


Brief Bio-data

Name: Dr. Praveen Tanwar

Designation:	S.T.O.(1) Group III	
DP No. and Name:	5.01 (In-house BND)	
DU No. and Name:	5.0 (IRM-BND)	
Email:	tanwarp@nplindia.org	
Date of Joining CSIR-NPL:	31-05-2006	
Phone (office)	011-45608359	
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Research Area/ Interest

Microscopy (TEM), IR and Raman spectroscopy, EPR spectroscopy, Thin film deposition by using thermal evaporation technique, Compound semiconducting and thermoelectric materials, PL spectroscopy, nano-materials, etc.

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
Ph.D. (Applied Physics)	Physics	Delhi Technological University (DTU)	2021
M.B.A.	Specialization in Operational Management	IGNOU	2012
M.Sc. Physics	Specialization in Electronics (Exp.)	CCS University, Meerut	2006
M.Sc. Physics	Specialization in Solid State Physics and Devices (Exp.)	University of Delhi (DU)	2003
B.Sc. (Hons.) Physics	Physics (Integrated course)	University of Delhi (DU)	2001

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
T. A. Group III	CSIR-NPL	31-05-2006	30-05-2013	Spectroscopy and microscopy
T. O. Group III	CSIR-NPL	31-05-2013	30-05-2018	Microscopy and Thin film deposition
S.T.O.(1) Group III	CSIR-NPL	31-05-2018	At present	Microscopy & spectroscopy and Thin film deposition

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
06	01	Around 15		

Selected Publications

Nanostructural Features and Optical Performance of RF Magnetron Sputtered ZnO Thin Films; A. K. Srivastava, Praveen, M. Arora, S. K. Gupta, B. R. Chakraborty, S. Chandra, S. Toyoda, H. Bahadur; J. Mater. Sci. Technol., 2010, 26(11), 986-990.

Microstructure, Phase formations and Optical bands in nanostructured Alumina; J. Gangwar, K. K. Dey, Komal, Praveen, S. K. Tripathi, A. K. Srivastava; Advanced Materials Letters, 2011, 2(6), 402-408.

“Peculiar Structural, Optical, Paramagnetic, Electronic and Electrical behavior in Bulk Tin Telluride grown via Physical route”, Praveen Tanwar, A. K. Srivastava, Sukhvir Singh, A. K. Panwar, Advanced Science Letters, Volume 21, Number 9, September 2015, pp. 2855-2864(10).

“Microstructural and optical properties investigation of variable thickness of Tin Telluride thin films”, Praveen Tanwar, Amrith K. Panwar, Sukhvir Singh, A.K. Srivastava; Thin Solid Films 693 (2020) 137708.

“Comparison of Structural, Electrical and Thermoelectric Properties of Vacuum Evaporated SnTe Films of Varied Thickness”, Praveen Tanwar, A. K. Panwar, Sukhvir Singh, A. K. Srivastava, J. Nanosci. Nanotechnol. 2020, 20(6):3879-3887.

“Investigation of vacuum evaporated SnTe thin films for their structural, electrical and thermoelectric properties”, Praveen Tanwar, Sukhvir Singh, A. K. Panwar, A. K. Srivastava, Indian Journal of Pure & Applied Physics Vol. 58, October 2020, pp. 740-749.

“Ultrafast probing of Indium doping on SnTe Topological Insulator”, Praveen Tanwar, Prince Sharma, A. K. Panwar, A. K. Srivastava, A. Kumar, Sukhvir Singh and M. Kumar; Physica B 631 (2022) 413656.

Patents

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Current Activities

(Not more than 100 words)

Doing operation and maintenance of HRTEM (JEOL make) instrument and PL spectrometer. Participated in other activities as assigned.
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Honour(s)/Award(s)/ Fellowship(s)

Contributions to AcSIR

Membership of Professional Societies/ Institutions

- (1) Life member of EMSI
- (2) Life member of MSI

Any other Information

(Not more than 100 words)

Worked as Group III elected member of CSIR-NPL grievance committee.