Curriculum Vitae

Dr. Vineet Sharma
Professor
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Academic Qualifications:

- **2005 -- Ph.D. (Experimental Condensed Matter Physics)** from Centre for Advanced Study in Physics, Panjab University Chandigarh, India,
- **1999 --- M.Sc. (Honours School)** from Centre for Advanced Study in Physics, Panjab University, Chandigarh, India.
- **1997 --- B.Sc.** (Phys., Chem., Maths) from H.P. University, Shimla, India.

Professional Experience:

- ***Teaching at JUIT Waknaghat since June 2005***
  - ✓ Teaching to Undergraduate Engineering students and Ph.D students

Research Supervision:

- Ph. D. Students supervised: 04, 01 ongoing
- B.Tech Student supervised: 01

Research project:

- Enhancing the thermal stability of Chalcogenide Phase-change materials for switching and memory applications; Rs. 20,06,950/-, vide File No. File No. EMR/2016/006094, dated 05 October, 2017, SERB(DST) (2017-2021) [Principal Investigator]

Research Experience:

- Experimental Condensed Matter Physics
- Non Crystalline Semiconductors- Transport properties,
- Chalcogenide Glasses
- Semiconducting nanofilms
- Nano ferrites

Reviewer International research Journals from:

- Institute of Physics
- Elsevier
- Wiley
- Springer
- IEEE

Academic Honors, Awards and Membership:

- IEEE Senior MemberMember(#93357987)
- International Forum of Chalcogeniders.
- Indian Society of Analytical Scientists.
- Materials Research Society of India.

Publications:

www.scopus.com/authid/detail.url?authorId=54379476800 ***(h-index-22)***
https://vidwan.inflibnet.ac.in/profile/174831

Publications in Journals

1. Improvement in thermal stability and crystallization mechanism of *Sm* doped $Ge_2Sb_2Te_5$ thin films for phase change memory applications
   Sanjay Kumar, Vineet Sharma
   Journal of Alloys and Compounds 893 (2022) 162316 (1-12)

2. Optical and mechanical properties of *Ag* doped thermally evaporated *SeTe* thin films for optoelectronic applications
   A. El-Denglawey, Vineet Sharma, Ekta Sharma, K.A. Aly, A. Dahshan, Pankaj Sharma
   Journal of Physics and Chemistry of Solids 159 (2021) pp. 110291 (1-10)

3. Structural transition on doping rare earth *Sm* to *Ge2Sb2Te5* phase change material
   Sanjay Kumar, Vineet Sharma
   Journal of Alloys and Compounds 877 (2021)pp. 160246(1-9)

4. Effect of local structure on the optical and dielectric behaviour of Sm doped Ge2Sb2Te5 phase change material
   Sanjay Kumar, Vineet Sharma
   Optical Materials 115 (2021)pp. 111057 (1-9)

5. Enhancing the surface morphology for improved phase change mechanism by Sm doping in Ge2Sb2Te5 thin films
   Sanjay Kumar, Vineet Sharma
   Applied Physics A 127(2021) pp. 213(1-7)

6. Rare-earth (Dy)-doped (GeS2)80(In2S3)20 thin film: influence of annealing temperature in argon environment on the linear and nonlinear optical parameters
   Pankaj Sharma, Vineet Sharma, Ekta Sharma, A. Dahshan, K. A. Aly, Pawan Kumar, Aslam Khan, Ashok Kumar
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7. Transformation in the structural and optical properties with the phase change from hematite (Fe_2O_3) to pure spinel structure in Mn-Zn nanoferrites
   Prashant Thakur, Vineet Sharma, Rohit Sharma, Joachim Wollschläger, Kevin Ruwisch, A. Dahshan, Shipra Thakur, Pankaj Sharma,
   Physica B: Condensed Matter, Volume :584, (2020) pp. 412107.

8. Improvement in stability of *GST PCM*s on *Sm* addition for memory devices
   Sanjay Kumar, Vineet Sharma
   Journal of Non-Crystalline Solids, 532 (2020) 119887(1-5).

9. Alloyed Ag2SexS1-x quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications
   Subhash Chand, A. Dahshan, Nagesh Thakur, Vineet Sharma, Pankaj Sharma
   Infrared Physics and Technology, 105 (2020) 103162 (1-10).

10. Chemical ordering and electronic properties of lone pair chalcogenide semiconductors
    Vineet Sharma, Sunanda Sharda, Neha Sharma, S.C. Katyal, Pankaj Sharma
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11. Study of amorphous Sn-Se-Bi-Te semiconducting materials at an average coordination number =2.4
    Rajan Sharma, S.C. Katyal, Shaweta Khanna, Vineet Sharma, Pankaj Sharma
    Materials Research Express , 6 (7) (2019)075209 (1-9)

12. Dependence of structural cross-linking, system energy and transition temperature on coordination number for Sm doped GST
    Sanjay Kumar, Pankaj Sharma, Vineet Sharma
    Results in Physics 13 (2019)102276(1-7)
13. Topological behaviour and glassy framework of GeTeSeGa chalcogenide glasses.
    Ekta Sharma, H. H. Hegazy, Vineet Sharma, Pankaj Sharma.
    Physica B: Condensed Matter, 562 (1) (2019) 100-106.

14. Structural, morphological, magnetic and optical study of co-precipitated Nd 3+ doped Mn-Zn ferrite nanoparticles
    Prashant Thakur, R.Sharma, M. Kumar, S.C. Katyal, P.B. Barman, Vineet Sharma, Pankaj Sharma
    Journal of Magnetism and Magnetic Materials, 479 (2019) 317-325.

15. Mn^{2+} Doped Mg–Zn Ferrite Nanoparticles for Microwave Device Applications
    Rohit Sharma, Prashant Thakur, Pankaj Sharma, Vineet Sharma.
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16. Nanomaterials for high frequency device and photocatalytic applications: Mg-Zn-Ni ferrites
    Rohit Sharma, Prashant Thakur, Manoj Kumar, Pankaj Sharma, Vineet Sharma
    Journal of Alloys and Compounds 746 **(2018)532-539.**

17. Effect of visible light on the structural and optical properties of (Ge2Sb2Te5)100−xAgx (x = 0, 1 and 3) thin films
    Palwinder Singh, Ramandeep Kaur, Pankaj Sharma, Vineet Sharma, Anup Thakur
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18. Enhancement in A-B Super-exchange Interaction with Mn 2+ Substitution in Mg-Zn Ferrites as a Heating Source in Hyperthermia Applications
    Rohit Sharma, Prashant Thakur, Manoj Kumar, P.B. Barman, Pankaj Sharma, Vineet Sharma
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19. Optical Band Gap Tuning of Ag Doped Ge2Sb2Te5 Thin Films
    Palwinder Singh, R. Kaur, Pankaj Sharma, Vineet Sharma, Monu Mishra, Govind Gupta, Anup Thakur
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20. Recent Developments on the Synthesis, Structural and Optical Properties of Chalcogenide Quantum Dots
    Subhash Chand, Nagesh Thakur, S.C. Katyal, P.B. Barman, Vineet Sharma, Pankaj Sharma
    Solar Energy Materials and Solar Cells 168 **(2017)183-200.**

21. Linear and non-linear optical properties of Ag doped Ge2Sb2Te5 thin films estimated by single transmission spectra
    Palwinder Singh, Pankaj Sharma, Vineet Sharma, Anup Thakur
    ***Semiconductor Science and Technology 32* (4) *(2017)* 045015**

22. Gd^{3+} doped Mn-Zn soft ferrite nanoparticles: Superparamagnetism and its correlation with other physical properties
    Prashant Thakur, Rohit Sharma, Vineet Sharma, P.B. Barman, Manoj Kumar, Dipto Barman, SCKatyal, Pankaj Sharma
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23. Structural and optical properties of $Mn_{0.5}Zn_{0.5}Fe_2O_4$ nano ferrites: Effect of sintering temperature
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    Materials Chemistry and Physics 193 (2017) 285-289

24. Ferrimagnetic Ni^{2+}doped Mg-Zn spinel ferrite nanoparticles for high density information storage
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    Progress in Solid State Chemistry Vol 44 (4) (2016) 131-141.

26. Improvement in magnetic behaviour of cobalt doped magnesium zinc nano-ferrites via co-precipitation route
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49. Optical analysis of $Ge_{19}Se_{81-x}Sb_x$ thin films using single transmission spectrum
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Vineet Sharma, Anup Thakur, Jeewan Sharma, Vivek Kumar, SanjeevGautam, S.K. Tripathi
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A. Thakur, Vineet Sharma, N. Goyal, G.S.S. Saini and S.K. Tripathi
in***'Materials and their Applications'*** Edited by N. Singh, R. K. Moudgil and S. Aggarwal, Kurukshetra University Press **(2005) pp. 227-230**.

102. Effect of In Impurity on the Electrical Properties of Se-Te Alloy'.
Vineet Sharma,A. Thakur, N. Goyal, G.S.S. Saini and S.K. Tripathi
in***'Materials and their Applications'*** Edited by N. Singh, R. K. Moudgil and S. Aggarwal, Kurukshetra University Press (2005) pp. 231-234.

103. 'Optical Properties of a-Ge-Se-Sn thin films.'
A.Thakur, Vineet Sharma, G. Singh, J. Sharma, G.S.S. Saini, N. Goyal and S.K. Tripathi
in: Proceedings of 7th International Conference on Optoelectronics, Fibre Optics and Photonics
'Photonics- 2004' OMDP31 (2004), http://eel.iust.ac.ir/Sadr/Papers/omdp31.pdf, p.1-6

104. 'Recombination Mechanism in a-$(Ge_{20}Se_{80})_{99.5}Cu_{0.5}$ Thin Films'.
Anup Thakur, Vineet Sharma, G.S.S. Saini, N. Goyal and S.K.Tripathi
***Solid State Physics (India),*Vol.49 (2004) 396-397**.

105. 'Electrical Properties in a-Se-Te-In Thin Films'
Vineet Sharma, Anup Thakur, N. Goyal, G.S.S. Saini and S.K. Tripathi
***Solid State Physics (India),*Vol.49 (2004) 348-349**.

Papers presented in Conferences:

1 Effect of Gd doping on the optical band gap of Mn-Zn nano ferrites; Innovations & Challenges In Basic & Applied Sciences (ICBAS-2017) School Of Basic & Applied Sciences Maharaja Agrasen University Baddi, Distt. Solan, H.P.-174103, March 04, 2017

2 Structural And Optical Analysis Of $Mg_{0.625}Zn_{0.375}Fe_2O_4$
National Conference on 'Recent Innovations in Applied Sciences and Humanities'(NCASH-2015) Rawal Institute of Engineering and Technology, Faridabad, October 10, 2015

3 Structural analysis of magnesium zinc ferrite synthesized by co-precipitation method.
International Conference on "Emerging Trends in Basic and Applied Sciences" Maharaja Agrasen University, Baddi , Solan, Himachal Pradesh, India, May 1-2, 2015

4 Heating changes on the photoconductive behaviour of SeTeSn Thin Film
National Conference on Recent Trends in Materials Science (RTMS-2011) Jaypee University of Information Technology Waknaghat, Solan, HP, 08-10 October 2011

5 Chemical Bond Distribution and Cohesive Energy of $Ge_{19}Se_{81-x}Sb_x$ System
National Conference on Research methods in Science, Technology and Management (REMET-2011), , Green Hills Engineering college, Kumarhatti , Solan, HP, 26-27 March, 2011

6 Theoretical Calculation of Glass Transition Temperatures for SbSeGe System
National Conference on Research methods in Science, Technology and Management (REMET-2011), Green Hills Engineering college, Kumarhatti , Solan, HP, 26-27 March, 2011

7 Structural and Optical Study of Chemical Bath Deposited Nano-Structured CdS Thin Films
International Conference on Advances in Condensed & Nano Materials, Department of Physics, Panjab University, Chandigarh, India 23–26 February 2011

7. Studies of Tramadol hydrochloride in aqueous alcoholic mixture at 25^{o}C
Recent Advances in Analytical Sciences, ISAS Delhi Chapter & Department of Chemistry, Himachal Pradesh University, Shimla-171005, India, April 12-14, 2010.

8. Light induced changes in Se-Te Thin Film
National Conference on Recent Advances in InnovativeMaterials (RAIM-2008), Department of Applied Sciences and Humanities, National Institute of Technology Hamirpur –177005 (HP)India. February 16-17, 2008

9. Isothermal Annealing Changes on the Electrical Properties of $Se_{79}Te_{15}Sn_6$ Thin Film
Recent Advances in Analytical Sciences and Applications, Department of Chemistry, Himachal Pradesh University, Shimla-171005, India, April 09-11, 2007.

10. Progressive Annealing Effects on the Electrical Properties of $a\text{-}Se_{75}Te_{15}Sn_{10}$ Thin Film
National Conference on Recent Advances in Material Science (RAMS-06), Department of Physics, Kurukshetra University, Kurukshetra, India, September 27-29, 2006.

11. Electrical Properties of a-$Se_{85-x}Te_{15}Sn_x$Thin Films;
XV International Symposium on non-oxide and new optical glasses, April 10-14, 2006 Department of Physics, Indian Institute of Science, Bangalore, India

12. Electrical Properties in a-Se-Te-Sn Thin Films .
50th Golden Jubilee Solid State Physics Symposium, BARC Mumbai, India, December 05-09, 2005.

13. Electrical Properties in a-Se-Te-In Thin Films
49th DAE Solid State Symposium, Guru Nanak Dev University, Amritsar, India, December 26-30, 2004.

14. Effect of In Impurity on the photoconductivity of $Se_{85}Te_{15}$ films
National Conference on Materials and their Applications (NCMA-2004) Kurukshetra University, Kurukshetra, India. March 11-13, 2004.

15. Effect of thermal annealing on the electrical properties of $(Se_{85}Te_{15})0_{.98}Sn_{0.02}$ thin films
National Seminar on Materials and Devices (MD-2002), M.J.P. Rohilkhand University, Bareilly, India, March 09-10, 2002.

FDPs attended:

1. One week FACULTY DEVELOPMENT PEOGRAM on "Effective Online Teaching and Learning" organised by Dr. SSBUICET, Panjab University in collaboration with Dibrugarh University Institute of Engineering and Technology, Assam under TEQIP-III (MHRD, Govt. of India)September 14th to September 19th, 2020.
2. One week Faculty Development Program on "Computational Intelligence Techniques for Machine Learning" organized by the Dept. of CSE & IT, JUIT, Waknaghat-173234 (H.P.), India, from August 31 to September 5, 2020.
3. Two weeks Faculty Development Program on "Ambient Technologies: State-of-Art, Challenges, and Future Directions" organized by the Dept. of CSE & IT, JUITWaknaghat-173234 (H.P.), India, July 27,2020 to August 8, 2020.

4. Online AICTE Recognized Faculty Development Programme on Quantum and Energy Materials: Potential & Applications20-04-2020 to 24-04-2020 (One Week) Applied Science Department, NITTTR, Chandigarh
5. Online AICTE Recognized Faculty Development Programme On Nanomaterials and Devices 27-04-20 to 01-05-20 (One Week) Applied Science Department, NITTTR, Chandigarh
6. Faculty Development Programme, 14 -19 July 2014, JUIT Waknaghat.
7. AICTE Sponsored Faculty Development Program on Computer Aided VHDL, 03-13 March 2008, JUIT Waknaghat,
8. Faculty Development Programme, JIIT Noida, 11-15 July, 2005

Workshops attended:

1. Two day workshop on "Advanced Functional Materials" sponsored byTEQIP-III and organized by Department of Applied Sciences,Punjab Engineering College (Deemed to be University), Chandigarh. July 25-26, 2020
2. Workshop on Patent Filing and Geographical Indications of Himachal Pradesh, HIMCOSTE & JUIT Waknaghat, 30th November , 2018
3. Workshop on Patent drafting & ipr: Problems & solutions, HIMCOSTE & JUIT Waknaghat, 13th October, 2017
4. International Workshop on X-ray Absorption spectroscopy: Materials-Analysis inside Tool GIAN Workshop, GIAN & Panjab University Chandigarh 03-08 October 2017.
5. Workshop on Patent Filing & Geographical Indications, IPR Cell, Jaypee University Of Information Technology, Waknaghat, Solan, (H.P.) in Collaboration With Himachal Pradesh Patent Information Centre, Shimla, (H.P.) (HPPIC) 27th February, 2017
6. One Week short term course on Cyber Crime & Forensic Tools through ICT, organized by NITTTR Chandigarh & JUIT, 06th- 10th February 2017
7. One day workshop on Innovation and Intellectual Property Rights, 9thDecember 2016, JUIT Waknaghat
8. Workshop on Statistical Techniques in Biological and Medical Sciences STBMS- 16, 13-18 June 2016, JUIT Waknaghat.
9. National Program on Differential Equations: Theory, Computation & Applications (NPDETCA), 19-25 October,2015 JUIT Waknaghat.
10. Workshop on "Combinatorics and Graph Theory in Science and Engineering" 03-08 November, 2014,JUIT Waknaghat.
11. One week Workshop on "Nanotechnology (Fabrication and Characterization)" December 11,2013 JUIT Waknaghat.
12. Two Day Workshop on "Antenna Materials" 14– 15 December, 2012, JUIT Waknaghat.
13. One week IUCEE workshop on "Opto-Electronic and Electronic Materials" 30 June 2011 at JUIT Waknaghat.
14. Workshop on "Characterization Tools for Materials" Department of Physics, Panjab University, Chandigarh, India February 22, 2011
15. Contact Meeting for Popularizing the National Fusion Programme CMPNFP-08, (Northern Region), Department of Applied Sciences and Humanities, National Institute of Technology Hamirpur – 177005 (HP) India with Board of Research in Fusion Science and Technology (BRFST), 29th November 2008.
16. Workshop on Emerging Technologies in Nano-Science (WETNS–08)February 20, 2008, Department of Physics, Punjabi University Patiala–147 002 Punjab (INDIA).
17. National Symposium on Nanomaterials Design: Bridging Nanolength Scale (NSNMD) November 17, 2007, Department of Applied Sciences and Humanities, National Institute of Technology Hamirpur – 177005 (HP) India.

Conferences/ Seminars/ Symposia Attended:

1 "A Virtual International Conference on Environmental Sustainability and Smart Agriculture" Organized by Centre of Excellence in Sustainable Technologies for Rural Development [CESTRD], Department of BI & BT, Jaypee University of Information, Technology, Waknaghat, Solan, INDIA September 18-19 2020.
2 Innovations & Challenges In Basic & Applied Sciences (ICBAS-2017) School Of Basic & Applied Sciences Maharaja Agrasen University Baddi, Distt. Solan, H.P.-174103, March 04, 2017
3 National Conference on 'Recent Innovations in Applied Sciences and Humanities'(NCASH-2015) Rawal Institute of Engineering and Technology, Faridabad, October 10, 2015
4 International Conference on "Emerging Trends in Basic and Applied Sciences" Maharaja Agrasen University, Baddi , Solan, Himachal Pradesh, India, May 1-2, 2015
5 International Conference on Advances in Condensed & Nano Materials, Department of Physics, Panjab University, Chandigarh, India23–26 February 2011
6. National Conference on Recent Advances in Innovative Materials (RAIM-2008), February 16-17, 2008 Department of Applied Sciences and Humanities, National Institute of Technology Hamirpur – 177005 (HP) India.
7. National Symposium on Nanomaterials Design: Bridging Nanolength Scale (NSNMD) November 17, 2007, Department of Applied Sciences and Humanities, National Institute of Technology Hamirpur – 177005 (HP) India.
8. Recent Advances in Analytical Sciences and Applications, April 09-11, 2007, Department of Chemistry, Himachal Pradesh University, Shimla-171005, India.
9. Recent Trends in Synthetic and Polymer Chemistry (RTSPC-II), March 23-24, 2007, Department of Chemistry, Himachal Pradesh University, Shimla-171005, India.
10. National Conference on Recent Advances in Material Science (RAMS-06), September 27-29, 2006 Department of Physics, Kurukshetra University, Kurukshetra, India.
11. XV International Symposium on non-oxide and new optical glasses, April 10-14, 2006 Department of Physics, Indian Institute of Science, Bangalore, India.
12. 50th Golden Jubilee Solid State Physics Symposium, December 05-09, 2005, BARC Mumbai.
13. 49th DAE Solid State Symposium, December 26-30, 2004, Guru Nanak Dev University, Amritsar, India.
14. 91st Indian Science Congress, January 3-7, 2004, Panjab University, Chandigarh - 160 014, India.
15. DAE Solid State Symposium, December 28-31, 2002, Panjab University, Chandigarh - 160 014, India.
16. Second National Conference on Thermophysical Properties (nctp-2002), September 19-21, 2002, University of Rajasthan, Jaipur, India.
17. Conference on Computational Physics, March 06-07, 2002, Panjab University, Chandigarh - 160 014, India.
18. National Seminar on Materials and Devices (MD-2002), March 09-10, 2002, M.J.P. Rohilkhand University, Bareilly, India.