

Curriculum Vitae

Dr. Puneet Negi

Associate Professor and Head

Department of Physics

Akal College of Basic Sciences,

Convener, Research Program & Policy Development

Committee, Research and Development Cell (RDC);

Member Secretary, IQAC; Eternal University, Baru Sahib,

Via Rajgarh, Ditt.-Sirmaur, Himachal Pradesh, Pin-

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Associate Editor: [Prabha Materials Science Letters \(PMSL\)](#)---Scopus Indexed Journal

Reviewer: *Scientific Reports, Current Journal of Applied Science & Technology, Physical Science International Journal, Journal of Electronic Materials, Current Microbiology, Materials Today Communications, Results in Materials, Optical Materials, Materials Chemistry and Physics, Vacuum, Ceramics International; Nano-Structures & Nano-Objects, Heliyon, Results in Surfaces and Interfaces, Journal of Industrial and Engineering Chemistry, Next Materials, Journal of Energy Storage, Energy for Sustainable Development*

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Research IDs:

Scopus Id: <https://www.scopus.com/authid/detail.uri?authorId=57195597122>

Orcid Id: <https://orcid.org/0000-0001-8279-6281>

Web of Science: <https://www.webofscience.com/wos/author/record/705929> (R-1884-2017)

Research Gate: <https://www.researchgate.net/profile/Dr-Puneet-Negi>

Google Scholar: <https://scholar.google.com/citations?user=SVjCL2UAAAAJ&hl=en>

(h-index: 17; i10-index: 22)

Research Interest: Materials Science, Nanotechnology, Solar Energy Materials, Solar Energy Technology, Biophysics

PERSONAL DETAILS

Date of Birth : October 29, 1984

Sex : Male

Nationality : Indian

Permanent Address : S/O: Shri Yashpal Singh Negi, Vaidik Sadan (90), Shiv Colony, Shivalpur Pandey, Ramnagar, Ramnagar Range, Nainital, Uttarakhand -244715.

Residential Address : Room No.- 05/65, Sangat Building, Eternal University, Baru Sahib, Via Rajgarh, Ditt.- Sirmaur, Himachal Pradesh, Pin- 173101

PROFESSIONAL OBJECTIVE

To establish a career in the field of Teaching, Research and Development, where I can hone my skills and endorsed to the utmost.

EDUCATIONAL QUALIFICATIONS

Exam. Passed	Board/University	Roll No. (Year of Passing)	%marks	Div.	Subjects	Remarks
Ph.D.	G.B. Pant University of Ag. & Tech. Pantnagar (College of Basic Science & Humanities)	(2014)	76.46%	First	Major: Physics Minor: Computer Science	Awarded
*Title of the Thesis: Swift Heavy Ion Irradiation Induced Effect on Nanostructured Multiferroic Gadolinium Manganite ($GdMnO_3$) and It's Derivatives University Name: G.B. Pant University of Agriculture and Technology, Pantnagar Guide's Name: Dr. H.M. Agrawal, (Rtd.) Prof. & Head Department of Physics, GBPUAT, Pantnagar						
B.Ed.	H.N.B. Garhwal University (K.L.D.A.V.P.G. College Roorkee)	(2007)	74% (Theory) & 88% (Practical)	First	Teaching of Mathematics & Science & others	Specialization in Electronics
M.Sc.	Kumaun University, Nainital (D.S.B. Campus, Nainital)	(2006)	63.9%	First	Physics	
B.Sc.	Kumaun University, Nainital (P.N.G. Govt. P.G. College Ramnagar, Nainital)	(2004)	73.6%	First	Physics, Chemistry, Mathematics	
Intermediate	U.P. Board (G.I.C. Ramnagar, Nainital)	(2001)	67.8%	First	General Hindi, English, Physics, Chemistry, Mathematics	Distinction in Physics
High School	U.P. Board (G.I.C. Vanbhoolpura, Haldwani, Nainital)	(1999)	74.5%	First	English, Hindi, Social Science, Biology, Science-Two, Mathematics-Two	Distinction in Hindi, Social Science & Biology

TEACHING EXPERIENCE (11 Years 10 Months 24 Days)

Designation	University	Duration	From	To	Pay Scale
Associate Professor (Regular)	Department of Physics (ACBS), Eternal University, Baru Sahib (H.P.) (01 Y 04 M 17 D)	01 Y 04 M 17 D	01/03/2025	18/07/2026 (Continuing)	37400-67000 (9000)

Assistant Professor (Sr. Scale) (Regular)	Department of Physics (ACBS), Eternal University, Baru Sahib (H. P.) (01 Y 04 M 27 D)	01 Y 04 M 27 D	01/10/2023	28/02/2024	15600-39100 (7000)
Assistant Professor (Regular)	Department of Physics (ACBS), Eternal University, Baru Sahib (H. P.) (07 Y 09 M 20 D)	07 Y 09 M 20 D	10/02/2016	30/09/2023	15600-39100 (6000)
Assistant Professor (Ad hoc)	Department of Physics (ACBS), Eternal University, Baru Sahib (H.P.) (00 Y 02 M 04 D)	00 Y 02 M 04 D	05/12/2015	09/02/2016	15600-39100 (6000)
Teaching Personnel (Contractual)	Department of Physics (CBSH), G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand, India. (01 Y 00 M 16 D) During Ph.D. (Not Included in the Experience)	00 Y 03 M 19 D	11/08/2015	30/11/2015	30000
		00 Y 04 M 10 D	20/01/2015	30/05/2015	20000
		00 Y 04 M 17 D	07/08/2014	24/12/2014	20000
		00 Y 04 M 00 D	21/01/2014	21/05/2014	16000

Teaching Skills: Experience of smart board and pen-tab teaching including traditional black board, white board teaching

RESEARCH EXPERIENCE: [03 Years (during Ph. D.) + 03 Years (as a Project JRF along with Ph.D.) + 11 Years 10 Months 24 Days (during Teaching) = 17 Years 10 Months 24 Days]

- ✓ Worked as JRF in a research project entitled “**Swift Heavy Ion Irradiation Induced Effect on thin films of Nanostructured Multiferroic Gadolinium Manganite (GdMnO₃) and its derivatives**” at Department of Physics, G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand, funded by IUAC, New Delhi through UGC from 1 April 2011 to 31 March 2014.
- ✓ Some outstanding experiments were performed at following well recognized labs:
 - Inter University Accelerator Centre (IUAC) New Delhi.
 - UGC-DAE Consortium for Scientific Research (Indore).
 - UGC-DAE Consortium for Scientific Research (Kolkata).
 - Jawaharlal Nehru University (JNU) Delhi.

Technical Skills

(1) Synthesis/ Modification Techniques:

- Sol-gel and co-precipitation techniques
- Solid-state reaction method
- Pulsed laser deposition Technique (PLD)
- Swift heavy ion irradiation

(2) Characterization Techniques

- X-ray Diffraction Spectroscopy
- Raman Spectroscopy
- Fourier Transform Infrared Spectroscopy
- UV-Visible Spectroscopy
- Scanning Electron Microscopy
- Transmission Electron Microscopy
- Rutherford Backscattering Spectrometry
- Atomic Force Microscopy
- Vibrating Sample Magnetometry
- SQUID Magnetometry
- Dielectric Spectroscopy

(3) Scientific Software's/ programming:

- PowderX, Fullprof, Origin, SRIM, WSxM, Xrump, SIMNRA.
- Basic programming of FORTRAN 77; C & MATLAB.

(4) AI Tools:

- ChatGPT, Google Gemini, Canva, NotebookLM

EXTRAMURAL PROJECT COMPLETED (AS A PRINCIPAL INVESTIGATOR)

Project Title: Design of Low Cost Mixed Solar Drying System for Horticultural and Agricultural Commodities of H.P.

Funding Agency: Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)/ State Council for Science, Technology & Environment (SCSTE), Himachal Pradesh

Sanction Order: Diary No.: SCSTE /F(8)-1/2017- 5075-76, dated 28-12-2017

Amount: Rs. 5,80,000 /-

INTRAMURAL PROJECT ONGOING (AS A PRINCIPAL INVESTIGATOR)

S. No.	Title of project	Duration	Funding agency to which submitted along with budget in Lakh Rs	Status of the project	Date of Sanctioned
1.	Fabrication of Solar Water Heater Utilizing Biodegradable Novel Insulation and Locally Available Materials for Hilly Climate	2 Year	Incubation and Entrepreneurship Cell, Eternal University Baru Sahib (0.20 Lakh)	Sanctioned	October 23, 2023
2.	Design of Low Cost Spin Coating Machine for the Fabrication of Thin Films and Solar Cells	2 Year	Incubation and Entrepreneurship Cell, Eternal University Baru Sahib (0.20 Lakh)	Sanctioned	October 23, 2023

PATENTS

1. A provisional Patent has been filed entitled "AN IMPROVED SOLAR DRYER AND ITS APPLICATION THEREOF" with Ref. No.: 202011035818 and Application No.: TEMP/E-1/39733/2020-DEL on August 20, 2020.
2. A Design IP has been filed entitled "SOLAR POWERED DRYER WITH ECOFRIENDLY PINE NEEDLE INSULATION" with Ref. No.: 435619-001 and C.B.R. No.: 219762 on October 25, 2024.

POLICY DOCUMENTS

3. As being member Secretary, SRIC, Eternal University Baru Sahib involved in designing and developing "RESEARCH PROMOTION AND INCENTIVE POLICY (Version 1.0)" Pages 10. (<https://eternaluniversity.edu.in/docs/ResearchPromotionandIncentivePolicy.pdf>).
4. Framed EU-Environment Policy.

RECOGNITIONS/HONORS AND AWARDS/ACHIEVEMENTS

- ✓ Associate Editor of Prabha Materials Science Letters (ISSN: 2583-5114) (*Ram Arti Publishers, India*) --- Scopus Indexed Journal
- ✓ Reviewer of Reputed Peer-Reviewed International Journals:
 - *Journal of Energy Storage* (Impact Factor: 10.7) Q1 Journal
 - *Journal of Industrial and Engineering Chemistry* (Impact Factor: 7.1) Q1 Journal
 - *Results in Surfaces and Interfaces* (Impact Factor: 6.2) Q1 Journal
 - *Ceramics International* (Impact Factor: 6.0) Q1 Journal
 - *Energy for Sustainable Development* (Impact Factor: 5.2) Q1 Journal
 - *Materials Chemistry and Physics* (Impact Factor: 5.2) Q1 Journal
 - *Materials Today Communications* (Impact Factor: 4.9) Q1 Journal
 - *Next Materials* (Impact Factor: 4.7) Q1 Journal
 - *Optical Materials* (Impact Factor: 4.3) Q1 Journal
 - *Nano-Structure & Nano-Objects* (CiteScore: 8.5) Q1 Journal
 - *Heliyon* (Impact Factor: 3.6) Q1 Journal
 - *Result in Materials* (CiteScore: 6.5) Q2 Journal
- ✓ Delivered invited talk on the topic "*Discovery of Raman Scattering and Electron Microscopy: Exploring Nanoscience and Nanotechnology Inspired by Nature*" on National Science Day-2026, organized by Department of Physics, Akal College of Basic Sciences, Eternal University Baru Sahib (H.P.) during February 28, 2026.
- ✓ External Examiner: Question paper setting of BPP-201 (Oscillations, Wave and Optics) for the 1st Semester, 2024-25, Final Examination of B.Tech. Program, G.B. Pant University of Agriculture and Technology Pantnagar, Distt.- U.S. Nagar, Uttarakhand (Oct 30, 2024).
- ✓ External Examiner: Question paper setting of BPP-151 (Waves Optics and Introduction to Quantum Mechanics) for the 2nd semester, 2023-24, Final Examination of B.Tech. Civil Engineering Program, G.B. Pant University of Agriculture and Technology Pantnagar, Distt.- U.S. Nagar, Uttarakhand (June 01, 2024).
- ✓ Session Chair in a series of conferences jointly organized by Department of Physics, Saurashtra University, Rajkot Gujrat; Vigyan Gurjari (Gujrat Prant Unit of Vigyan Bharati-VIBHA) & GUJCOSTE, DST, GoG under Gujrat Vigyan Sammelan (GVS)-2024 [March 4-15, 2024], on March 11, 2024.
- ✓ Delivered an Expert Talk on the topic "How to convert an Idea into Patent?" on World Intellectual Property Day (April 26, 2024) under the theme: IP and the SDGs: Building Our Common Future with Innovation and Creativity organized by Institution's Innovation Council in collaboration with EU Clubs Aligned with SDGs, Eternal University Baru sahib.
- ✓ Received certificate of excellence in peer-reviewing in recognition of an outstanding contribution to the quality of the book on October 06, 2023 from BP International.

- ✓ Received certificate for outstanding service as a technical reviewer for the Fifth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2023) held at Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India during 13 - 14, April 2023.
- ✓ Awarded *Certificate of Excellence* in reviewing in recognition of an outstanding contribution to the quality of the Journal "Physical Science International Journal" in year 2023. Certificate No: SDI/HQ/PR/Cert/96234/DRP dated February 04, 2023.
- ✓ External Examiner: Question paper setting of BPP-151 (Waves Optics and Introduction to Quantum Mechanics) for the 2nd semester 2023-24 final examination of B.Tech. Civil Engineering Program, G.B. Pant University of Agriculture and Technology Pantnagar, Distt.- U.S. Nagar, Uttarakhand (Submitted on June 01, 2024)
- ✓ External Examiner: Question paper setting of Course No.: BPP-142, Course Title: Modern Physics and Instrumentation, B.Tech. (Biotechnology), IInd Semester, Final Examination- 2022-23, College of Basic Sciences & Humanities, G.B. Pant University of Agriculture and Technology Pantnagar, Distt.- U.S. Nagar, Uttarakhand.
- ✓ External Examiner: Evacuated the M.Sc. thesis entitled "Study of Gamma Radiation Shielding Potential of Erbium-Zinc-Boro-Tellurite (EZBT) Glass Matrix" of Mr. Manish Singh Rautela (Id No.: 56616), Department of Physics, G.B. Pant University of Agriculture and Technology Pantnagar, Distt.- U.S. Nagar, Uttarakhand. The viva-voce examination was conducted through online mode using Google meet link: <http://meet.google.com/xut-upxv-mpa> on November 09, 2022.
- ✓ Received "Meritorious Teacher Award- 2020" in the 8th Convocation of Eternal University Baru Sahib held on May 07, 2022.
- ✓ Awarded *Certificate of Excellence* in reviewing in recognition of an outstanding contribution to the quality of the Journal "Current Journal of Applied Science and Technology" in year 2021. Certificate No: SDI/HQ/PR/Cert/70148/PUN
- ✓ Invited as an Eminent Speaker: Delivered a popular science lecture on "Nanoscience and Nanotechnology: Inspired From Existing Science in Nature" during VIRTUAL SCIENCE FESTIVAL-2021 [February 28, (National Science Day) - March 06, 2021] on March 02, 2021 organized by Physics Association and Botany Association of Radhey Hari Govt. P.G. College, Kashipur, Uttarakhand.
- ✓ Resource person for "Scientific Project Report Competition" in 28th HP Children's Science Congress 2020 organized by the Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE), Kasumpti, Shimla through online mode during January 28 -30, 2021.
- ✓ External Examiner: Evacuated the M.Sc. thesis entitled "Investigation of Structural and Elastic Parameters of Nickel Ferrite by XRD and FTIR" of Ms. Nidhi Rawat (Id No.: 53986), Department of Physics, G.B. Pant University of Agriculture and Technology Pantnagar, Distt.- U.S. Nagar, Uttarakhand. The viva-voce examination was conducted through online mode using Google meet link: <http://meet.google.com/wif-cboi-dip> on February 12, 2021.
- ✓ External Examiner: Invited as an external examiner for the End Semester Practical Examinations of B.Sc. (IIIrd) and M.Sc. (IInd) year students at the Department of Physics, School of Basic and Applied Sciences, Lingaya's Vidyapeeth, Faridabad on July 30- 31, 2020.
- ✓ Delivered a Guest lecture on "Save Energy", organized by Save Energy Club, IB School, Baru sahib on July 18, 2020.
- ✓ Received the First Prize in oral presentation for presenting a research paper entitled "*Fabrication of Low Cost Solar Drying System Using Locally Available Materials for Preserving Agriculture and Horticulture Commodities*" in a multi-track national conference (SLIETCON-2019) organized by Sant Longowal Institute of Engineering and Technology, Longowal during March 01-02, 2019 at National Institute of Technical Teachers Training and Research, Chandigarh.

- ✓ Received appreciation letter as being Active Member of AQAR compilation committee from Director, IQAC for successfully submitting the AQAR 2018-19 of Eternal University on Oct 19, 2019.
- ✓ Resource Person for the demonstration of solar dryer system and involved in Panel Discussion in two days' National workshop on "Solar and Smart Energy Systems for Sustainable Environment" during 6-7 April, 2018.
- ✓ Delivered Guest Lecturer on "Basics of Raman Effect, Nanostructures Around Us and The Inspired Materials" in DST INSPIRE Internship Science Camp 2018 (DIISC-2018) sponsored by Department of Science & Technology, New Delhi and organized by Eternal University Baru Sahib (H.P.) during January 03-09, 2018.
- ✓ Resource Person for demonstration of Physics Experiments in DST INSPIRE Internship Science Camp 2018 (DIISC-2018) sponsored by Department of Science & Technology, New Delhi and organized by Eternal University Baru Sahib (H.P.) during January 03-09, 2018.
- ✓ Resource person in a two days workshop on "Robotics, LED Making, Model Rocketry, Astronomy and Hydroponics" in *Science Exhibition* during 2nd International Conference on Innovative Research in Engineering, Science and Technology (IREST-2017) at Eternal University, Baru Sahib organized by ACET, Eternal University, Baru Sahib & Sponsored by DST (New Delhi) in association with Vigyan Prasar (Noida) and Himachal Pradesh Patent Information Center (Shimla), India during April 07 -08, 2017.
- ✓ Resource person as an evaluator of "Science Model" in 25th HP Children Science Congress 2017 organized by the Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE), Kasumpti, Shimla at Dr. Y. S. Parmar University of Horticulture & Forestry, Nauni, Solan during October 30th - November 02nd, 2017.
- ✓ Received International Travel Support (ITS) grant (Sanction order: Vide Diary No. SERB/F/7533/2014-15 Dated 02-02-2015) and under the same received reimbursement of amounting Rs. 96957 /- in year 2014-15 (Order: File No. SB/ITS-Y/01682/2014-15 Dated 19-02-2015).
- ✓ JRF in a research project entitled "Swift Heavy Ion Irradiation Induced Effect on thin films of Nanostructured Multiferroic Gadolinium Manganite (GdMnO₃) and its derivatives" funded by IUAC, New Delhi through UGC from 1 April 2011 to 31 March 2014.
- ✓ Qualified GATE Exam in Year 2010.

PUBLICATIONS

Research Articles

1. N Thakur, M Thakur, P Negi (2026) Insecticidal potential of nitrogen-doped titanium dioxide nanoparticles against *Helicoverpa armigera* larvae. *Nanotechnology for Environmental Engineering* 11 (79) <https://link.springer.com/article/10.1007/s41204-026-00573-6> [Cite Score- 7.1]
2. Thakur N, Sharma N, Negi P (2026). Larvicidal potential of pH-modulated titanium dioxide nanoparticles against fruit fly (*Bactocera cucurbitae*) under laboratory conditions. *Applied Nanoscience* 16, 23. <https://link.springer.com/article/10.1007/s13204-026-03156-8> [Cite Score- 8.8]
3. Ahluwalia KK, Saini A, Ahluwalia AS, Negi P, Thakur N (2025). Exploring Reproductive and Embryo Toxicity of Titanium Dioxide Nanoparticles Using Mosquito *Culex quinquefasciatus* as

4. Verma Y, Negi P, Konwar RJ et al. (2025). Influence of copper and cobalt ions co-doping on structural, optical and dielectric properties of nanostructured anatase titanium dioxide. *Journal of Sol-Gel Science and Technology*, <https://doi.org/10.1007/s10971-025-06888-1> [IF-4.2].
5. Singh N, Singh V, Bisht N, Negi P, Dhyani A, Sharma RK, Tewari BS (2025). A comprehensive review on supercapacitors: Basics to recent advancements. *Journal of Energy Storage*, 121, 116498, <https://doi.org/10.1016/j.est.2025.116498> [IF-8.9]
6. Goswami H, Rajyaguru B, Gadani K, Chondagar NA, Donga A, Raval N, Negi P, Ganesan V, Kandasami A, Shah NA, Solanki PS (2025). Charge transport across $\text{LaMnO}_3/\text{Nd}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ manganite interfaces: Role of swift heavy ion irradiation. *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2025.03.075> [IF-6.0]
7. Kaur G, Negi P, Konwar RJ, Kumar H, Devi N, Ranjan M, Sooraj KP, Trivedi H, Rajyaguru B, Barde NP, Bardapurkar PP, Shah NA, Solanki PS (2025). Exploring the role of nitrogen doping in tuning the band gap and electrical properties of sol-gel synthesized anatase titanium dioxide nanoparticles. *Optical Materials*, 162, 116851, <https://doi.org/10.1016/j.optmat.2025.116851> [IF-4.3]
8. Saini A, Ahluwalia KK, Ahluwalia AS, Thakur N, Negi P, Hashem A, Almutairi KF, Abd Allah EF, Fathi A (2024). Titanium Dioxide Nanoparticles-Induced Genotoxic Effects in Mosquito *Culex quinquefasciatus*. *Toxics*, 12(12):871, <https://www.mdpi.com/2305-6304/12/12/871> [IF-3.9]
9. Rathod VR, Tiwari M, Parmar M, Trivedi H, Maru A, Chondagar NA, Leher R, Radhanpura JD, Vadgama VS, Dadhich H, Gohel RJ, Negi P, Bardapurkar PP, Barde NP, Keshvani MJ, Jani YN, Shah NA, Solanki PS (2024). Investigations on electrical and sensing behaviors of Fe doped ZnO nanoparticles. *Nano-Structures & Nano-Objects*, 40, 101356, <https://doi.org/10.1016/j.nanoso.2024.101356> [CiteScore-9.2]
10. Kaur G, Negi P, Konwar RJ, Kumar H, Devi N, Kaur GS, Boruah R, Ranjan M, Sooraj KP, Raval N, Panchasara CM, Trivedi H, Rajyaguru B, Asokan K, Shah NA, Solanki PS (2024). Tweaking the structural, micro-structural, optical and dielectric properties of anatase titanium dioxide via doping of nitrogen ions. *Ceramics International*, 50 (22), 48138-48163, <https://doi.org/10.1016/j.ceramint.2024.09.165> [IF-5.1]
11. Negi R, Sharma B, Jan T, Kaur T, Khan SS, Yadav N, Rai AK, Rustagi S, Shreaz S, Kour D, Ahmed N, Negi P, Chowdhury S, Kapoor M, Singh S, Yadav AN (2024). Bioactive compounds as plant-based functional foods for human health: current scenario and future challenges. *Journal of Applied Biology & Biotechnology*, 13(1), 1-23, <https://doi.org/10.7324/JABB.2024.180889> [CiteScore-2.3]
12. Kaur G, Negi P, Konwar RJ, Kumar H, Devi N, Verma Y, Sharma A, Kaur GS, Sati PC, Dadhich H, Maru A, Jhala IG, Shah NA, Solanki PS (2024). Structural, optical, and electrical characteristics of anatase Titanium dioxide tailored by doping of Nitrogen and Copper ions. *Ceramics International*, 50 (16), 27710-27720, <https://doi.org/10.1016/j.ceramint.2024.05.068> [IF-5.1]
13. Kaur GS, Negi P, Konwar RJ, Kumar H, Devi N, Kaur G, Himani, Kaur MP, Sharma R, Sati PC, Kumar V, Sharma P, Singh JP, Yadav AN (2023). Tailored TiO_2 Nanostructures for Designing

of Highly Efficient Dye Sensitized Solar Cells: A Review. *Nano-Structures & Nano-Objects*, 36, 101056, <https://doi.org/10.1016/j.nanoso.2023.101056> [CiteScore-9.2]

14. Kumar H, Negi P, Singh JP, Srivastava RC, Ambreen S, Asokan K (2023). Tuning of structural, electrical and transport behaviour of cobalt nanoferrite by dysprosium ions substitution. *Ceramics International*, 49(16), 27294-27302, <https://doi.org/10.1016/j.ceramint.2023.05.284> [IF-5.1]
15. Sharma A, Negi P, Konwar RJ, Kumar H, Verma Y, Shailja, Sati PC, Rajyaguru B, Dadhich H, Shah NA, Solanki PS (2022). Tailoring of structural, optical and electrical properties of anatase TiO₂ via doping of cobalt and nitrogen ions. *Journal of Materials Science and Technology*, 111:287, <https://doi.org/10.1016/j.jmst.2021.09.014> [IF-11.2]
16. Kaur S, Konwar RJ, Negi P, Dhar S, Singh K, Chandel SS (2022). Utilization of biodegradable novel insulating materials for developing indigenous solar water heater for hill climates. *Energy for Sustainable Development*, 67:21-28, <https://doi.org/10.1016/j.esd.2022.01.001> [IF-4.4]
17. Kaur M, Kumar V, Kaur P, Lal M, Negi P, Sharma R (2021). Effect on the dielectric properties due to In–N co-doping in ZnO particles. *Journal of Materials Science: Materials in Electronics*, <https://doi.org/10.1007/s10854-021-05570-w> [IF-2.8]
18. Kaur M, Kaur P, Kaur G, Dev K, Negi P, Sharma R (2019). Structural, morphological and optical properties of Eu-N co-doped zinc oxide nanoparticles synthesized using co-precipitation technique. *Vacuum*, <https://doi.org/10.1016/j.vacuum.2018.06.046> [IF-4.0]
19. Sati PC, Sahni M, Kumar M, Arora M, Negi P, Tomar M, Gupta V, Kumar N (2019). Effect of Pr³⁺ substitution on structural, dielectric, electrical and magnetic properties of BiFe_{0.80}Ti_{0.20}O₃ [Bi_{1-x}Pr_xFe_{0.80}Ti_{0.20}O₃, x= 0.05, 0.10, 0.15] ceramics. *Integrated Ferroelectrics*, <https://doi.org/10.1080/10584587.2018.1514876> [IF-0.7]
20. Kaur G, Negi P, Kaur M, Sharma R, Konwar RJ, Mahajan A (2018). Morpho-structural and Opto-electrical Properties of Chemically Tuned Nanostructured TiO₂. *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2018.07.068> [IF-5.1]
21. Negi P, Dixit G, Agrawal HM, Kumar H, Srivastava RC, Sati PC, Gupta V, Asokan K (2017). Tuning of structural and optical properties by sintering of multiferroic GdMnO₃ precursor. *Ferroelectrics*, <https://doi.org/10.1080/10584587.2017.1458332> [IF-0.6]
22. Dixit G, Kumar P, Negi P, Asokan K (2017). Investigations of structural and transport properties of Ca doped yttrium manganites. *Ferroelectrics*, <https://doi.org/10.1080/10584587.2017.1458333> [IF-0.6]
23. Negi P, Agrawal HM, Singh JP, Kumar H, Srivastava RC, Asokan K, Chae KH (2017). Magnetic Behaviour of Granular GdMnO₃ Film. *Journal of Superconductivity and Novel Magnetism*, <https://doi.org/10.1007/s10948-017-4172-2> [IF-1.7]
24. Kumar H, Srivastava RC, Singh JP, Negi P, Agrawal HM, Chae KH (2015). Structural and Magnetic study of Dysprosium substituted Cobalt Ferrite Nanoparticles. *Journal of Magnetism and Magnetic Materials*, <https://doi.org/10.1016/j.jmmm.2015.04.008> [IF-2.5]
25. Kumar H, Singh JP, Srivastava RC, Negi P, Agrawal HM, Asokan K, Won SO, Chae KH (2015). Consequences of electronic excitations in CoFe_{1.90}Dy_{0.10}O₄. *Current Applied Physics*, <https://doi.org/10.1016/j.cap.2015.05.018> [IF-2.4]

26. Kumar H, Singh JP, Srivastava RC, Negi P, Agrawal HM, Asokan K, Won SO, Chae KH (2015). Onset of size independent cationic exchange in nano-sized CoFe_2O_4 induced by electronic excitation. *Journal of Alloys and Compounds*, <https://doi.org/10.1016/j.jallcom.2015.04.004> [IF-5.8]
27. Negi P, Agrawal HM, Srivastava RC (2014). Structural, specific heat and magnetoresistive properties of $\text{Gd}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. *International Journal of Materials Engineering Innovation*, <https://doi.org/10.1504/IJMIEI.2014.06548> [Cite Score: 1.7]
28. Kumar H, Srivastava RC, Negi P, Agrawal HM, Singh A (2014). Effect of Sintering Temperature on the Structural Properties of Cobalt Ferrite Nanoparticles. *International Journal of Materials Engineering Innovation*, <https://doi.org/10.1504/IJMIEI.2014.065489> [Cite Score: 1.7]
29. Kumar H, Singh JP, Srivastava RC, Negi P, Agrawal HM, Asokan K (2014). FTIR and Electrical Study of Dysprosium Doped Cobalt Ferrite Nanoparticles. *Journal of Nanoscience*, <https://doi.org/10.1155/2014/862415> [ISSN: 2314-6931]
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31. Singh JP, Dixit G, Srivastava RC, Negi P, Agrawal HM, Kumar R (2013). HRTEM and FTIR investigation of nanosized zinc ferrite irradiated with 100 MeV oxygen ions. *Spectrochim. Acta. A*, <https://doi.org/10.1016/j.saa.2013.01.062> [IF-4.4]
32. Dixit G, Negi P, Singh JP, Srivastava RC, Agrawal HM (2012). Effect of Ce Doping on the Magnetic Properties of NiFe_2O_4 Nanoparticles. *Journal of Superconductivity and Novel Magnetism*, <https://doi.org/10.1007/s10948-012-1621-9> [IF-1.7]
33. Negi P, Dixit G, Agrawal HM, Srivastava RC (2012). Structural, Optical and Magnetic Properties of Multiferroic GdMnO_3 Nanoparticles. *Journal of Superconductivity and Novel Magnetism*, <https://doi.org/10.1007/s10948-012-1565-y> [IF-1.7]
34. Kumar M, Sati PC, Kumar A, Sahni M, Negi P, Singh H, Chauha S, Chaurasia SK (2021). Recent advances on magnetoelectric coupling in BiFeO_3 : Technological achievements and challenges. *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2020.10.685> [CiteScore: 3.2]
35. Negi P, Agrawal HM, Srivastava RC, Asokan K (2012). Fabrication of multiferroic GdMnO_3 thin film by pulsed laser deposition technique. *AIP Conference Proceedings*, <https://doi.org/10.1063/1.4733854> [CiteScore: 0.7]
36. Negi P, Kumar H, Agrawal HM, Srivastava RC (2013). Magnetic Anomalies in Specific Heat and Dielectric Properties of Multiferroic GdMnO_3 . *AIP Conference Proceedings*, <https://doi.org/10.1063/1.4804924> [CiteScore: 0.7]

Book Chapters

1. Sharma S, Bhatrola K, Vaishali, Negi P, Chauhan G (2026). Plasmonics in optoelectronic devices. In: Mandal, P, Tewari, B.S., Gupta P (eds) *Applied Nanoplasmonics: Applications in*

Chemical Sensing and Radiation Detection. Elsevier, 249-263. ISBN: 978-0-443-29277-4; DOI: 10.1016/C2023-0-51943-3. <https://doi.org/10.1016/B978-0-443-29277-4.00010-0>

2. Negi R, Jan T, Sharma B, Kaur T, Kaur G, Thakur A, Yadav N, Kour D, Ahmed N, Negi P, Yadav AN, Ahluwalia AS **(2025)**. Microbial Nanotechnology: The Next-Generation Technology for Sustainable Agriculture. In: Pandey, A., Choure, K., El-Sheekh, M., Yadav, A.N. (eds) Plant-Microbe Interactions for Environmental and Agricultural Sustainability. Springer, Cham, 493-520. ISBN: 978-3-031-84939-8. https://doi.org/10.1007/978-3-031-84939-8_19
3. Perspective of Agro-Based Bioenergy for Environmental Sustainability and Economic Development. **(2021)** Singh D, Singh M, Sharma IP, Gabba D, Gola U, Suyal N, Singh N, **Negi P**, Kumar N, Giri K, Soni R, Suyal DC In: Renewable Energy and Green Technology Principles and Practices (Eds. N. Kumar et al.). CRC Press, pp. 10. ISBN: 9781003175926. DOI:10.1201/9781003175926-5
4. Advances in Microbial Bioresources for Sustainable Biofuels Production: Current Research and Future Challenges. **(2020)** Kaur T, Devi R, Kour D, Yadav N, Prasad S, Singh A, **Negi P**, Yadav AN In: Biofuels Production–Sustainability and Advances in Microbial Bioresources (Eds. Yadav AN et al.) Springer International Publishing, Switzerland ISBN: **978-3-030-53933-7**. DOI: 10.1007/978-3-030-53933-7
5. Technologies for biofuel production: current development, challenges, and future prospects **(2019)** D Kour, KL Rana, N Yadav, AN Yadav, AA Rastagari, C Singh, **P Negi**, K. Singh, AK Saxena, *In: AA Rastegari, AN Yadav, A Gupta (Eds) Prospects of Renewable Bioprocessing in Future Energy Systems*, Springer International Publishing AG, Switzerland, pp 1-52, ISBN: **9783030144630**
6. Bioprospecting of Microbes for Biohydrogen Production: Current Status and Future Challenges **(2019)** S Kumar, S Sharma, S Thakur, T Mishra, **P Negi**, S Mishra, AEL Hesham, AA Rastegari, N Yadav, AN Yadav, *In: G Molina, VK Gupta, BN Singh, N Gathergood (Eds) Bioprocessing for Biomolecules Production*, John Wiley & Sons- Scientific Publishers, United State, pp 443-472, ISBN: **9781119434320**
7. Structural, Specific Heat and Conduction Mechanism in $Gd_{0.7}Ca_{0.3}MnO_3$ **(2012)** **P Negi**, HM Agrawal and RC Srivastava, *In: V Rajendran, R Yuvakkumar, K Thyagarajah, KE Geckeler (Eds) Application of Nano Materials: Electronics, Energy and Environment*, Bloomsbury Publishing India Pvt. Ltd., pp. 65-70. ISBN: **9789382563358**
8. Raman Study of Cobalt Ferrite Nanoparticles **(2012)** Hemaunt Kumar, RC Srivastava, **Puneet Negi**, HM Agrawal and Anurag Singh, *In: V Rajendran, K Saminathan, P Paramasivam, KE Geckeler (Eds) Nano Materials Synthesis and Characterization*, Bloomsbury Publishing India Pvt. Ltd., pp. 163-168. ISBN: **9789382563365**

Popular Articles

1. **Dr. Puneet Negi** “Origin of the Universe: A Mysterious Story” EU Voice: Annual Magazine of Eternal University, pp. 35-37, Vol: II (2016).
2. **Dr. Puneet Negi**, Dr. Ajra Nath Yadav, Dr. Vinod Kumar “Thanks to Microbial Fuel Cells!” EU Voice: Annual Magazine of Eternal University, pp. 32-34, Vol: II (2016).
3. Ms. Gursimran Kaur, **Dr. Puneet Negi** “Titanium Dioxide (TiO_2): A Globally Demanding Material” EU Voice: Annual Magazine of Eternal University, pp. 23-24, Vol: III (2017).

4. **Dr. Puneet Negi**, Er. Kuldeep Singh “*Scope of Solar Drying System in Himalayan Regions*” EU Voice: Annual Magazine of Eternal University, pp. 38, Vol: IV (2018).
5. Mr. Sandeep Kumar, **Dr. Puneet Negi** “*Design of Solar Water Heating System Using Locally Available Material*” EU Voice: Annual Magazine of Eternal University, pp. 27, Vol: V (2019).
6. **Dr. Puneet Negi**, Anchal Sharma, Shailja, Yogita Verma “*Perovskite Solar Cell: A Promising Photovoltaic Technology*” EU Voice: Annual Magazine of Eternal University, pp. 30-31, Vol: V (2019).
7. **Dr. Puneet Negi**, Dr. Ruhit Jyoti Konwar “*Reduced Graphene Oxide: A highly Desirable Material*” EU Voice: Annual Magazine of Eternal University, (2020).
8. Dr. Ruhit Jyoti Konwar, **Dr. Puneet Negi** “Hydrogen: A Potential Energy Carrier” EU Voice: Annual Magazine of Eternal University, (2020).

Research Communications

1. “*Co-precipitation Preparation of Ternary doped (N-Ce-Cu)/TiO₂ Nanoparticles and Their Characterizations*” Gursimran Kaur, Manpreet Kaur, Aman Mahajan, Rakesh Sharma, Ruhit Jyoti Konwar, **Puneet Negi**; Conference on “National Conference on Functional Materials for Device Applications (NCFMDA)”, at Guru Nanak Dev University Amritsar, Punjab, India during 9-10 March, 2018.
2. “*Synthesis and characterization of Ternary doped (N-Fe-Cu)/TiO₂ nanoparticles for Solar Cell application*” Gursimran Kaur, Manpreet Kaur, Rakesh Sharma, Aman Mahajan, **Puneet Negi**; Conference on “International Conference on Advance in Science & Technology, (ICAST-2018)”, at Rayat Bahra Ropar Campus, Punjab, India during 16-18 March, 2018.
3. “*Study of Nanostructured TiO₂ Synthesized by Two Different Chemical Techniques*” Gursimran Kaur, Manpreet Kaur, **Puneet Negi**, Rakesh Sharma, Ruhit Jyoti Konwar, Aman Mahajan; Conference on “4th National Conference on current advances in physical sciences, (CAPS-2018)”, at Khalsa College Amritsar, Punjab, India during 22 March, 2018.
4. “*Synthesis and Characterization of Ternary Doped (N-Ce-Cu)/TiO₂ Nanoparticles for Solar Cell Application*” Gursimran Kaur, Manpreet Kaur, **Puneet Negi**, Rakesh Sharma, Aman Mahajan; International Symposium on Functional Materials (ISFM-2018) held at Panjab University Chandigarh on April 13-15, 2018.
5. “*Preparation of Cu-N co-doped ZnO nanoparticles via sol-gel method and their application in dye sensitized solar cells*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; 10th National Conference on Chemical and Environmental Sciences: Innovations and Advances-2018 (CES:IA-2018) held at Department of Chemistry, Punjabi University, Patiala on February 15-16, 2018.
6. “*Cu and N co-doped ZnO nanoparticles synthesized using co-precipitation method: Application in dye sensitized solar cells*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; International Conference on Clean Technologies and Sustainable Development organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on February 23-24, 2018 at Chitkara University, H.P.
7. “*Structural, optical and electrical properties of In/N co-doped ZnO nanoparticles via co-precipitation method*” Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh

Sharma; National Conference on Functional Materials for Device Applications (NCFMDA) at Guru Nanak Dev University, Amritsar on March 9-10, 2018.

8. *“Structural, Dielectric and Electrical properties of Eu and N co-doped ZnO Nanoparticles via Co-precipitation Method”* Manpreet Kaur, Gursimran Kaur, Aman Mahajan, **Puneet Negi**, Rakesh Sharma; International Conference on Advance in Science & Technology, (ICAST-2018) held at Rayat Bahra Ropar Campus on March 16-18, 2018.
9. *“Comparative Study of ZnO Nanoparticles Synthesized by Co-precipitation and Sol-gel Method for Dye Sensitized Solar Cell Application”* Manpreet Kaur, Gursimran Kaur, Rakesh Sharma, Aman Mahajan, **Puneet Negi**; International Symposium on Functional Materials (ISFM-2018) held at Panjab University Chandigarh on April 13-15, 2018.
10. *“Synthesis and Structural Modification of Nickel Ferrite by Strontium Doping”* Sweta Sharma, Manpreet Kaur, Gursimran Kaur, Chirag, Manjeet Singh, Shilpa Kumari, Nitish Thakur, Rakesh Sharama, Ruhit Jyoti Konwar, **Puneet Negi**; International Conference on Science and Technology: Trends and Challenges (ICSTTC-2018) held at Gujranwala Guru Nanak Khalsa College, Civil lines, Ludhiana on 16-17 April 2018.
11. *“Effect of Strontium Doping on Crystal Structure of Nanostructured Nickel Ferrite”* Chirag, Manpreet Kaur, Gursimran Kaur, Sweta Sharma, Shilpa Kumari, Manjeet Singh, Nitish Thakur, Rakesh Sharama, Ruhit Jyoti Konwar, **Puneet Negi**; International Conference on Science and Technology: Trends and Challenges (ICSTTC-2018) held at Gujranwala Guru Nanak Khalsa College, Civil lines, Ludhiana on 16-17 April 2018.
12. *“Cesium doped methylammonium lead iodide thin film: a perovskite light absorber for solar cell applications”* Anchal Sharma, Yogita Verma, Shailja, **Puneet Negi**, National conference on “New Insights in Biological and Environmental Sciences (NIBS-2019)” held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019 (NIBES/PP/32).
13. *“Methylammonium Bismuth Iodide Thin Film: A Promising Material for Solar Cell Application”* Yogita Verma, Anchal Sharma, Shailja, **Puneet Negi**, National conference on “New Insights in Biological and Environmental Sciences (NIBS-2019)” held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019 (NIBES/PP/33).
14. *“Importance of Tolerance Factor to Fabricate Perovskite Nano thin-films as a Solar Radiation Absorber”* Shailja, **Puneet Negi**, Anchal Sharma, Yogita Verma, National conference on “New Insights in Biological and Environmental Sciences (NIBS-2019)” held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019 (NIBES/PP/34).
15. *“Strain induced Magnetic Properties of Multiferroic GdMnO₃ thin film fabricated by Pulsed Laser Deposition”* **P. Negi**, H. Kumar, H.M. Agrawal, R.C. Srivastava and K. Asokan, **Abstract Book 12th Joint MMM-Intermag**, Chicago, Illinois, **USA**, 643-644 (2013).
16. *“200 MeV Ag Ion Irradiation Effect on Multiferroic GdMnO₃ Thin Films”* **Puneet Negi**, Gagan Dixit, H. M. Agarwal, R. C. Srivastava and K. Asokan, **IUAC Annual Report 2012**.
17. *“100 MeV O⁷⁺ Ion Irradiation Induced Effect on Multiferroic GdMnO₃ Nanoparticles”* **Puneet Negi**, H. M. Agarwal, R. C. Srivastava and K. Asokan, **IUAC Annual Report 2013**.

CONFERENCES

(a) International (Abroad)

1. Presented a research paper entitled "*Study of Multiferroic GdMnO₃ Thin Film: An Exciting Magnetic Behavior*" in the **"XII International Conference on Nanostructured Materials (NANO-2014)"** organized by Lomonosov Moscow State University at **Moscow, Russian Federation** during July 13 – 18, 2014.

[I am grateful to DST/SERB for selecting me as a Young Scientist to participate in the Conference under the International Travel Support scheme].

2. Presented a research paper entitled "*Structural, Optical and Magnetic Properties of Multiferroic GdMnO₃ Nanoparticles*" in **3rd International Conference on Superconductivity and Magnetism (ICSM) -2012** organized by **Ankara University** at Kumburgaz, Istanbul-Turkey, 29 April-04 May, 2012.

(b) International (within country)

3. Presented a paper entitled "*Tuning of structural and optical properties by sintering of multiferroic GdMnO₃ precursor*" in the **International Conference on Technologically advanced Materials and Asian Meeting on Ferroelectrics (ICTAM-AMF10)**, at **University of Delhi** during November 7-11, 2016.
4. Presented a paper entitled "*Dye Sensitized Solar Cell: An Emerging Photovoltaic*" during 2nd International conference on **"Innovative Research in Engineering, Science and Technology (IREST-2017)"**, at Eternal University, Baru Sahib organized by ACET, Eternal University, Baru Sahib & Sponsored by DST (New Delhi) in association with Vigyan Prasar (Noida) and Himachal Pradesh Patent Information Centre (HPPIC), Shimla), India during April 07 -08, 2017.
5. Presented a research paper entitled "*Study of Multiferroic GdMnO₃ Thin Film Fabricated by Pulsed Laser Deposition Technique*" in the **"2nd International Conference on Advanced Functional Materials (ICAFM-2014)"** organized by CSIR-National Institute for Interdisciplinary Science and Technology (NIIST) Council of Scientific and Industrial Research at Thiruvananthapuram, India during 19-21 February 2014.
6. Presented a paper entitled as "*Magnetic properties of diffused multilayered film of multiferroic GdMnO₃*" in **International conference on Magnetic Materials and Applications (MagMA-2013)** at IIT, Guwahati 05-07 December, 2013.
7. Presented a paper entitled as "*Nanostructured Multiferroic GdMnO₃: Optimization of Synthesizing Conditions and its Characteristics*" in **International Conference on Nanoscience and Nanotechnology (ICNN-2013)** at BBAU, Lucknow, 18-20 Nov. 2013.
8. Presented a paper entitled "*Magnetic study of multiferroic GdMnO₃ thin film irradiated by 200 MeV Ag⁺¹⁵ ion beam*" in **Swift Heavy Ions in Materials Engineering and Characterization (SHIMEC- 2012)** at IUAC, New Delhi, October 9-12, 2012.
9. Presented a research paper entitled "*Structural and Electronic Transport Properties of Gd_{0.7}Ca_{0.3}MnO₃ Nanoparticles*" in **"International conference on Nanomaterials and Nano technology (ICNANO)"**, 18- 21 December 2011 at Conference Centre, University of Delhi, Delhi, India.
10. Presented a paper entitled as "*Structural, specific heat and conduction mechanism in Gd_{0.7}Ca_{0.3}MnO₃*" in **6th International Symposium on Macro and supramolecular Architectures and Materials (MAM-12) Special theme: Nano Systems & Applications** at Le

Meridien, Coimbatore, organised by College for Nanoscience& Technology, K. S. Rangasamy college of Technology, Tiruchengode, Namakkal, Tamilnadu, India, 21-25 December, 2012.

(c) National

11. Presented a research paper entitled "*Fabrication of Low Cost Solar Drying System Using Locally Available Materials for Preserving Agriculture and Horticulture Commodities*" in a multi-track national conference (SLIETCON-2019) organized by **Sant Longowal Institute of Engineering and Technology, Longowal** during March 1- 2, 2019 at **National Institute of Technical Teachers Training and Research, Chandigarh**.
12. Presented a paper entitled "*Design of Low Cost Mixed Solar Drying System for Horticultural and Agricultural Commodities of Himachal Pradesh*" in **Rural Innovators Startup Conclave-2018 (RISC-2018) at National Institute of Rural Development and Panchayati Raj (NIRD&PR), Rajendra nagar, Hyderabad** during august 30th – 31st, 2018.
13. Presented a paper entitled "*Finding of weak ferromagnetism at room temperature in granular GdMnO₃ film*" in a symposium on "**Science, Technology and Entrepreneurship for Human Welfare in the Himalayan Region**", the 86th Annual Session of the National Academy of Sciences, India at **Uttarakhand State Council for Science & Technology (UCOST) Dehradun**, on December 2- 4, 2016.
14. Presented a paper entitled "*Sintering effect on structural and optical behaviour of Multiferroic GdMnO₃*" in a 5th **National Conference on "Chemical Sciences: Emerging Scenario and global challenges"** at **Arya P. G. College Panipat, Haryana** on 26 March, 2016.
15. Presented a paper entitled "*Magnetic Anomalies in Specific Heat and Dielectric Properties of Multiferroic GdMnO₃*" in 57th **DAE, Solid State Physics Symposium (SSPS)** at IIT, Bombay, 03-07 December 2012.
16. Presented a research paper entitled "*Fabrication of Multiferroic GdMnO₃ Thin Film by Pulsed Laser Deposition Technique*" in "**Indian Vacuum Society Symposium on Thin films: Science & Technology (TFST-2011)**", 9-12 November 2011 at BARC, Trombay, Mumbai.

(d) State

17. Presented a paper entitled "*Performance Evaluation of Flat Plate Collector Based Solar Water Heating System using Pine Needles as Insulating Material*" under the theme "**Chemical Sciences, Earth Sciences & Renewable Energy**" in 3rd **H.P. Science Congress organized by Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE)** held at **IIT, Mandi** during 22-23rd October, 2018.
18. Presented a paper entitled "*Weak Ferromagnetism at Room Temperature in Granular GdMnO₃ Film*" under the theme "**Physical Sciences, Material Sciences and Nano Technology**" in 2nd **H.P. Science Congress organized by Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE)** held in the **Hotel Peterhoff, Shimla** during 20-21st November, 2017.
19. Presented a research paper entitled "*Colossal Magnetoresistance Perovskite Manganites: A New Approach*" in **6th Uttarakhand State Science & Technology Congress-2011**, 14-16 November, 2011 at S. S. J. Campus, Kumaun University, Almora.

20. Presented a research paper entitled "*Structural and Optical Properties of Multiferroic GdMnO₃ Nanoparticles*" in **5th Uttarakhand State Science & Technology Congress-2010**, 10-12 November, 2010 at **Doon University, Dehradun**.

FACULTY DEVELOPMENT PROGRAM

1. Participated and completed **NEP-2020 Orientation and Sensitization Programme** under **Malaviya Mission Teacher Training Program (MM-TTP) of UGC** organized by **UGC-MMTTC (GAD-MMTTC)**, Shri Guru Tegh Bahadur Khalsa College, University of Delhi from July 16 to July 26, 2024.
2. Participated in the **Faculty Development Program (FDP) on Density Functional Theory Modelling of Materials (DFT-M)** organized by the Centre for Advanced Computational Studies, Delhi from **26th November –2nd December 2023** via Online Mode. FDP program 7 Interactive Sessions by DR. **NIKHIL AGGARWAL** on Density Functional Theory Modelling of Materials at Nanoscale using Quantum Espresso and Burai Software applications.
3. Participated in the **One Week Online Faculty Development Programme on "Advancement in Materials Science & Nanotechnology"** conducted by Department of Physics Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore from 28th November to 02nd December 2022.
4. Participated in the **14-days Online Faculty Development Programme on "MATERIALS SCIENCE & NANOTECHNOLOGY (FDP-MSNT-2020)"** organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai-48, during the period 03rd August to 17th August 2020.
5. Attended a "**Five days faculty development program on R-Programming**" during June 15-19, 2020 organized by Uttarakhand Science Education and Research Centre, Department of Information & Science Technology, Govt. Of Uttarakhand with IIT Mumbai, Spoken Tutorial & School of Computer Science & IT, Uttarakhand Open University, Haldwani.
6. Participated and successfully completed **3-days "Faculty Development Program for Student Induction (FDP-SI)"** during November 21-23, 2019 at Eternal University, Baru Sahib, Distt Sirmour, organized by All India Council for Technical Education (AICTE).

REFRESHER COURSES/ TRAINING PROGRAM/ WORKSHOPS

1. Participated in IP Awareness/Training Program under National Intellectual Property Awareness Mission on April 15, 2024 organized by Intellectual Property Office India.
2. Participated in the two days "**3rd National Level Workshop-Transformation through NAAC Accreditation Process**" for Higher Educational Institutions and Health Science Institutions held on October 30-31, 2023 through online mode conducted by "Institute for Academic Excellence (IAE), Hyderabad".
3. Received certificate for completing the **1-day Microsoft using AI Tools** Workshop conducted on September 24, 2023 awarded by be10X.
4. Participated in the **NeW IPR 2023 e-Workshop** organized by Innovative Technology Enabling Centre (InTEC), CSIRIMMT, Bhubaneswar during June 12-17, 2023.

5. Participated in IP Awareness/Training program under “**National Intellectual Property Awareness Mission**” on February 04, 2022 organized by Intellectual Property Office, India.
6. Participated in e-workshop on “**Materials & their Characterization**” organized by Department of Physics, Maharaja Agrasen University from June 14-19, 2021.
7. Attended AICTE sponsored **One Week Faculty Training Program** on “**Recent Trends in Physics of Engineering Materials**” organized by Department of Physics, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Haryana from 7th to 12th June 2021.
8. Participated in a **Python Workshop** organized by MSME-Technology Centre, Kaniya, Ramnagar on July 27, 2020.
9. Attended a National workshop on “**Innovative techniques of characterization, optimization & data analysis (ITCOD)**”, Chitkara University, Rajpura, Punjab, India, July 8-12, 2019.
10. Attended the one day workshop on “**Intellectual Property Rights: Issues and Challenges**” at Eternal University, Baru Sahib on March 28, 2019 organized by IPR Cell, Eternal University, Baru Sahib in association with HP Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh.
11. Successfully completed an online training course on “**MATLAB Onramp**” on July 23, 2020 certified by Math Works training services.
12. Participated in “**Two-Week Refresher Course on Experimental Physics**” from June 20 to July 05, 2017 in Department of Physics at G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakh and organized by IASc, INSC & NASI.
13. Attended the one day workshop on “**Intellectual Property Rights: Issues and Challenges (IPRIC-2017)**” at Eternal University, Baru Sahib on March 14, 2017 organized by IPR Cell, Eternal University, Baru Sahib in association with HP Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh.
14. Participated in an awareness workshop on “**The facilities of UGC-DAE Consortium for Scientific Research**”, jointly organised by the Department of Physics, D. S. B. Campus, Kumaun University (Nainital) and UGC-DAE-CSR centre (Indore) held at the Department of Physics (UGC Centre of advanced study) D. S. B. Campus, Kumaun University (Nainital), during 05-07 April 2016.
15. Participated in “**Two-Week Refresher Course on Experimental Physics**” from April 14- 29, 2015 at IASc, Bangalore organized by IASc, INSC & NASI.
16. Participated in the National Workshop on “**Scientific / Research Paper writing**” organized by the National Academy of Sciences, India held from April 05-07, 2013 at Mohanlal Sukhadia University, Udaipur, Rajasthan.
17. Participated in the workshop on “**Radiation Science and Applications**” at Christ Church College, Kanpur organized by **UGC-DAE-CSR Centre, Kolkata** held during the period of February 10-11, 2012.
18. Participated in an orientation workshop on “**Thin Film Magnetism**” at **UGC-DAE-CSR Centre, Indore** held during the period of March 14-16, 2012.

19. Attended National School cum workshop on **“Magnetic Phase Transitions and Transformations”** organized by Department of physics, Jadavpur University, Kolkata & **UGC-DAE Consortium for Scientific Research, Kolkata Centre at Jadavpur University Main Campus, Jadavpur, Kolkata**; from August 3rd to 9th, 2011.
20. Participated in the one-day workshop on **“Advanced Materials and Nanotechnology”**, held in **Jaypee Institute of Information Technology**, NOIDA on 21st November, 2009.

LECTURE/SEMINAR/ WEBINAR

1. Participating in an International Webinar on Energy Traps in Atomic Nuclei by Prof. P.M. Walker, University of Surrey, UK on June 05, 2024 organised by Department of Physics, Akal University, Talwandi Sabo, Bathinda, Punjab.
2. Participated in an International Webinar on Nuclear Shell Model by Prof. P. Van Isacker, GANIL, France on May 02, 2024 organised by Department of Physics, Akal University, Talwandi Sabo, Bathinda, Punjab.
3. Attended an online International Seminar on **“Graphene and Carbon Nanotubes (CNTs)-based Sensor Technology”** (Electronics Research and Innovation) organized by JB Institute of Technology, Dehradun (Uttarakhand) India on September 08, 2023.
4. Participated in one day seminar on **“C.V. Raman and His Contributions in Science”** organized by Department of Physics, School of Sciences, Uttarakhand Open University, Haldwani, on the occasion of **National Science Day** on February 28, 2023.
5. Participated in a conference as a **Nodal Officer for Zero Carbon University/ Energy Club and Green Energy Committee** organized by HP-PERC, Himachal Pradesh at Bahra University, Solan, H.P. held on 05-07-2023.
6. Participated in the Webinar on **“Layered Mxenes Based 2D Materials”** delivered by Dr. Sunil Kumar of Department of Nanotechnology and Advanced Materials Engineering, Sejong University, Seoul, South Korea, organized by the Department of Physics, School of Basic & Applied Sciences on December 14, 2022.
7. Attended the Webinar on "Challenges faced in NAAC Accreditation & Live Ki-NAAC Software product Demo" held on 30th July 2022 by Kramah Software Pvt. Ltd.
8. Participated in the **"Vyakriti" Webinar on Experimental Techniques and Related Analysis Methods in Condensed Matter Physics** held online on 9th & 10th July, 2021, jointly organized by; Laboratory of Functional Oxides, Department of Physics, Saurashtra University, Rajkot & Gujarat Council on Science & Technology (GUJCOST), Department of Science & Technology (DST), Government of Gujarat, Gandhinagar.
9. Attended a **lecture** on **“The Future of Batteries”** on June 18, 2020 presented by Kelsey Hatzell, Yifei Mo, and Nella Vargas-Barbosa through BrightTALK.
10. Attended the **India First Leadership Talk webinar** broadcasted on May 02, 2020 organized by MHRD's Innovation Cell.
11. Attended a **webinar** on **“Raman Spectroscopy and its applications”** delivered by Dr. Vasant Sathe on April 28, 2020 organized by Amity University.

12. Participated in the **“World’s Largest Drug Awareness Webinar”** with 1.05 Lakh views on YouTube and Facebook (Live) on June 26, 2020 organized by Kalgidhar Society, Baru Sahib (H.P.).
13. Attended a **lecture** on **“Homeopathy and Agro-homeopathy at a Glance: Facts and Figures”** delivered by Dr. Lakhwinder S Dhaliwal, Ph.D., DHMHS HOM(ON) in the university auditorium on February 20, 2020.
14. Attended special session on **“Intellectual Property Management for Research & Development”** at Eternal University, Baru Sahib organized by IPR Cell, Eternal University, Baru Sahib in association with Himachal Pradesh Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh during 2nd International Conference on Innovative Research in Engineering, Science and Technology (IREST-2017) held in Eternal University, Baru Sahib, H. P. on April 07 -08, 2017.
15. Attended the one day seminar on **“Renewable Energy: Sustaining a Green Future”** organized by the State Council for Science, Technology & Environment, Himachal Pradesh and the Energy Resource Institute (TERI), New Delhi on 23rd March, 2017 at Hotel Holiday Home, Shimla.

SUMMER/ WINTER SCHOOLS/ PH.D. TEACHING PROGRAM/ WEBINAR SERIES

1. Attended the **“Webinar Series on Conceptual and Applied”**, jointly organized by department of Physics, School of Science, RK University and Department of Nanoscience& Advanced Material, Saurashtra University, Rajkot during May 5- 8, 2020.
2. Attended **3rd DST-SERC Summer School** on **“Solid State and Materials Chemistry”** held in **SSCU, Indian Institute of Science (IISc) Bangalore** from June 17 to July 07, 2010.
3. Participated in the First **Winter School** on **“Experimental Condensed Matter Physics”** from March 05- 20, 2010, held in **Department of Physics, Banaras Hindu University, Varanasi. Ph.D. Teaching Program, Advanced Lecture Series**
4. Attended **Ph.D. Teaching Program, Advanced Lecture Series**, semester- II, Module 2.4: **Cryogenics and Superconductivity** at **IUAC, New Delhi** from March 30 to April 21, 2010.

ONLINE COURSES/ SURVEYS

1. Successfully completed online course entitled **“Communication Skill”** offered by TCSiON, Digital Learning Hub, during April 28-29, 2020.
2. Successfully completed online course entitled **“Presentation Skill”** offered by TCSiON, Digital Learning Hub, during April 27- May 06, 2020.
3. Successfully completed online course entitled **“Culture and E-mail Writing”** offered by TCSiON, Digital Learning Hub, on June 19, 2020.
4. Successfully completed online course entitled **“Interview Skills”** offered by TCSiON, Digital Learning Hub, on May 08- 11, 2020.

5. A record of achievement was received on “**Standard precautions: Environmental cleaning & disinfection**” from World Health Organization under Health Emergencies Programme on May 30, 2020.
6. A record of achievement was received on “**Standard precautions: Hand Hygiene**” from World Health Organization under Health Emergencies Programme on May 31, 2020.
7. Received a confirmation of participation on “**COVID-19: How to put on and remove personal protective equipment (PPE)**” from World Health Organization under Health Emergencies Programme on May 30, 2020.
8. Successfully completed a survey on “**Knowledge, Attitude and Practice regarding COVID-19**” on 23 May 2020.
9. Successfully completed a short term course on “**Research and Development in Composite Materials (RDCM-2020)**” jointly organized by Department of Mechanical Engineering and Department of Physics, J.C. Bose University of Science and Technology, YMCA during July 27-31, 2020.

ORGANIZED CONFERENCES/WORKSHOPS

- ✓ Organized International Conference as Organizing Secretary on Pathways **To Progress: The Strategic Role of Research & Innovation in India's Socio-Economic Development-2025 [P2P:TSRRISED-2025]** during (April 05-06, 2025) at Eternal University, Baru Sahib.
- ✓ Organized a **Hands-on Workshop on Optics and Modern Physics Experiments (April 12-14, 2024)** Department of Physics, ACBS, Eternal University, Baru Sahib in Association with Laboratory Instrument Co. (Estd. 1961), Ambala Cantt.
- ✓ Organized a **Lecture Series on “Basic Electronics for Physicists”** jointly organized by Department of Physics, Akal College of Basic Sciences, Eternal University, Baru Sahib and Department of Physics, Akal University, Talwandi Sabo during April 27- June 01, 2024. Dr. Virendra Singh, Assistant Professor, Department of Physics, CBSH, G.B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand has participated as the Resource Person (Invited Speaker) in a Lecture Series.
- ✓ **Coordinated the Green, Environment and Energy Audits of Eternal University conducted on May 29, 2023.**
- ✓ **Convener of the Short Term Training Programme on "Nanomaterials Synthesis and Characterization Techniques" [STTP- NSCT, March 2023]** organized by Department of Physics, Akal College of Basic Sciences, Eternal University, Baru Sahib from March 24, 2023 to March 26, 2023.
- ✓ **Member of organizing committee** of National conference on “**New Insights in Biological and Environmental Sciences (NIBS-2019)**” held at Eternal University, Baru Sahib, Himachal Pradesh from May 24-25, 2019.
- ✓ **Member of organizing committee** of 2nd International Conference on “**Innovative Research in Engineering, Science and Technology (IREST-2017)**” held in Eternal University, Baru Sahib, H. P. on 07- 08 April, 2017.

- ✓ **Organizing committee member** for the event of "Slogan and Poster Competition" under the theme '**My contribution towards making India Clean**' in the Swachhata Pakhawada-2017 during September 1-15, 2017 at Eternal University, Baru-Sahib (H.P.).
- ✓ **Organizing committee member** and **event coordinator** for the event of "Slogan and Poster Competition" under the theme '**My contribution towards making India Clean**' in the Swachhata Pakhawada-2018 during May 1-15, 2018 at Eternal University, Baru-Sahib (H.P.).
- ✓ **Co-ordination Committee member** of **Corporate Social Responsibility (CSR) Conference** held on September 22-23, 2018 at Eternal University Baru Sahib.
- ✓ **Organizing committee member** of the one day workshop on "**Intellectual Property Rights: Issues and Challenges**" at Eternal University, Baru Sahib on March 28, 2019 organized by IPR Cell, Eternal University, Baru Sahib in association with HP Patent Information Centre (HPPIC), State Council for Science, Technology & Environment (SCST&E), Shimla, Himachal Pradesh.
- ✓ **Organizing committee member** in the National Conference on "**Healthcare in India: Need for Paradigm shift**" on August 31-September 01, 2019 organized by Eternal University, Baru Sahib (H.P.) in association with Helpage India and International Institute of Health Management Research (IIHMR), Delhi.
- ✓ **Organizing committee member** in the one day Seminar on "**Importance of Intellectual Property Rights**" at Eternal University, Baru Sahib on November 30, 2019 organized by IPR Cell, Eternal University, Baru Sahib in association with PHD Chamber of Commerce & Industries Himachal Pradesh Chapter.
- ✓ **Organizing committee member** in 21st INDO-US Flow Cytometry Workshop "**Basics of Flow Cytometry and its Applications in Plant Biology**" Jointly organized by Live Education Task Force, International Society for Advancement of Cytometry (LETF-ISAC), Trust for Education and Training in Cytometry (TETC) & Eternal University at Eternal University, Baru Sahib, Himachal Pradesh February 6- 7, 2020, Via Rajghar, Distt.- Sirmour, Himachal Pradesh-173101.
- ✓ **Organized a hands-on workshop-cum-training program** on February 23, 2020 (Sunday) at Gram Panchayat: Mattal Bakhog, Block: Rajgarh, District: Sirmour (H.P.) under the HIMCOSTE, Shimla funded project entitled "**Design of low cost mixed solar drying system for horticultural and agricultural commodities of Himachal Pradesh**" (Project Code: SCSTE / F(8)-1/2017-5075-76) as being **Principal Investigator** of the Project.
- ✓ **Faculty Coordinator** in National Conference "**Advanced in Food Science and Technology-2017**" on 24-25 March 2017 held at Eternal University, Baru Sahib, Sirmour (H.P.).

Administrative Experience

- ✓ **HoD**, Physics, Akal College of Basic Sciences, Eternal University, Baru Sahib, (H.P.)
- ✓ **Convener, Research Program, Policy Development Committee, Research and Development Cell (RDC)**, Eternal University, Baru Sahib, (H.P.)
- ✓ **Member Secretary**, committee constituted for Sponsored Research and Industrial Consultancy (SRIC), Eternal University, Baru Sahib, (H.P.)
- ✓ **Member, Advisory and Steering Committee** for submission of SSR for NAAC accreditation.
- ✓ **Chairman**, Committee constituted for *Criterion-I (Curricular Aspects)* of SSR for submission of SSR.
- ✓ **Member Secretary**, IQAC, EU
- ✓ **Member** of **AQAR** compilation committee, EU

- ✓ **Member** of Institution's Innovation Council, EU
- ✓ **Member, Board of Studies** of Akal College of Basic Sciences.
- ✓ **Chairman, Academic Committee**, Department of Physics.
- ✓ **Chairperson, Purchase Committee**, Department of Physics.
- ✓ **Laboratory Supervisor**, Materials Science & Nanotechnology Research Laboratory, Department of Physics.
- ✓ **Centre Superintendent**, End Semester Examinations, (December-2023) and (June-2024).
- ✓ **Deputy Examination Coordinator** in end semester examination June/July 2016 and December 2016 of Eternal University, Bar Sahib, India.
- ✓ **EU-Quiz Coordinator**, Eternal University Baru Sahib
- ✓ **Admission Coordinator** of Akal College of Basic Sciences, Eternal University, Bar Sahib, India.
- ✓ **Class In-Charge** of B.Sc. (2016-17) Batch of Akal College Basic Sciences, Eternal University Baru Sahib (H.P.).
- ✓ **Usher** in 5th, 6th and 7th convocation of Eternal University, Baru Sahib held on December 2, 2017, November 24, 2018 and November 23, 2019 respectively.
- ✓ **Active team member and (Mentor for focused area: Nanomaterials and Renewable Energy)** for the development of **proposed Atal Community Innovation Centre, Eternal University Baru Sahib** under Atal Innovation Mission, Niti Aayog, GOI.
- ✓ **Active member of Centralized Time Table Committee** for the smooth functioning of Academic session 2019-20 (Odd Semester).
- ✓ **Member Secretary of Centralized Time Table Committee** for the smooth functioning of Academic session 2019-20 (Even Semester).

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- ✓ Life time Member [Id: 4538] of the **Solar Energy Society of India (SESI)**.
- ✓ Life time Member [Id: 10675-L6868] of the **Indian Association of Physics Teachers (IAPT)**.
- ✓ Life time Member [Id: L29145] of **The Indian Science Congress Association (ISCA)**.
- ✓ Life time Member [Id: LMB2772] of the **Material Research Society of India (MRSI)**.
- ✓ Life time Member [Id: LM1736] of the **Electron Microscope Society of India (EMSI)**.
- ✓ Sessional Member of **The National Academy of Science, India (NASI)** in year 2016.

Ph.D. & M.Sc. STUDENTS GUIDED/ GUIDING:

S. No.	Name	Thesis Title	Date of Final Viva-Voce
DEGREE AWARDED			
Ph.D. Students			
1.	Ms. Gagandeep Kaur (BS20PSPHY002)	The structural, micro-structural, optical and electrical studies on doped titanium dioxide nanostructures for energy applications	17-12-2024
2.	Ms. Himani (BS17PSPHY001)	Study of structural and electrical properties of barium titanate based lead-free ferroelectric composite materials	12-02-2022
3.	Ms. Gursimran Kaur (BS15PSP001)	Synthesis and characterization of tri-doped titanium dioxide nanostructures for dye sensitized solar cell application	14-09-2019
M.Sc. Students			
1.	Ms. Anchal Thakur (BS23MPHY001)	Investigations on thermally modified electrical behavior of nitrogen and cobalt ions doped anatase titanium dioxide	29-08-2025

2.	Ms. Nisha Devi (BS21MPHY001)	Study of carbon doped nanostructured titanium dioxide for solar energy applications	19-10-2023
3.	Ms. Anjana Sharma (BS19MSPHY001)	Study of structural, optical, electrical and anti-microbial properties of TiO ₂ synthesized by sol-gel technique	09-02-2022
4.	Ms. Diksha Chauhan (BS19MSPHY003)	Performance evaluation of a hybrid Solar drying system fabricated from locally available materials	09-02-2022
5.	Ms. Anchal Sharma (BS18MSPHY002)	Study the doping effect of metal and non metal ions in nanostructured TiO ₂ for photovoltaic application	29-12-2020
6.	Ms. Shailja (BS18MSPHY005)	Synthesis and characterization of titanium dioxide and its derivatives for photovoltaic application	08-02-2021
7.	Ms. Yogita Verma (BS18MSPHY008)	Study the influence of transition metal ions doping in nanostructured TiO ₂ for photovoltaic application	02-01-2021
8.	Ms. Sweta Sharma (BS16MSPHY005)	Study the effect of strontium doping on nickel site in nanostructured nickel ferrite	28-09-2018
9.	Mr. Chirag (BS16MSPHY001)	The influence of strontium substitution on nickel site in nanostructured nickel ferrite	28-09-2018
10.	Mr. Arun (BS15MSP002)	The influence of magnesium substitution on nickel site in nanostructured nickel ferrite	21-09-2017
11.	Ms. Roman Ayoub (BS15MSP004)	Study the effect of aluminium doping on nickel site in nanostructured nickel ferrite	21-09-2017
UNDER SUPERVISION			
Ph.D. Student			
1.	Ms. Priyanka Rani (CBS-24-035)	Structural, micro-structural, optical, electrical and morphological studies of bio-waste derived carbon based titanium dioxide nanoparticles for energy applications (Tentative)	(Synopsis Writing)
2.	Ms. Anchal Thakur (CBS-25-031)	Synthesis and characterization of bio-waste derived carbon based metal oxide nanostructures for energy applications (Tentative)	(Synopsis Writing)
M.Sc. Students			
1.	Ms. Srishti Chauhan (CBS-25-022)	Investigation of the structural, optical and electrical properties of corn cob derived activated carbon	(Synopsis Approved)

Declaration: I do hereby confirm that the information given in this resume is true and correct to the best of my knowledge.

Date: 20/07/2026

Place: Baru Sahib



(Puneet Negi)