

## Dr. Sanjay Dahiya

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### Educational Qualifications

Degree	Year of Passing	University/Institute
B.Sc.	1983	M.D.University,Rohtak
M.Sc.Physics	1985	M.D.University,Rohtak
M.Phil	1987	KurukshetraUniversity,Kurukshetra
Ph.D	2014	M.D.University,Rohtak

### Career Profile

Designation	Institute served	Duration
Lecturer(Adhoc)	M.D.University, Rohtak	08.08.1985to 31.03.1986
Lecturer	A.I.J.H.M.College,Rohtak	05.09.1987to 10.07.1989
Lecturer	M.D.University, Rohtak	10.07.1989to 31.12.2005
AssociateProfessor	M.D.University, Rohtak	01.01.2006to 08.08.2014
Professor	M.D.University, Rohtak	09.08.2014to till date

### Projects Undertaken

Title of the Project	Duration	Funding Agency	Status
Synthesis & characterization of oxide glasses containing heavy metals	2011-2013	UGC	Completed

## List of Research Publications: International/National Journals

24. Aditi Nain, Ekta Dhanda, Rishi Pal chahal, Sanjay Dahiya; *PVA/CdS-Ag Nanocomposites: Effect of Composition and UV Radiation on Optical, Electrical and Structural Properties*. **ECS Journal of Solid State Science and Technology**, (2024).
23. Ekta Dhanda, Aditi Nain, Sanjay Dahiya; *Adsorption Study and Degradation Pathway of Cerium-Doped ZnO Nanoflowers for Methylene Blue and p-Nitrophenol*. **Water, Air, & Soil Pollution** 234, 510, (2023).
22. Aditi Nain, Rishi Pal Chahal, Ekta Dhanda, Sanjay Dahiya; *Tailoring of Optical, Dielectric, and Structural Parameters of PVA by CdS-Ag Core-Shell Nanoparticles and UV Irradiation*. **ECS Journal of Solid State Science and Technology** 12, 073006 (2023).
21. Aditi Nain, Sanjay Dahiya, Rishi Pal Chahal, Ekta Dhanda; *Synergic Effect of CdS Nano Additives and UV Exposure on Properties of PVA/CdS Nanocomposite*. **ECS Journal of Solid State Science and Technology** 12, 023008, (2023).
20. Rishi Pal Chahal and Ekta Dhanda Aditi Nain, Sanjay Dahiya; *Ultraviolet(UV)irradiated induced changes in optical properties of PVA/AG nanocomposite films*. **Physica Scripta** 97, (2022).
19. Kolvinder Singh and Sunil Kumar. Vinit Kumar, Sanjay Dahiya; *Polymer composites of lead iodide and Silicone Rubber as room temperature x-rays detectors*. **Jour of Adv Research in Dynamical & Control Systems** 11, 11-Special Issue, (2019).
18. Kolvinder Singh and Sunil Kumar. Vinit Kumar, Sanjay Dahiya; *Polymer composites of lead iodide and polymethyl methacrylate as room temperature x-rays detectors*. **Jour of Adv Research in Dynamical & Control Systems**, 11, No.10, (2019).
17. Parveen Kumar, Ashwani Sharma, Sanjay Dahiya; *XRD and Band Gap Study of SrDopedCuONano Particles by Sol Gel Method*. **International Journal of Scientific Research in Science, Engineering and Technology** Vol 3 Issue 5 345-348 (2017).
16. Rajesh Kumar, Ashwani Sharma, R. Parmar, S. Dahiya, and N. Kishor; *To study the effect of doping concentration of silver on structural and optical properties of cadmium oxide (CdO) nanostructure*, **AIP Conference Proceedings** 1728, 020321, (2016).
15. Rajesh Kumar, Praveen, Ashwani Sharma, R. Parmar, S. Dahiya, and N. Kishor; *To study the effect of calcinations durations and temperature on optical and structural properties of MgO-CuO nanocomposites*, **AIP Conference Proceedings** 1728, 020385, (2016).

14. Rajesh Kumar, Praveen, Ashwani Sharma, R. Parmar, S. Dahiya, and N. Kishor; *To study the effect of dopant NiO concentration and duration of calcinations on structural and optical properties of MgO-NiO nanocomposites*, **AIP Conference Proceedings** 1728, 020193, (2016).
13. Sanjay, N. Kishore, R. Kundu, S. Dahiya, I. Pal, S. Dhankhar, and R. Punia; *Characterization and optical properties of Fe<sub>2</sub>O<sub>3</sub>-PbO-B<sub>2</sub>O<sub>3</sub> glasses*, **AIP Conference Proceedings** 1728, 020549, (2016).
12. N. Kishore, Sanjay, A. Agarwal, Sanjay Dahiya, Inder Pal; *Study of Electrical Conductivity and Dielectric Behaviour of Molybdenum containing Bismuth Borate Glasses*. **IOP Conf. Series: Materials Science and Engineering** 73 012041 ISSN 1757-899X(2015).
11. Sanjay Dahiya, Ashwani Sharma, Sanjay and N. Kishore; *Effect of Fe<sub>2</sub>O<sub>3</sub> on physical properties and structures of Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>-Fe<sub>2</sub>O<sub>3</sub> glasses*. **Archives of Physics Research**, 5(1), 42-50. ISSN 0976-0970 (2014).
10. Narender Budhiraja, Ashwani Sharma, Sanjay Dahiya, Sanjay Kumar and Rajesh; *Influences of dopant concentration on crystallography, optical and electrical properties of cadmium oxide nanoparticles*. **Journal of Nanomaterials & Molecular Nanotechnology**, 1000145. ISSN 2324-8777 (2014).
9. Sanjay, Nawal Kishore, A. Agarwal, Sanjay Dahiya, Inderpal and Naveen Kumar; *Optical and spectroscopic studies of Fe<sub>2</sub>O<sub>3</sub>-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>: V<sub>2</sub>O<sub>5</sub> glasses*. **Modern Physics Letters B**, vol. 27 No. 28, 1350207 (10). ISSN 0217-9849 (2013).
8. Sanjay Dahiya, R. Punia, Sanjay, R.S. Kundu, Ashwani Sharma and Nawal Kishore; *Effect of B<sub>2</sub>O<sub>3</sub> on physical and structural properties of 95{x}B<sub>2</sub>O<sub>3</sub> (100-x) Bi<sub>2</sub>O<sub>3</sub>.5Fe<sub>2</sub>O<sub>3</sub> glass system*. **Journal of Scientific and Technical Research**, vol. 3. No. 1 (7-13). ISSN 2278-3350 (2013).
7. Sanjay Kumar, Ashwani Sharma, Narender Budhiraja and Sanjay Dahiya; *Effect of calcination on morphology and optical properties of AlO-CeO nanocomposites*. **Archives of Applied Sciences Research**, 5 (5) 202-206. ISSN 0975-508X (2013).
6. Narender Budhiraja, Ashwani Sharma, Sanjay Dahiya, Rajesh Parmar and Viji-Vidhyadharan; *Synthesis and optical characteristics of silver nanoparticles on different substrates*. **International Letters of Chemistry, Physics and Astronomy**, (14), 80-88. ISSN 2299-3843 (2013).
5. Ashwani Sharma, Sanjay Kumar, Narender Budhiraja, Sanjay Dahiya and Mohan Singh; *Effect of calcination on optical properties and morphology of NiO-CuO nanocomposites*. **Archives of Applied Sciences Research**, 5(3) 12-128. ISSN 0975- 508X (2013).
4. Ashwani Sharma, Pallavi, Sanjay, Sanjay Dahiya and Narender Budhiraja; *Synthesis and*

*characterization of Ce-O-NiO nanocomposites. Advances in Applied Science Research*,4 (1), 124-130.ISSN 0976-8610 (2013).

3. Sanjay, N. Kishore, A. Agarwal, I. Pal S. Dahiya, *Study of electron paramagnetic resonance spectra of lead borovanadate glasses containing MoO<sub>3</sub> content. International Journal of Modern Physics* 292-297, ISSN.2010-1945 (2013).
2. Ashwani Sharma, Pallavi, Sanjay Kumar and Sanjay Dahiya; *Impact of nanotechnology in nanomedicine. Reviewed proceedings of National Seminar on challenges in combating diseases* 215-217 ISBN-978-81-920945-2-6 (2012).
1. Ashwani Sharma, Pallavi, Sanjay and Sanjay Dahiya; *Synthesis and characterization of calcinated ZnO particles. Technical Reviews (AES-ATEMA), Canada.* ISBN 978-0-9866504-9-9.

**No. of Research Papers presented (Oral/Poster) in International/National Conferences: 25**

#### **Other contributions**

- Lifemember, The Indian Science Congress Association
- Lifemember, The Indian Thermodynamics Society
- Lifemember, The Material Research Society of India
- Head, Department of Physics, M. D. University, Rohtak (01-09-2016 to 31-08-2019)
- Member, P.G. Board of Studies, M.D. University, Rohtak
- Member, U.G. Board of Studies, M.D. University, Rohtak
- Member, Academic Council, M.D. University, Rohtak
- Member, U.G. Board of Studies, D.C.R.U.S.T., Murthal (Sonapat)
- Member, P.G. Board of Studies, D.C.R.U.S.T., Murthal (Sonapat)
- Member, Selection committee of university and affiliated Colleges
- Member, P.G. Board of Studies & Research, C. D. L. University, Sirsa
- Member, P.G. Board of Studies & Research, B. P. S. M. Vishwavidyalaya, Khanpur
- Subject expert, Uttarakhand Public Service Commission
- Subject expert, Manipur Public Service Commission