

Curriculum Vitae



Personal Information:

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ACADEMIC QUALIFICATION:

Degree	Specialization	Year of passing	Institute/University
Ph.D	Physics/Material Science	(Sept.2015)	CSIR-National Physical Laboratory, New Delhi/ Panjab University Chandigarh
M.Sc.	Physics	2007	C.C.S.University Campus, Meerut
B.Sc.	Physics, Mathematics, Geology	2005	C.C.S.University, Meerut

ACHIEVEMENTS:

- Qualified **JRF-CSIR June, 2008** in **Physical Sciences** called for **SPM**.
- Qualified **GATE 2008**.

Teaching Experience:

- Worked as an Assistant Professor in A.R.S.D College, Delhi University for one year Jan-Dec (2015).

- Worked as an Assistant Professor in S.G.T.B.K. College, Delhi University for four months Jan-May (2016).
- Joined Physics Department, University of Lucknow, Lucknow in 2016 as Assistant Professor.

Research Experience:

1. Growth, preparation and characterization of bulk materials and nano structured thin films of thermoelectric materials and investigating their structural, electrical and thermoelectric properties in order to ascertain their application for devices.
2. Characterization of new and advanced nano materials and nano composites in the form of thin films, powders, composites materials, using, XRD, SEM, EDAX, TEM and HRTEM, and other sophisticated tools used for transport properties.
3. Development of high accuracy equipments to measure the thermal properties of thermoelectric materials and semiconductors.

List of publications

1. F Ahmad, S Singh, **SK Pundir**, R Kumar, K Kandpal, P Kumar “Effect of Doping and Annealing on Thermoelectric Properties of Bismuth Telluride Thin Films” **Journal of Electronic Materials**, 1-8 (2020). DOI: 10.1007/s11664-020-08126-6. ISSN: 0361-5235
2. **SK Pundir**, S Singh, P Jain, “Spark Plasma Sintering Effect on Thermoelectric Properties of Nanostructured Bismuth Telluride Synthesized by High Energy Ball Milling” **Journal of nanoscience and nanotechnology.**, 20 (6), 3902-3908 (2020)
3. P Jain, S Singh, **SK Pundir**, “Synthesis of Highly Transparent Indium Tin Oxide Thin Films Using Vacuum Evaporation Technique” **Journal of nanoscience and nanotechnology** 20 (6), 3845-3853 (2020)
4. Sukhvir Singh, **SK Pundir**, Parveen Jain & S P Singh. “Surface modification of thermally evaporated CdTe thin films for sensing application of organic compounds” **Indian Journal of Pure & Applied Physics.**, 55, 701-709 (2017).
5. **SK Pundir**, Sukhvir Singh, B. Sivaiah, Rajesh Kumar, Ajay Dhar. “Study of Ball Milled Bismuth Telluride Composites Reinforced with MWCNTs for Thermoelectric Behaviour, **Advanced Materials Letters.**, 7(7), 549-554 (2016).
6. Parveen Jain, Sukhvir Singh, Avanish Kumar Srivastava, **SK Pundir**, Azher Majid Siddiqui “Relevance of Microstructure on Optical Properties of Thermally Evaporated Indium Oxide Thin Films”. **Open Access Library Journal**, 2: e1200. (2015). ISSN: 2333-9721.

7. **SK Pundir**, Parveen Jain, Sukhvir Singh, A. K. Srivastava, and Rajesh Kumar “Influence of Oblique Angle Deposition on Nanostructured Bi₂Te₃ Thin Films and Their Thermoelectric Properties” **Advanced Science, Engineering and Medicine Vol. 6, pp. 1006-1014 (2014).**
8. **SK Pundir**, Sukhvir Singh, A.K. Srivastava, M.K. Dalai and Rajesh Kumar “Influence of processing conditions on nanostructure Bi₂Te₃ thin films for their structural, electrical, and thermoelectric performance”, **Advanced Science, Engineering and Medicine, Vol. 5, pp. 442-446, (2013).**
9. **SK Pundir**, Sukhvir Singh, A.K. Srivastava, K.N. Sood and Rajesh Kumar, “Effect of processing conditions of Bi₂Te₃ thin films on thermoelectric and electrical behaviour”. **Proceedings, International conference: IWPSD-2011 held at IIT Kanpur, during Dec. 19-22, pp. 401-403, (2011).**

Conferences/ Workshops attended:

1. **64th DAE-BRNS Symposium on Nuclear Physics** organized by the Department of Physics University of Lucknow, Lucknow on 23-27 Dec, 2019.
2. **Workshop on High Performance Computing (HPC)** organized by the Department of Physics University of Lucknow on 05 August 2019.
3. **International Symposium on Advances in Functional & Biological Materials** organized by the Department of Physics jointly with Humboldt Academy Lucknow on 28 Feb 2019.
4. **SK Pundir**, H Qureshi, R Kumar, S Singh. “Effect of processing conditions on thermoelectric properties on InSb thin films” **International conference, EMSI -2014 held at Delhi University, July 9-11, 2014.**
5. **SK Pundir**, S Singh, A.K. Srivastava, K.N. Sood and Rajesh Kumar “Microstructural features associated with the glancing angle deposited Bi₂Te₃ based thermoelectric thin films” **International Conference of Electron Microscopy Society of India, July 3-5, 2013 held at SINP Kolkata.**
6. Pre-Conference Satellite Workshop on Materials Science held at **Saha Institute of Nuclear Physics, Kolkata, July1-2, 2013.**
7. Presented a poster on National Science Day held at **CSIR-NPL, New Delhi on 28th Feb, 2013.**
8. 13th International Conference on Magnetic Fluids (ICMF-13) held at **CSIR-NPL, New Delhi, Jan. 7-11, 2013.**
9. 1st National Seminar on Standardization for Nano Science and Nanotechnology held at **CSIR-NPL and DST, New Delhi, Feb. 25-26, 2013.**

- 10. Workshop on Advanced Material Characterization Techniques organized by CSIR- NPL, New Delhi, July 10-12, 2012**
- 11. International Conference on Quantum Effects in Solids of Today (I-ConQuEST)-2010 held at CSIR-NPL, New Delhi, Dec. 20-23, 2010.**
- 12. Workshop on material characterization” held at CSIR- NPL, New Delhi, July 12-17, 2010.**

(Sandeep Kumar Pundir)