "**Innovative Teaching Methods in Higher Education System in India**" organized by Jaipur National University from 10 to 14 June 2024.
6. Two days National Conference on "**Innovations and Advances in Sciences (NCIAS 2024)"** organized by Maharaja Agrasen University Solan from May 09-10, 2024. (Paper Presented)
7. One-Week International Workshop on "**Technical Writing using LaTeX (Online)"** organized by VIT-AP University, Amaravati, from 30th March to 5th April 2024.
8. One Week Faculty Development Program on "**NEP-Outcomes & Challenges**" organized by Jaipur National University in collaboration with Dr Bhimrao Ambedkar University, Agra, Supported my MSME, DFO Rajasthan during 11 to 17 March 2024.
9. One Week online AICTE Recognized Faculty Development Programme on "**Soft Skills and Classroom Teaching**" organized by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh during 16 to 20 Oct. 2023.
10. Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission Organized by Intellectual Property Office, India on April 17, 2023.
11. World conference on **"Thermoelectrics and Materials (WCT-2023)"** organized by Jaipur National University, Jaipur in association with Materials Research Society of India , Rajasthan Chapter during March 14-18, 2023.
12. One Week online AICTE Recognized Faculty Development Programme on "**Materials Characterization Techniques**" organized by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh during 12 to 16 Dec. 2022.
13. National conference on **"Indian Education System in Pre & Post-British Era and NEP 2020: A paradigm shift in higher education"** organized by Jaipur National University & Rajasthan University Shikshak Sangh, Jaipur from 21-22 Nov. 2022

14. One Week online AICTE Recognized FDP on "**Smart Materials and Nanotechnology**" organized by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh during 17 to 21 Oct 2022.

15. One Week online AICTE Recognized Faculty Development Programme on "**Smart Materials Processing and Applications**" organized by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh during 25 to 29 July 2022.

16. 5th International Conference on "**Innovative Advancement in Engineering & Technology (IAET-2022)"** organized by Jaipur National University, Jaipur on 25-26 March 2022.(Paper Presented)

17. "Advanced Level Research Guidance Workshop" organized by Jaipur National University, Jaipur from 04 Feb-25 March 2022.

18. One Week online AICTE Recognized Faculty Development Programme on **"Open Tools for Research"** organized by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh from 24th to 28th January 2022.

19. 3rd National Conference on "**Advanced Materials and Applications (NCAMA-2021)**" organized by Department of Physics, National Institute of Technology, Raipur from 25th to 26th November 2021.(Paper Presented)

20. One Week AICTE Training And Learning (ATAL) Academy Online Elementary FDP on **"Novel Materials: Advances and Application"** at National Institute of Technology Raipur from 24/09/2021 to 28/09/2021.

21. One Week AICTE Recognized Faculty Development Programme on **" Nanosensors and Devices"** organized by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh from 02th to 06th August 2021.

22. One Week AICTE Recognized Faculty Development Programme on "**Research Integrity & Ethics"** Organized by Sri Sai College of Engineering & Technology, Badhani, Pathankot from 22nd to 26th June, 2021.

23. International Conference on "**Reaction Engineering (ICRE-2021)"** held at National Institute of Technology, Raipur during 07th to 08th May 2021. (Paper Presented)

24. National e-Workshop on Intellectual Property Rights (IPR) organized by School of Life Sciences, JNU, Jaipur in collaboration with Entrepreneurship and Career Hub (ECH), University of Rajasthan, Jaipur on 30 April 2021

25. 2nd National Conference on "**Advanced Materials and Applications (NCAMA-2020)**" organized by Department of Physics, National Institute of Technology, Raipur from 28th to 29th December 2020.(Paper Presented).

26. TEQIP-III Sponsored One Week Short Term Course on "**Advanced Energy Materials"** organized by Dr. B.R. Ambedkar NIT Jalandhar from 12th to 16th October 2020.

27. TEQIP-III Sponsored One Week Short Term Course on "**Current Trends in Condensed Matter Physics"** organized by Dr. B.R. Ambedkar NIT Jalandhar from 25th to 29th September 2020.

28. TEQIP-III Sponsored One Week Short Term Course on "**Advanced Functional Materials, Characterization & Applications"** jointly conducted by NIT Uttrankhand, MNIT Jaipur and SLIET Longowal from 29th Feb. to 04 March.2020 at MNIT Jaipur.

29. 3rd International Conference on Innovative Advancement in Engineering & Technology (IAET-2018) organized by Jaipur National University, Jaipur on 23-24 March 2018 in association with Myongji University South Korea (Paper Presented).

30. AICTE sponsored, One Week Short Term Course on**, "Relevance of Nanotechnology to the Rechargeable Battery Technology"** conducted by Department of Physics and Material Science, IITRoorkee, from 18 July to 22 July,2016.

31. AICTE sponsored, One Week Short Term Course on**, "Recent Advances in Nanobiophotonics [From Lab to Clinic]",** conducted by Department of Physics and Biotechnology, IIT Roorkee, from 13 July to17 July, 2015.

32. "Faculty Development Programme in Physics" supported by Uttar Pradesh Technical University, Lucknow, organized by ABES Engineering College from December 3rd to December 5th, 2013.

33. "Science Conclave 2012" (A Science Popularization Programme), *A Joint Initiative of MHRD & DST, Govt. of India, organized by IIIT-Allahabad* from December 8th to December 14th , 2012**.**

34. 10-days ISTE workshop on **"Solar Photovoltaics: Fundamentals, Technologies and Applications"** under the National Mission on Education through ICT (MHRD, Govt. of India) and Ministry of New and Renewable Energy organized by IIT- Bombay from December 12th, 2011 to December 22nd, 2011.

35. AICTE sponsored, short term course on, **"Smart Nanoceramics & NanoScience Research Tools"**, conducted by Department of Physics at IIT Roorkee, from 13 July to 17 July, 2011.

36. 54th DAE Solid State Physics Symposium (SSPS-2009) M. S. University of Vadodara, Vadodara, India. December14-18, (2009).

37. National Conference on Condensed Matter and materials Physics (CMMP 06), 19,-21 Jan. 2006, M. S. University Vadodara, INDIA.

38. International Symposium on Advanced Materials and Processing (ISAMAP 2K4), I.I.T, Kharagpur, India, 6-8 December 2004.

39. National Seminar on Materials and its Applications, Dr.R.M.L. Avadh University, Faizabad on February 27-28, 2003.

WORKSHOPS/PROGRAMMES ORGANIZED

- Organized a seminar on "**Nanotechnology: Daily Life Applications & Future Computing Era"** during October 23, 2024. Resource Person: Prof. Piyush Dua
- Worked as a Co-Convener in **"3rd Global Conference on Emerging Trends in Research & Development (ETRD-2024)"** during 15-16 June 2024.
- Worked as an organizing committee member in Science week celebration **"SciFi-2024"** during February 21-28, 2024.
- Organized a seminar on **"Design & Synthesis of Third Generation Solar Cell "**during January 4, 2024. Resource Person: Prof. G.D. Sharma LNMIIT Jaipur
- Worked as an organizing committee member in National Workshop on **"Intellectual Property Rights (IPR)"** organized by School of Life & Basic Sciences, Jaipur National University, Jaipur, in collaboration with Department of Microbiology, Punjab University, Chandigarh and Entrepreneurship and Career Hub (ECH), University of Rajasthan, Jaipur
- Conducted a Seminar on **"Design and Synthesis of Third Generation Solar Cells"** January 04, 2024.
- Worked as Co-Convener in **"2nd Global Conference on Emerging Trends in Research & Development (GCETRD-2023)"** on June 17-18, 2023.
- Organized a Seminar on **"Semiconductor Devices and their Applications"** January 07, 2023. Resource Person: Dr. Kanjalochan Jena, LNMIIT Jaipur
- Organized a seminar on "Research Opportunity and Experimental Facilities at MNIT Jaipur" on January 05, 2023: Resource Person: Dr. Rahul Singhal MNIT Jaipur
- Worked as a Coordinator in "**International Conference on Innovative Advancement in Engineering & Technology (IAET-2022)"** organized by Jaipur National University, Jaipur on 25-26 March 2022.
- Worked as a Coordinator in "**International Conference on Innovative Advancement in Engineering & Technology (IAET-2020)"** organized by Jaipur National University, Jaipur on 21-22 Feb. 2020 in association with National Academy of Sciences, India.
- Worked as a Coordinator in "**International Conference on Innovative Advancement in Engineering & Technology (IAET-2018)"** organized by Jaipur National University, Jaipur on 23-24 March 2018 in association with Myongji University South Korea.
- Worked as Remote Centre Coordinator for Four Week AICTE approved FDP on "**Use of ICT in Education for Online and Blended Learning"** under the National Mission on Education through ICT (MHRD, Govt. of India) organized by **IIT Bombay** during May 02, 2016 – July 10,2016 at RKGITW, Ghaziabad.

- Worked as Remote Centre Coordinator for Two Week ISTE STTP On **"Introduction to Design of Algorithms"** under the National Mission on Education through ICT (MHRD, Govt. of India) organized by IIT- Kharagpur during May 25 - 30, 2015 at RKGITW, Ghaziabad.
- Conducted a Two Week Short Term Training Programme on "**Pedagogy For Effective Use Of ICT in Engineering Education"** under the National Mission on Education through ICT (MHRD, Govt. of India) organized by IIT- Mumbai from 05 – 07 January and 19 - 21 January 2015 at RKGITW, Ghaziabad.
- Worked as Remote Centre Coordinator for Two Week ISTE workshop on **"Computer Networking"**, under the National Mission on Education through ICT (MHRD, Govt. of India) organized by IIT- Mumbai from June 30th, 2014 to July 5th, 2014 at RKGITW, Ghaziabad.
- Worked as Remote Centre Coordinator for Two Week ISTE workshop on **"Signals and Systems"**, under the National Mission on Education through ICT (MHRD, Govt. of India) organized by IIT-Kharagpur during January 2 - 12, 2014 at RKGITW, Ghaziabad.
- Worked as Remote Centre Coordinator for Two Week ISTE workshop on **"Analog Electronics"**, under the National Mission on Education through ICT (MHRD, Govt. of India) organized by IIT-Kharagpur during June 4 - 14, 2013 at RKGITW, Ghaziabad.
- Conducted a 2-day ISTE workshop, on **"Research Methods in Educational Technology"**, under the National Mission on Education through ICT (MHRD, Govt. of India) organized by IIT- Bombay on February 2nd, 2013 and February 9th, 2013 at Remote Centre RKGITW, Ghaziabad.
- Worked as a team member of organizing committee during **INSPIRE** Internship Science Camp sponsored by Department of Science & Technology (DST) Ministry of Science & Technology, Govt. of India from July 8th -12th ,2013 , January 20th -24th ,2014 and July 30th -August 3rd ,2014 at RKGITW Ghaziabad.

DISSERTATION SUPERVISED

- Mayank Naharwal **"Analysis of Thermal Conductivity Of CaB_6"** M.Sc. Physics May-2023.
- Kapil Kaushal**"Analysis of Thermal Conductivity of BSCCO Superconductors"** M.Sc. Physics May-2022.
- Naveen Kumar **"5G Communication Technology"** M.Sc. Physics May-2022.
- Pushpender Poonia "**Analysis of Thermal Conductivity Of High Temperature Superconductors"** M.Sc Physics June-2021.
- Mukesh Kumar **"Analysis of Thermal Conductivity of YbB44Si2 and GaAs"** M.Sc Physics June-2021.
- Radha Sharma **"Analysis of Thermal Conductivity of $YBa_2Cu_3O_7$ at High Temperature"** M.Sc Physics June-2021.
- Prakash Jangir **" Analysis of Thermal conductivity of Nb at low temperature"** M.Sc Physics May-2019.
- Kamlesh Kumar **"Analysis of specific heat of Superfluid Helium"** M.Sc Physics May-2019.
- Rita Yadav & Poonam Devi **"A theoretical modeling of Bose-Einstein condensation and degeneracy"** M.Sc Physics May-2019.
- Sapna Yadav and Mustapha Bukar Liberty, "**Thermodynamics of Low Dimensional Structures"** M.Sc Physics May 2018.
- Kaptan Singh, **" Ultrasonic Distance Measurement",** M.Sc Physics May 2018.
- Mir Aqib Rashid, **"Role of Scattering Processes in the Lattice Thermal Conductivity Of MgB_2"** M.Sc Physics May 2017.

MEMBERSHIP OF PROFESSIONAL BODIES

- ❖ Life Member, Indian Science Congress Association (Membership No.: L19505)

TECHNICAL SKILLS

• Language Known	FORTRAN
• Operating System	WINDOWS- 9X/NT, UNIX, MS-DOS
• Package	MS Office, ORIGIN, MATHEMATICA

EXTRA CURRICULAR ACTIVITIES

- N.C.C. Senior division "C" certificate.
- Vice president of Physics Association during the session 2000-2001 in the Department of Physics, I.I.T. Roorkee.
- Participated in U.P. state annual athletic meet 1994.

PUBLICATIONS

- **Nitin.P.Singh** "Quantitative Analysis of Helmholtz Free Energy Using Electron-Phonon Interactions in Low-Dimensional Superconductors for Quantum Technology" Journal of Science: Advanced Materials and Devices **(SCI)** Submitted.
- **Nitin P. Singh,** "Role of Scattering Processes in the Lattice Thermal Conductivity of MgB_2" Asia Pacific Conference on Condensed Matter Physics 2024 organized by IIT Patna. (Accepted)
- A. P. Singh and **Nitin P. Singh,** "Role of anharmonicity in the phonon density of states of high temperature superconductors" *Materials Today: Proceedings Vol. 79(1)(2023) 39-43.***(Scopus Indexed)**
- Preetam Singh, **Nitin P Singh** and Shiva Soni, "Coronal mass ejections in relation with radio burst related geomagnetic storms and sun spot" *International Journal of Innovative Research & Growth Vol.10 Issue 3(2021) 12-16.*
- **Nitin P. Singh,** Preetam Singh Gour and Sapan Mohan Saini, " Role of Anharmonicity in the Electronic Heat Capacity of Superconductors" *IOP Conference Series: Materials Science and Engineering Vol.1120 (2021)* 012033. **.(Scopus Indexed)**
- Preetam Singh Gour, **Nitin P. Singh**, Shiva Soni and Sapan Mohan Saini, " Observation of Coronal Mass Ejections in association with sun spot numbers and Solar flares" *IOP Conference Series: Materials Science and Engineering Vol.1120 (2021) 012020.* **.(Scopus Indexed)**
- Preetam Singh, Shikha Munjal, Pakaj Srivastava and **Nitin P Singh**, , "Indian Ber & Jamun seeds mediated Preparation of Zn2+ doped MgO Nanoparticles and study its Structural and Optical Properties" *International Journal of Innovative Research & Growth Vol.9 Issue 7(2020) 54-66.*
- **Nitin P. Singh** "Theory of Thermal Conductivity of Cuprate Superconductors",*Materials Today: Proceedings Vol. 32(2020)324-328.* **.(Scopus Indexed)**
- Prakash Chand, Sukesh Kumar, Vishal Singh, **Nitin P. Singh, "**Investigation of the Structural and Electrical Behavior of $LiFePO_4$ as Cathode Material for Energy Storage Application" *Materials Today: Proceedings Vol. 32(2020) 483-486.* **.(Scopus Indexed)**
- Mohd Sadiq, Anil Arya, Javid Ali, **Nitin P. Singh**, A. L. Sharma, "Electrical Conductivity and Dielectric Properties of Solid Polymer Nanocomposite Films: Effect of $BaTiO_3$ Nanofiller" *Materials Today: Proceedings Vol. 32(2020) 476-482.* **.(Scopus Indexed)**
- Shiva Soni, Preetam Singh Gour, Pankaj Srivastava, **Nitin P Singh, "**Comparative Study of Symmetric And Asymmetric Forbush Decreases With Disturbances In Solar Wind Parameters" *International Journal of Innovative Research & Growth Vol.9 Issue 2(2019) 06-12.*
- A.P. SINGH, SANJAY KUMAR AND **NITIN P. SINGH, "**The electron density of states for high temperature superconductors" *J. Mountain Res., Vol- 7(2012) 1 -14.*

- M. Attaullah Ansari, **Nitin P Singh** and B.D. Indu, "Role of Scattering Processes in Lattice Thermal Conductivity of Ge", *Indian Journal of Pure and Applied Physics Vol.45 (2007) 27-30*. **.(Scopus Indexed)**
- **Nitin P Singh,** Preetam Singh Gour and Sapan Mohan "Role of Scattering Processes in the Lattice Thermal Conductivity of MgB_2" International Conference on Reaction Engineering (ICRE-2021) held at NIT Raipur during 07-08th May 2021.
- **Nitin P Singh,** Preetam Singh Gour and Mir Aqib Rashid, "Role of Scattering Processes in the Lattice Thermal Conductivity Of Low Temperature Superconductors", International Conference on Innovative Advancement in Engineering & Technology (IAET-2018) 23-24 March,2018, Jaipur National University, Jaipur in association with Myongji University South Korea.
- **Nitin P Singh**, B.D. Indu and L.P. Purohit, "Analysis of Thermal Conductivity of YBaCuO in the Presence of Various Scattering Processes", Proceeding 54th DAE Solid State Physics Symposium (SSPS-2009) M. S. University of Vadodara, Vadodara, India. December14-18, (2009). **.(Scopus Indexed)**
- **Nitin P Singh**, B.D. Indu and L.P. Purohit, "Analysis of Thermal Conductivity of Nb at low temperature", Proceeding 51st DAE Solid State Physics Symposium Barkatullah University, Bhopal, India, December 26-30, 2006. **.(Scopus Indexed)**
- **Nitin P Singh**, M. Attaullah Ansari and B.D. Indu, "Theory of Thermal Conductivity of Cuprate Superconductors", National Conference on Condensed Matter and materials Physics (CMMP 06), 19-21 Jan. 2006, M. S. University Vadodara, INDIA.
- M. Attaullah Ansari, **Nitin P Singh** and B.D. Indu, "Role of Scattering Processes in Lattice Thermal Conductivity of Ge", National Conference on Condensed Matter and materials Physics (CMMP 06), 19-21 Jan. 2006, M. S. University Vadodara, INDIA.
- **Nitin P Singh**, B.D. Indu and L.P. Purohit, "Role of Various Scattering Processes in Thermal Conductivity of Superconductors", *Proceeding of* International Symposium on Advanced Materials and Processing (ISAMAP 2K4), I.I.T, Kharagpur, India, 6-8 December 2004.
- A.P.Singh, **N.P. Singh,** B.D. Indu and L.P. Purohit, "Enhancement in the Phonon Density of States due to Electron-Phonon Interactions in An-harmonic Crystals", in National Seminar on Materials and its Applications, Dr.R.M.L. Avadh University, Faizabad on February 27-28, 2003.

PERSONAL DETAILS

Father's Name	**:**	Late Sh. Mangu Singh
Date of Birth	**:**	30th June 1977
Sex	**:**	Male
Marital Status	**:**	Married
Nationality	**:**	Indian

REFRENCES

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I hereby declare that all the above given information are correct in best of my knowledge.

Date: 14/02/2025
Place: Jaipur

(NITIN PRATAP SINGH)