

Curriculum Vitae

Full Name	Dr. Dilip Kumar Meena			
Designation	Assistant Professor			
Department	Physics			
Campus	SRT Campus, Tehri			
Mobile	+91-8745889213 +91-6377427768			
Email	dilip.physics1212@gmail.com dilipmeena@hnbgu.ac.in			
Education Qualification	B.Sc. (Rajasthan University) M.Sc. (IIT Ropar) Ph.D. (IISc Bangalore)			
Teaching Experience	04 Year	Research Experience	08 Years	
Areas of Interest/ Specialization				
1. Experimental Condensed Matter Physics 2. Thermoelectric Materials				
Research Supervision (No. of Ph.D. Degree Awarded/ Registered)				
Awarded: 00				
Registered: 01				
Research Projects/ MoU undertaken				
None				
Administrative Experience				
1. Assistant Proctor , H.N.B. Garhwal University, SRT Campus, Badshahi Thaul, Tehri Garhwal, for the academic year 2023-24 and 2025-26. 2. Member , Board of Study, Department of Physics, H.N.B. Garhwal University 3. Member , Waste Management Policy Committee, H.N.B. Garhwal University, Since September, 2025.				
Conference/Symposium/Workshop Attended during last five years.				
International				
1. Given an Oral Presentation at a Conference on “Effect of Melt Solidification Rate on Structural and Thermoelectric Transport Properties of Sb ₂ Te ₃ /Te Nanocomposite” at the International Conference on Radiation Awareness and Detection in Natural Environment , March 02-04, 2023 . 2. Given an Oral Presentation on “Effect of Melt Solidification Rate on Structural and Thermoelectric Transport Properties of Sb ₂ Te ₃ /Te Nanocomposite” at the International Virtual Conference on Thermoelectric , July 20-22, 2021 .				

National

1. Given an **Oral Presentation** at a Conference on “p-type to n-type conduction reversal and thermal conductivity reduction in polymer mixed Sb₂Te₃/Te Nanocomposite” at the 5th **National Conference on Radiation Awareness and Detection in Natural Environment (REDNET-V)**, Oct. 07-09, 2024.

Conference/Symposium/Workshop Organized during last five years

1. As **Organizing Secretary** Successfully **organized a seminar** entitled “**Role of Women Scientists in Building a Viksit Bharat**” from 27-28 Feb. 2026.
2. As **Organizing Secretary** Successfully **organized a seminar** entitled “**Empowering Indian Youth for Global Leadership in Science & Innovation for Viksit Bharat**” from 27-28 Feb. 2025.
3. As **Organizing Secretary** Successfully **organized a seminar** entitled “**Indigenous Technologies or Vikshit Bharat**” from 27-28 Feb. 2024.
4. As **Organizing Secretary** Successfully **organized a seminar** entitled “**Role of Scientific Temper of Society Towards Sustainable Development**” from 28 Feb. 2023 to 1 March 2023.

Research Publications 2021 Onwards:

Journals

1. Sochannao Machinao, **Dilip Kumar Meena**, Neeraja Athulya, Rapaka S Chandra Bose, Saurabh Singh, Tsunehiro Takeuchi, Tamanna Kumari, Jasa Ram, Karuppannan Ramesh, Dopant size governs valence-band-edge splitting and hierarchical phonon scattering in Cu-and Ag-doped p-type ZnTe, **Journal of Physics D: Applied Physics**, 59 (2026) 365501.
2. Rajesh Nagiri, Swathi Sudireddy, Varun Thottathil Sasi, Sochannao Machinao, Vijayeta Pal, Anchara Veettil Anoop, **Dilip Kumar Meena**, Srikanth Ponnada, Ramesh Karuppannan, Subash Chandra Bose Rapaka, Semiconducting Bi₂Te₃–Semimetallic Sb Flexible Thermoelectric Generator Achieving High Power Density for Wearable Energy Harvesting, **ACS Applied Energy Materials**, 8 (2025) 17187-17191.
3. Ritushree Shaily, Abhishek Prasad, Kuldeep Kumar, **Dilip Kumar Meena**, Structural transformation of MnTiO₃ with manganese dioxide and titanium dioxide influenced by solid-state calcination kinetics, **Next Materials** 9 (2025) 101008.
4. **Dilip Kumar Meena**, Rapaka S. C. Bose, **A. M. Umarji**, D Arvindha Babu, Polymer-mixed Sb₂Te₃/Te nanocomposites exhibiting p-type to n-type conduction reversal and thermal conductivity reduction, **Material Research Express** 10 (2023) 074001.
5. **Dilip Kumar Meena**, Rapaka S C Bose, K. Ramesh, Melt Solidification Rate-Dependent Structural and Thermoelectric Properties of Sb₂Te₃/Te Nanocomposites, **Journal of Alloys and Compounds** 902 (2022) 163767.
6. **Dilip Kumar Meena**, Rapaka S C Bose, S. Vinoth, K. Annapurna, K. Ramesh, Impact of Melt Solidification Rate on Structural and Thermoelectric Properties of

n-type Bi₂Te₃ Alloy, *Applied Physics A* (2022) 128:528.

7. Rapaka S C Bose, **Dilip K M**, Paolo Mele, and K Ramesh, Role of grain alignment and oxide impurity in thermoelectric properties of textured *n*-type Bi–Te–Se alloy, *J. Phys. D: Appl. Phys.* 54 (2021) 235503.
8. K. Deva Arun Kumar, **Dilip K. Meena**, Rapaka S.C. Bose, Ramcharan Meena, Prashantha Murahari, Paolo Mele, K. Ramesh, Optical and thermoelectric properties of Sb₂Te₃/ZnTe nanostructured composites, *Journal of Alloys and Compounds* 865 (2021) 158621.

Books

1. **Dilip Kumar Meena**, K. Deva Arun Kumar, **Low Thermal Conductivity of n-Type ZnTe Thermoelectric Alloy Prepared by Facile Top-Down Process**, ISBN: 978-1-80433-962-6 "Advances in Applied sciences (*Rubicon Publication*)" reference No. RC 23-22 (2023).