

# CURRICULUM-VITAE

## Dr. Sajjan Dahiya

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### EDUCATIONAL QUALIFICATIONS

Degree	Year of Passing	University/Institute
Ph.D. (Physics)	2014	M. D. University Rohtak
M.Tech. (Solid State Materials)	2009	I.I.T. Delhi
M.Sc. (Physics)	2005	M. D. University Rohtak

### CAREER PROFILE

- Currently, Working as Assistant Professor, Department of Physics, Maharshi Dayanand University, Rohtak since 21<sup>st</sup> September 2010.

### ACHIEVEMENTS

- Qualified "CSIR-UGC NET" for the JRF in Dec. 2006 (*With in top 20% Awardees*)
- Qualified "GATE – Physics (2007), AIR- 45

### PROJECTS UNDERTAKEN & LIST OF PUBLICATIONS

#### Projects Undertaken

- UGC Minor Research Project: **Reference No.:** F. No. 41-1312/2012(SR)**Title:** Synthesis and Characterization of Sm, Bi, and Fe Modified Pb based Solid solutions for Multiferroics Properties. **Duration:** 2 years (July 2012 – June 2014)

#### List of Publications

- (1) Optimal multiferroic properties and enhanced magnetoelectric coupling in SmFeO<sub>3</sub>-PbTiO<sub>3</sub> solid solutions, Anupinder Singh, Ishan Choudhary, Sunita Mehta, [Sajjan Dahiya](#), Chitsimranjit Singh Walia, KK Raina, Ratnamala Chatterjee, *Journal of Applied Physics* 107 (2010) 084106 [I.F.- 2.068]
- (2) Effect of Bi<sub>2</sub>O<sub>3</sub> on structural, optical, and other physical properties of semiconducting zinc vanadate glasses, R Punia, RS Kundu, J Hooda, S Dhankhar, [Sajjan Dahiya](#), N Kishore, *Journal of Applied Physics* 110 (2011) 033527 [I.F.- 2.068]

- (3) Physical, Optical and Structural Properties of  $x\text{Li}_2\text{O}-(50-x)\text{Bi}_2\text{O}_3-10\text{ZnO}-40\text{B}_2\text{O}_3$  Glasses, [Sajjan Dahiya](#), AS Maan, R Punia, RS Kundu, S Murugavel, *Transactions of the Indian Ceramic Society* 71 (4), (2012) 225-228 [I.F.- 0.558]
- (4) Physical, optical and structural properties of  $x\text{Na}_2\text{O}-(50-x)\text{Bi}_2\text{O}_3-10\text{ZnO}-40\text{B}_2\text{O}_3$  glasses, [Sajjan Dahiya](#), A. S. Maan, R. Punia, and S. Murugavel, *American Institute of Physics Conf. Proc.* 1512, (2013) 566-67
- (5) DSC and DC conductivity of  $\text{ZnO.LiF.B}_2\text{O}_3$  glasses, Susheel Arora, [Sajjan Dahiya](#), Virender Kundu, D. R. Goyal and A. S. Maan, *American Institute of Physics Conf. Proc.* 1536, (2013) 681-82
- (6) Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system, [Sajjan Dahiya](#), R Punia, S Murugavel and A S Maan, *Indian Journal of Physics (Springer)* 88(11) (2014)1169–1173 [I.F.- 0.988]
- (7) Structural and dielectric properties of erbium doped  $\text{BiFeO}_3\text{-PbTiO}_3$  solid solutions, Vandana, Anupinder Singh, Lakhwant Singh, Anumeet Kaur, [Sajjan Dahiya](#) and Ratnamala Chatterjee, *American Institute of Physics Conf. Proc.* 1591, (2014) 110-12
- (8) Structural and other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system, [Sajjan Dahiya](#), R. Punia, S. Murugavel and A. S. Maan, *Journal of Molecular Structure* 1079 (2015) 189–193 [I.F.- 1.753]
- (9) DC Conduction and Electric Modulus Formulation of Lithium-Doped Bismuth Zinc Vanadate Semiconducting Glassy System, [Sajjan Dahiya](#), Rajesh Punia, Anupinder Singh, Anup S. Maan, and Sevi Murugavel, *Journal of the American Ceramic Society*, 98 [9] (2015) 2776–2783 [I.F.- 2.841]
- (10) Conductivity and modulus formulation in lithium modified bismuth zinc borate glasses, [Sajjan Dahiya](#), R Punia, S Murugavel, AS Maan, *Solid State Sciences* 55, 98-105 (2016) [I.F.- 1.811]
- (11) Structural properties and electrical transport characteristics of modified lithium borate glass ceramics, Vanita Thakur, Anupinder Singh, R Punia, [Sajjan Dahiya](#) Lakhwant Singh, *Journal of Alloys and Compounds* 696, 529-537 (2017) [I.F.- 3.133]

**Contributed in Conferences/Symposia(Orel and Poster)**

1. 15<sup>th</sup> National Seminar on Ferroelectrics and Dielectrics (NSFD-15) organized by Thapar University, Patiala, Nov.6-8, 2008.

2. 4<sup>th</sup> International conference on Electroactive Polymers held in Surajkund, Faridabad Organized by Department of Physics and Astrophysics, University of Delhi, Delhi, November 21 -26, 2010.
3. Materials And Processing Symposium, Organized by Bhabha Atomic Research Centre, Trombay, Mumbai-400085, Oct. 10-12, 2012.
4. 57<sup>th</sup> DAE-Solid State Physics Symposium, Organized by Indian Institute of Technology Bombay, Mumbai, Dec. 3-7, 2012.
5. National Symposium on Electro-ceramics: Materials and Devices, Organized by G. V. M. College, Sonapat, Feb. 21-22, 2014.
6. 2<sup>nd</sup> National Conference on Photonics & Material Science, Organised by Department of Physics, GJU Hisar, 20-21 March, 2014.
7. National Conference on Recent Developments in Physics, Organized by S. D. (PG) College, Panipat, March 29-30, 2014.
8. National Physics Conference (NPC-01), Organised by P.G. Department of Physics, Khalsa College, Patiala, 30 October, 2014.
9. National Conference on Emerging Trends in Physics and Material Science March, Organised by Department of Physics, CDLU Sirsa, 19-20 March, 2016.
10. National Seminar on Innovative Practices in Chemistry, Sponsored by DGHE Haryana, Organised by S.A. Jain P.G. College, Ambala City, 23 February, 2017.
11. National Symposium on Technologically Advanced Functional Materials, Organised by Department of Physics, Central University of Rajasthan, March 16-17, 2017.

### **Refresher/Orientation Courses**

1. Participated in the 4 week Orientation Programme( 3<sup>rd</sup> - 31<sup>st</sup> May 2012), organized by UGC-ASC, B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan (Sonapat)
2. Participated in the 4 week Refresher Course in Physics ( 16<sup>th</sup> Sept. – 11<sup>th</sup> October 2013), organized by UGC-ASC, J.N.U. New Delhi.

### **Other contributions**

- (1) Member of University-Industry Liaison Cell.
- (2) Member PGBOS (Physics) M. D. University Rohtak (14.5.2013 - 14.5.2015)
- (3) Member Faculty of Physical Sciences (16.8.2013 – 15.8.2014).
- (4) Member U.G.B.O.S. (Physics) M. D. University Rohtak (9.6.15 – 8.6.2017)
- (5) Departmental Co-ordinator Alumni Association, M. D. University Rohtak.
- (6) Member Departmental Research Committee in Physics, M. D. University Rohtak.