

CURRICULUM-VITAE

Dr. Sajjan Dahiya

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Sajjan Dahiya

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[Multiferroics](#) [Ion-Conducting Oxide Glas...](#) [UV Detectors](#)

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Citations	833	712
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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

- Worked as Assistant Professor, Department of Physics, Maharshi Dayanand University, Rohtak from 21st September 2010-20th September 2022
- Working as Associate Professor, Department of Physics, Maharshi Dayanand University, Rohtak from 21th September 2022 onwards

ACADEMIC/RESEARCH EXPERIENCE: 13+ Years

AREA OF RESEARCH

Materials Science, Ion Conducting Materils, Materials for Dye degradation and UV Detection.

ACHIEVEMENTS

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

RESEARCH GUIDANCE:

No. of Students Supervised	Ph.D. Completed	Ph.D. Ongoing
	03	04

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

S. No.	Publication	Impact Factor
66.	Priya Siwach, Latisha Gaba, Sajjan Dahiya , Rajesh Punia, AS Maan, Kuldeep Singh, Anil Ohlan; <i>Recent progress in conjugated polymers composites with metal-organic frameworks as electrode materials for supercapacitors. Applied Surface Science Advances</i> 100555 (2024) Publisher: Elsevier).	6.2
65.	Ritu Chahal, Yamini Dalal, Sajjan Dahiya , Rajesh Punia, AS Maan, Kuldeep Singh, Anil Ohlan; <i>Insitu assembly of Fe₃O₄@ FeNi₃ spherical mesoporous nanoparticles embedded on 2D reduced graphene oxide (RGO) layers as protective barrier for EMI pollution. Applied Surface Science Advances</i> , 100545 (2024) (Publisher: Elsevier) .	6.2
64.	Anjali Sharma, Ashima Makhija, Deepika Yadav, Sajjan Dahiya , Anil Ohlan, R Punia, AS Maan; <i>Effect of Sr doping on electronic transport properties of SnS₂ hexagonal nanoplates. Journal of Physics and Chemistry of Solids</i> , 111678 (2023) (Publisher: Elsevier) .	4.0
63.	Ravinder Singh, Sunil Agrohiya, Sajjan Dahiya, Ishpal Rawal, Anil Ohlan, Rajesh Punia, AS Maan; <i>Room Temperature Ammonia (NH₃) Gas Sensor based on Molybdenum Disulfide and Reduced Graphene Oxide (MoS₂/rGO) Heterojunction. Journal of Physics: Conference Series</i> , 012022 (2023) (Publisher: IOP) .	--
62.	Sukhbir Singh, Sajjan Dahiya , Rajesh Punia, AS Maan, PK Saini, Srinibas Satapathy, Rahul Tripathi, Anil Ohlan; <i>Investigation of the Structural, Dielectric, Magnetic, and Magnetoelectric Properties of Nd-Substituted Sr₃Co₂Fe₂₄O₄₁ Z-Hexaferrite. ECS Journal of Solid State Science and Technology</i> , 093012 (2023) (Publisher: ECS) .	2.2
61.	Kanishk Poria, Mukesh K Sahu, A Kumar, Sajjan Dahiya , Nisha Deopa, AS Rao; <i>Energy transfer mechanisms and color-tunable luminescence of Tm³⁺/Tb³⁺/Eu³⁺ co-doped Sr₄Nb₂O₉ phosphors for high-quality white light-emitting diodes, RSC advances</i> 13 (2023) 33675-33687 (Publisher: RSC) .	3.9

60.	Sunil Agrohiya, Ravinder Singh, Sajjan Dahiya , Ishpal Rawal, Amit Kumar, Anil Ohlan, R Punia, AS Maan; <i>Fabrication of p-ZnCo₂O₄/n-Si spinel heterojunction devices for self-powered ultraviolet photodetectors: Effect of Zn²⁺ concentration.</i> Journal of Alloys and Compounds , 171855 (2023) (Publisher: Elsevier).	6.2
59.	Sanket Malik, Silki Sardana, Sajjan Dahiya , Rajesh Punia, AS Maan, Anil Ohlan; <i>Template based synthesis of mesoporous ferrite composites with reduced graphene oxide for Electromagnetic shielding application.</i> Applied Surface Science Advances , 00463 (2023) (Publisher: Elsevier).	6.2
58.	A Sharma, A Makhija, S Dahiya , A Ohlan, R Punia, AS Maan; <i>Rietveld refinement, Morphological, Optical and Photocatalytic Dye Degradation Studies of Pristine and Sr-Doped SnS₂ Hexagonal Nanoplates.</i> Materials Research Bulletin , 112464 (2023) (Publisher: Pergamon).	5.4
57.	Silki Sardana, Sajjan Dahiya , Rajesh Punia, A. S. Maan, Kuldeep Singh and Anil Ohlan; <i>Hierarchical flower-like MoS₂/reduced graphene oxide nanohybrids supported on nickel foam as a high-performance electrode material for supercapacitor applications.</i> Journal of Materials Chemistry A (2023) (Publisher: Royal Society of Chemistry).	11.9
56.	A Makhija, A Sharma, S Dahiya , N Deopa, R Malik, R Punia, AS Maan; <i>Green emission from trivalent cerium doped LaAlO₃/MgO nano-composite for photonic and latent finger printing applications.</i> RSC advances 13 (22), 15366-15378 (2023) (Publisher: Royal Society of Chemistry).	3.9
55.	S Agrohiya, R Singh, S Dahiya , I Rawal, A Ohlan, R Punia, AS Maan; <i>Self-powered solar-blind UV photodetectors based on Zn: NiO/p-Si heterojunction devices.</i> Applied Physics A 129 (3), 233 (2023) (Publisher: Springer Berlin Heidelberg).	2.7
54.	K Bhatt, S Kumar, S Dahiya , A Kumar, R Punia, CC Tripathi; <i>Graphene ink's processing parameters controlled temperature coefficient of resistance of printed resistors.</i> Indian Journal of Physics , 1-6 (2023) (Publisher: Springer India).	2
53.	A Kumar, Ravina Lohan, Nisha Deopa, Anand Kumar, RP Chahal, S Dahiya , R Punia, AS Rao; <i>Impact of Sm³⁺ ions on structural, thermal, optical and photoluminescence properties of ZnO-Na₂O-PbO-B₂O₃ glasses for optoelectronics device applications.</i> Optical Materials 139, 113778 (2023) (Publisher: North-Holland).	3.9
52.	A Sharma, PK Goyal, I Rawal, A Rajpal, A Khokhar, V Kumar, Sajjan Dahiya ; <i>Structural characteristics and opto-electrical properties of in-situ synthesized polyaniline films.</i> Optical Materials 131 (2022)112712 (Publisher: North-Holland).	3.9
51.	Richa Pandey, Naveen Singhal, Parveen Kumar, Sajjan Dahiya ;	--

	<i>Structural, capacitive and impedance properties of graphene oxide-PVDF composites for flexible electronics. IOP Conference Series: Materials Science and Engineering</i> , 1221 (2022) 012025	
50.	Manjeet Rani, Sajjan Dahiya , Neeraj Panwar; <i>Optical, dielectric and photocatalytic investigation on Dy_{1-x}Ho_xCrO₃ (x = 0, 0.5) perovskites. Ceramics International</i> , 48, (2022) 19925-19936 (Publisher: Elsevier)	5.2
49.	Sukhbir Singh, Pardeep Khichi, Sajjan Dahiya , Rajesh Punia, PK Saini, Srinibas Satapathy, Rahul Tripathi, Anil Ohlan; <i>Enhanced magnetoelectric coupling in novel rare earth metal substituted Sr based Z-hexaferrites/P (VDF-HFP) composites. Ceramics International</i> (2023) (Publisher: Elsevier)	5.2
48.	S Pawaria, J Ahlawat, P Sharma, S Dahiya , A Ohlan, R Punia, AS Maan; <i>Glass transition and crystallization kinetics of lithium modified zinc borate semiconducting glasses by non-isothermal method. Ceramics International</i> 49 (14), 23276-23286 (2023) (Publisher: Elsevier).	5.2
47.	Seema Thakur, Vanita Thakur, Rajesh Punia, Sajjan Dahiya , Lakhwant Singh; <i>An insight into the temperature-dependent dielectric dispersion and conduction mechanisms in BaTiO₃ modified bismuth borate glass-ceramic system. Journal of Non-Crystalline Solids</i> 606, 122184 (2023) (Publisher: Elsevier).	3.5
46.	Sunil Agrohiya, Sajjan Dahiya , Ishpal Rawal, Parveen Kumar Goyal, Anil Ohlan, Rajesh Punia, AS Maan; <i>Fabrication of ZnMn₂O₄ spinel thin film devices for solar-blind ultraviolet photodetectors: Effect of Zn²⁺ concentration. Journal of Materials Science: Materials in Electronics</i> 34, 6 1-21 (2023) (Publisher: Springer International Publishing).	2.8
45.	S Pawaria, J Ahlawat, Sajjan Dahiya , A Ohlan, R Punia, S Murugavel; <i>Investigation of AC conductivity and dielectric relaxation of lithium modified zinc borate semiconducting glasses for energy storage applications. Journal of Non-Crystalline Solids</i> 620 (2023)122592(Publisher: Elsevier).	3.5
44.	Sukhbir Singh, Pardeep Khichi, Sajjan Dahiya , Rajesh Punia, AS Maan, Rahul Tripathi, Anil Ohlan; <i>A systematic study of physical properties of La substituted Sr₃Co₂Fe₂₄O₄₁ Z-hexaferrites. Ceramics International</i> 49, 3 4599-4606 (2023) (Publisher: Elsevier).	5.2
43.	Sunil Agrohiya, Sajjan Dahiya , Parveen K Goyal, Ishpal Rawal, Anil Ohlan, R Punia, AS Maan; <i>Nickel doped zinc oxide thin films for visible blind ultraviolet photodetection applications. ECS Sensors Plus</i> 1, 4 043601 (2022) (Publisher: IOP Publishing).	--
42.	Silki Sardana, Kanika Aggarwal, Sanket Malik, Ayushi Saini, Sajjan Dahiya , Rajesh Punia, AS Maan, Kuldeep Singh, Anil Ohlan; <i>Unveiling the surface dominated capacitive properties in flexible ternary polyaniline/NiFe₂O₄/reduced graphene oxide nanocomposites hydrogel</i>	6.6

	<i>electrode for supercapacitor applications. Electrochimica Acta</i> 434 , 141324 (2022) (Publisher: Elsevier).	
41.	Anjali Gupta, Silki Sardana, Sajjan Dahiya , Rajesh Punia, AS Maan, Kuldeep Singh, Rahul Tripathi, Anil Ohlan; <i>Binder-free polypyrrole/fluorinated graphene nanocomposite hydrogel as a novel electrode material for highly efficient supercapacitors. Applied Surface Science Advances</i> 11 100297 (2022) (Publisher: Elsevier).	6.2
40.	Jyoti Ahlawat, Suman Pawaria, Nisha Deopa, Sajjan Dahiya , Rajesh Punia, AS Maan; <i>Structural and Optical Characterization of IR transparent Semiconducting Sodium Modified Zinc Borate Glassy System. Applied Physics A</i> 128 (10), 1-14 (2022). (Publisher: Springer International Publishing).	2.7
39.	Suman Pawaria, Manju Bala, Harshvardhan Duhan, Nisha Deopa, Sajjan Dahiya , Anil Ohlan, Rajesh Punia, AS Maan; <i>Study of crystallization and glass transition kinetics of bismuth-modified zinc vanadate glasses by non-isothermal method. Journal of Thermal Analysis and Calorimetry</i> , 1-12 (2022) (Publisher: Springer International Publishing).	4.4
38.	Suman Pawaria, Jyoti Ahlawat, Manju Bala, Sajjan Dahiya , Anil Ohlan, R Punia, AS Maan; <i>Structural and Optical characterization of Semiconducting Lithium Modified Zinc Borate Glassy System for UV Band Reject Filter. Journal of Molecular Structure</i> 1270 , 133836 (2022) (Publisher: Elsevier).	3.8
37.	Sunil Agrohiya, Vipin Kumar, Ishpal Rawal, Sajjan Dahiya , Parveen K Goyal, Vinod Kumar, Rajesh Punia; <i>Fabrication of n-TiO₂/p-Si Photo-Diodes for Self-Powered Fast Ultraviolet Photodetectors. Silicon</i> 1-11 (2022). (Publisher: Springer).	3.4
36.	J Ahlawat, Suman Pawaria, Manju Bala, Sajjan Dahiya , Anil Ohlan, R Punia, AS Maan; <i>Study of thermal and physical properties of sodium modified zinc borate glasses. Materials Today: Proceedings</i> (2023) (Publisher: Elsevier).	-
35.	Ashima Makhija, R Punia, Sajjan Dahiya , Anil Ohlan, AS Maan; <i>Development trends of rare-earth luminescence: A bibliometric analysis. Materials Today: Proceedings</i> (2023) (Publisher: Elsevier).	-
34.	Anjali Sharma, Poonam Punia, Sajjan Dahiya , Anil Ohlan, R Punia, AS Maan; <i>Bibliometric analysis of tin disulphide nanomaterials. Materials Today: Proceedings</i> (2023) (Publisher: Elsevier).	-
33.	A. Kumar, Nisha Deopa, Anand Kumar, R. P. Chahal, S. Dahiya , R Punia, A. S. Rao; <i>Structural, thermal, optical and luminescence properties of Dy³⁺ ions doped Zinc Potassium Alumino Borate glasses for optoelectronics applications. Journal of Non-Crystalline Solids</i> 588 , 121613 (2022). (Publisher: Elsevier).	3.5
32.	A Kumar, MK Sahu, S Dahiya , Nisha Deopa, Anand Malik, R Punia, AS Rao; <i>Spectral characteristics of Tb³⁺ doped ZnF₂-K₂O-Al₂O₃-</i>	3.6

	<i>B₂O₃ glasses for epoxy free tricolor w-LEDs and visible green laser applications. Journal of Luminescence 244, 118676 (2022). (Publisher: Elsevier).</i>	
31.	Sushma Lather, Sukhbir Singh, Sajjan Dahiya , AS Maan, Rahul Singhal, Rahul Tripathi, Anil Ohlan; <i>Effect of mechanical milling on magnetic, dielectric and magneto-electric properties of Z-type (Ba, Sr) Hexaferrites. Journal of Alloys and Compounds 902 (2022) 163807(Publisher: Elsevier).</i>	6.2
30.	Silki Sardana, Anjali Gupta, AS Maan, Sajjan Dahiya , Kuldeep Singh, Anil Ohlan; <i>Design and synthesis of polyaniline/MWCNT composite hydrogel as a binder-free flexible supercapacitor electrode. Indian Journal of Physics, 96, (2022) 433–439</i>	2.0
29.	M Tijaria, Y Sharma, V Kumar, Sajjan Dahiya , J Dalal; <i>Effect of Na₂O on physical, structural and electrical properties of borate glasses. Materials Today: Proceedings, 45(2021) 3722-3725 (Publisher: Elsevier).</i>	--
28.	R Punia, Sajjan Dahiya , S Murugavel, N Kishore, R P Tandon; <i>Understanding the electrode polarization in bismuth zinc vanadate semiconducting glasses from dielectric spectroscopy: A new insight on electrode polarization effect. Journal of Non-Crystalline Solids 574, 121174 (2021). (Publisher: Elsevier).</i>	3.5
27.	A.Kumar, Anu, M.K.Sahu, Ravita, Sajjan Dahiya , Nisha Deopa, Anand Malik, R.Punia, A.S.Rao; <i>Spectral characteristics of Tb³⁺ doped ZnF₂-K₂O-Al₂O₃-B₂O₃ glasses for epoxy free tricolor w-LEDs and visible green laser applications. Journal of Luminescence 229 (2021) 117651(Publisher: Elsevier).</i>	3.6
26.	J Dalal, S Malik, S Dahiya , R Punia, K Singh, A S Maan, S K Dhawan, Anil Ohlan; <i>One pot synthesis and electromagnetic interference shielding behavior of reduced graphene oxide nanocomposites decorated with Ni_{0.5}Co_{0.5}Fe₂O₄ nanoparticles. Journal of Alloys and Compounds, 161472 (2021). (Publisher: Elsevier).</i>	6.2
25.	M Bala, S Pawaria, N Deopa, S Dahiya , A Ohlan, R Punia, A S Maan; <i>Structural, optical, thermal and other physical properties of Bi₂O₃ modified Lithium Zinc Silicate glasses. Journal of Molecular Structure 1234, 130160 (2021). (Publisher: Elsevier).</i>	3.8
24.	Sanju, Ravina, Anu, A Kumar, V Kumar, M K Sahu, S Dahiya , N Deopa, R Punia, AS Rao; <i>Physical, structural and optical characterization of Dy³⁺ doped ZnF₂-WO₂-B₂O₃-TeO₂ glasses for opto-communication applications. Optical Materials 114, 110937 (2021). (Publisher: Elsevier).</i>	3.9
23.	Ravina, Naveen, Sheetal, V Kumar, S Dahiya , N Deopa, R Punia, A S Rao; <i>Judd-Ofelt itemization and influence of energy transfer on Sm³⁺ ions activated B₂O₃-ZnF₂-SrO-SiO₂ glasses for orange-red emitting devices. Journal of Luminescence 229, 117651 (2021). (Publisher:</i>	3.6

	Elsevier).	
22.	P Redhu, A Hooda, P Sharma, S Dahiya , R Punia, RP Tandon; <i>Study of energy storage and electrocaloric behavior of lead-free Fe-doped BCT ceramics.</i> Ferroelectrics 569 (1), 136-147 (2020). (Publisher: Taylor & Francis).	0.8
21.	M Bala, S Agrohiya, S Dahiya , A Ohlan, R Punia, AS Maan; <i>Effect of replacement of Bi₂O₃ by Li₂O on structural, thermal, optical and other physical properties of zinc borate glasses.</i> Journal of Molecular Structure 1219 , 128589 (2020). (Publisher: Elsevier).	3.8
20.	Suman Kumari, Sanket Malik, Sandeep Kumar, Jasvir Dalal, Sajjan Dahiya , Anil Ohlan, Rajesh Punia, and A. S. Maan; <i>Excellent photoelectrical properties of ZnO thin film based on ZnO/epoxy-resin ink for UV-light detectors.</i> AIP Conference Proceedings 2142 , 120004 (2019). (Publisher: American Institute of Physics).	--
19.	Sanket Malik, Suman Kumari, Anil Ohlan, Sajjan Dahiya , Rajesh Punia, and A. S. Maan; <i>Synthesis and structural characterization of light-weight ferrite-reduced graphene oxide composite.</i> AIP Conference Proceedings 2142 , 160004 (2019). (Publisher: American Institute of Physics).	--
18.	Anil Kumar, Jasvir Dalal, Sajjan Dahiya , Amal Chowdhury, A. Khandual, Anil Ohlan, Rajesh Punia, and A. S. Maan; <i>Coating of multi-walled carbon nanotubes on cotton fabric via conventional dyeing for enhanced electrical and mechanical properties.</i> AIP Conference Proceedings 2142 , 140019 (2019). (Publisher: American Institute of Physics).	--
17.	Sheetal Antil, Anil Ohlan, A. S. Maan, S. Lahon, Manoj Malik, R. Punia, Sajjan Dahiya ; <i>Influence of hydrostatic pressure and spin orbit interaction on optical properties in quantum wire.</i> Physica B: Condensed Matter 552 202-208 (2019). (Publisher: Elsevier).	2.8
16.	Anil Kumar, Jasvir Dalal, Sajjan Dahiya , Rajesh Punia, K. D. Sharma, Anil Ohlan, A. S. Maan; <i>In situ Decoration of Silver Nanoparticles on Single-walled Carbon Nanotubes by Microwave Irradiation for Enhanced and Durable Anti-bacterial Finishing on Cotton Fabric</i> Ceramics International 45 1011-1019 (2019). (Publisher: Elsevier).	5.2
15.	Sushma Lather, Jasvir Dalal, Anjali Gupta, Sukhbir Singh, DP Singh, Sajjan Dahiya , AS Maan, Rahul Tripathi, Anil Ohlan; <i>PbTiO₃-Ni_{0.5}Co_{0.5}Fe₂O₄ multiferroic nanocomposites: Impact of ball-milling on dielectric, magnetic and ferroelectric properties.</i> Ceramics International , 45(4) 4957-4963(2019) (Publisher: Elsevier).	5.2
14.	Karmvir Singh, Neelam Berwal, Ishpal Rawal, Sajjan Dahiya , Rajesh Punia, Rakesh Dhar; <i>Determination of valence and conduction band offsets in Zn_{0.98}Fe_{0.02}O/ZnO hetero-junction thin films grown in oxygen environment by pulsed laser deposition technique: A study of efficient UV photodetectors.</i> Journal of Alloys and Compounds 768 978-990 (2018) (Publisher: Elsevier).	6.2

13.	Sunil Kumar, Jaswinder Pal, Shubhpreet Kaur, Vandana Sharma, Sajjan Dahiya , PD Babu, Mandeep Singh, Avijeet Ray, Tulika Maitra, Anupinder Singh; <i>Correlation between multiferroic properties and processing parameters in NdFeO₃-PbTiO₃ solid solutions.</i> Journal of Alloys and Compounds 764, 824-833(2018) (Publisher: Elsevier).	6.2
12.	Jasvir Dalal, Sushma Lather, Anjali Gupta, Sajjan Dahiya , AS Maan, Kuldeep Singh, SK Dhawan, Anil Ohlan; <i>EMI shielding properties of laminated graphene and PbTiO₃ reinforced poly (3, 4-ethylenedioxythiophene) nanocomposites.</i> Composites Science and Technology 165, 222-230(2018) (Publisher: Elsevier).	9.1
11.	Vanita Thakur, Anupinder Singh, R. Punia, S. Dahiya , and Lakhwant Singh; <i>Structural properties and electrical transport characteristics of modified lithium borate glass ceramics.</i> Journal of Alloys and Compounds 696 529-537 (2017). (Publisher: Elsevier).	6.2
10.	Sajjan Dahiya , R. Punia, S. Murugavel, and A. S. Maan; <i>Conductivity and Modulus Formulation in Lithium Modified Bismuth Zinc Borate Glasses.</i> Solid State Sciences 55, 98 – 105 (2016). (Publisher: Elsevier).	3.5
9.	Sajjan Dahiya , Rajesh Punia, Anupinder Singh, Anup S. Maan, and Sevi Murugavel; <i>DC Conduction and Electric Modulus formulation of Lithium-Doped Bismuth Zinc Vanadate Semiconducting Glassy System.</i> Journal of the American Ceramic Society 98 (9), 2776-2783 (2015). (Publisher: Wiley).	3.9
8.	Sajjan Dahiya , R. Punia, S. Murugavel, and A.S. Maan; <i>Structural and other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system.</i> Journal of Molecular Structure 1079 189–193 (2015). (Publisher: Elsevier).	3.8
7.	S. Dahiya , R. Punia, S. Murugavel, and A. S. Maan; <i>Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system.</i> Indian Journal of Physics 88(11) 1169 (2014). (Publisher: Springer).	2.0
6.	Vandana, Anupinder Singh, Lakhwant Singh, Anumeet Kaur, Sajjan Dahiya and Ratnamala Chatterjee; <i>Structural and dielectric properties of erbium doped BiFeO₃-PbTiO₃ solid solutions.</i> American Institute of Physics Conf. Proc. 1591, (2014) 110-12	--
5.	Susheel Arora, Sajjan Dahiya , Virender Kundu, D. R. Goyal and A. S. Maan; <i>DSC and DC conductivity of ZnO.LiF.B₂O₃ glasses.</i> American Institute of Physics Conf. Proc. 1536, (2013)	--
4.	Sajjan Dahiya , A. S. Maan, R. Punia, R. S. Kundu, and S. Murugavel; <i>Physical, optical and structural properties of xNa₂O-(50-x)Bi₂O₃-10ZnO-40B₂O₃ glasses.</i> AIP Conference Proceedings 1512, 566 (2013). (Publisher: American Institute of Physics).	--
3.	Sajjan Dahiya , A.S Maan, R. Punia, R.S Kundu and S. Murugavel; <i>Physical, Optical and Structural Properties of xLi₂O- (50-x) Bi₂O₃-</i>	1.2

	<i>10ZnO-40B₂O₃ Glasses. Transactions of the Indian Ceramic Society</i> 71(4) , 225 (2012). (Publisher: Taylor & Francis).	
2.	R. Punia, R. S. Kundu, S. Dhankar, J. Hooda, S. Dahiya and N. Kishore; <i>Effect of Bi₂O₃ on structural, optical and other physical properties of semiconducting zinc vanadate glasses. Journal of Applied Physics</i> 110 , 033527 (2011). (Publisher: American Institute of Physics).	3.2
1.	Anupinder Singh, Ishan Choudhary, Sunita Mehta, Sajjan Dahiya , Chitsimranjit Singh Walia, KK Raina, Ratnamala Chatterjee; <i>Optimal multiferroic properties and enhanced magnetoelectric coupling in SmFeO₃-PbTiO₃ solid solutions, Journal of Applied Physics</i> 107 084106 (2010),	3.2

Contributed in Conferences/Symposia(Oral, Invited talk and Poster)

1. 15th National Seminar on Ferroelectrics and Dielectrics (NSFD-15) organized by Thapar University, Patiala, Nov.6-8, 2008.
2. 4th 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. 57th 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. 2nd 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/Short-term Courses

1. Participated in the 4 week Orientation Programme(3rd - 31st May 2012), organized by UGC-ASC, B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan (Sonapat)
2. Participated in the 4 week Refresher Course in *Physics* (16th Sept. – 11th October 2013), organized by UGC-ASC, J.N.U. New Delhi.
3. Participated in the 4 week Refresher Course in *Physical Science/Nano Science* (27th August – 20th October 2018), organized by HRDC-JNU, New Delhi.
4. Completed Refresher Course under Swayam ARPIT Online Course Certification Scheme of MHRD, INDIA on *Engineering Mechanics*, offered by NITTTR Kolkata, proctored examination held on 30.3.2019.
5. Completed Refresher Course under Swayam ARPIT Online Course Certification Scheme of MHRD, INDIA on *Physics of Semiconductors and Devices*, offered by IISc Bangalore, proctored examination held on 30.3.2019.
6. Completed Refresher Course under Swayam ARPIT Online Course Certification Scheme of MHRD, INDIA on *Introduction To Quantum Physics and Its Applications*, offered by Indian Institute of Technology Bombay, proctored examination held on 21.08.2021
7. Participated in the Indian Nanoelectronics Users' Programme - Idea to Innovation (INUP - i2i) Hands-on Training on *Characterization of Solar Cell*, held at IIT DELHI during 5th –10th December, 2022.

Other contributions

- (1) R & D Coordinator, Faculty of Physical Sciences, MDU, Rohtak
- (2) Member of University-Industry Liaison Cell.
- (3) Member PGBOS (Physics) M. D. University Rohtak
- (4) Member Faculty of Physical Sciences
- (5) Member U.G.B.O.S. (Physics) M. D. University Rohtak
- (6) Departmental Co-ordinator Alumni Association, M. D. University Rohtak.
- (7) Member Departmental Research Committee in Physics, M. D. University Rohtak.

(Sajjan Dahiya)