

CURRICULUM VITAE

Dr. Rajesh Punia

Associate Professor
Department of Physics,
Maharshi Dayanand University, Rohtak
Mob. No. +91-9215701113
E. mail: rajeshpunia.phys@mdurohtak.ac.in



EDUCATIONAL QUALIFICATIONS

Ph.D. in Physics

Topic: “Study of electronic transport properties of some modified semiconductors”
Department of Applied Physics, GJUS&T, Hisar.

M. Sc. in Physics

Department of Physics & Astrophysics,
University of Delhi, Delhi.

FELLOWSHIPS / AWARDS / ACHIEVEMENTS

- Merit scholarship at 10th level.
- CSIR-JRF qualified (Dec. 2002 & Dec. 2003).
- GATE Qualified in 2003.
- Qualified several competitive exams like DRDO, BARC, JEST etc.
- 1st position in M Sc (Physics) entrance examination of MDU, Rohtak held in 2000.
- 2nd position in M Sc (Physics) entrance examinations of University of Delhi, Delhi held in 2001.
- 1st position in Training course on ***“Radiological Safety Aspects in the Research Application of Ionising Radiation”*** from May 21-29, 2012 organized by ***Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai*** in collaboration with ***Indian Association for Radiation Protection***.

FOREIGN VISITS

- Training Course and Seminar on **Broadband Dielectric and Impedance Spectroscopy and Its Applications** (Advanced course) by **Novocontrol Technologies** under the guidance of **Prof. B. Roling and Prof. F. Kremer in Department of Chemistry, University of Marburg, Marburg, Germany** from September 25-27, 2013.
- Seminar on **Capacity Building for excellence in Higher Education in Bangkok, Thailand** from June 22-26, 2014.

ADMINISTRATIVE EXPERIENCE

- **Hostel Warden** from April 2006 to December 2006.
- Member of **Standing Purchase Committee** from Dec. 2005 to Dec. 2007.
- Member of **Library Purchase Committee** from Nov. 2006 to Nov. 2007.
- Member of **House Allotment Committee** from Sept. 2006 to Nov. 2008 and Sept. 2012 to Oct. 2013.
- **Assistant Coordinator of Technical Education Quality Improvement Programme - II** from April 2013 to April 1, 2015.
- Member of **Board of Post – graduate Studies** in Department of Applied Physics, GJUS&T, Hisar from Dec. 2012 to Jan. 2014.
- Member of **Board of Under – graduate Studies** in Department of Applied Physics, GJUS&T, Hisar from March 2013 to January 2014.
- Member of **Board of Studies** in Department of Applied Physics, GJUS&T, Hisar from August 2014 to April 1, 2015.
- **Radiation Safety Officer** of **GJUS&T, Hisar** from Dec. 09, 2014 to April 1, 2015.
- **Subject expert** and member of **Selection Committee** for the post of **Lecturer in Physics** for **PG classes** and **Lecturer in Electronics** for **UG classes** in AI Jat Heroes' Memorial College, Rohtak.
- **Subject expert** and member of **Selection Committee** for the post of **Lecturer in Physics** for **UG classes** in Matu Ram Institute of Technology, Rohtak.
- **Chairperson, Department of Physics, IGU, Meerpur, Rewari from April 15, 2015 to July 15, 2015 and August 28, 2015 to March 31, 2016.**

- Member of **Central Purchase Committee** in **IGU, Meerpur, Rewari** from May 25, 2015 to till date.
- **Director Youth Welfare** of **IGU, Meerpur, Rewari** from April 8, 2015 to till date.
- **Director Sports** of **IGU, Meerpur, Rewari** from April 8, 2015 to August 31, 2015.
- **Chairperson, Department of Chemistry, IGU, Meerpur, Rewari from July 15, 2015 to March 31, 2016.**
- **Secretary to Vice-Chancellor, IGU, Meerpur, Rewari from July 31, 2015 to March 31, 2016.**
- **Deputy Director, Directorate of Distance Education, GJUS&T, Hisar** from Sept. 15, 2016 to Feb. 08, 2017.
- **Liaisoning Officer, GJUS&T, Hisar** from Feb. 08, 2017 to March 13, 2017.
- **Elected member Executive Council, Maharshi Dayanand University, Rohtak** from August 6, 2017 to August 5, 2019.
- Member of **Board of Post – graduate Studies** in Department of Physics, MDU, Rohtak from June 2017 to till date.
- Member of **Board of Under – graduate Studies** in Department of Physics, MDU, Rohtak from June 2017 to till date.

RESEARCH PROJECTS

Sr. No.	Title & Type of Projects (Sponsored/Consultancy) (Major/Minor)	Carried out /On Going	Funding Agency	Period	Amount Mobilized (Rs. In lakhs)
1	Synthesis and Characterization of Bismuth based Oxide Glasses (Sponsored)	Carried out	GJUS&T, Hisar	1 year	0.40
2	Nonlinear Optical Properties of Heavy Metal Oxide Doped Glasses (Sponsored)	Carried out	GJUS&T, Hisar	1 year	1.00
3.	Rn/Th and Gamma-Radiation Levels Quantification in Four Districts of Haryana (Sirsa, Fatehabad, Hisar and Bhiwani) India	On Going	BRNS, Mumbai	3 years	35.287

RESEARCH GUIDANCE

Course	Registered for Ph.D.	Thesis Submitted	Degree Awarded
Ph.D.	07		05

RESEARCH PUBLICATIONS

(i) International Journals

(a) *Published: 70*

(b) *Under review: 02*

(ii) National Journals

(a) *Published: 01*

S.No.	Publication	Impact factor
71.	Neelam Berwal, N. Ahlawat, D. Mohan, Anil Ohlan, R. Punia , N. Kishore; Study of vibrational spectroscopy, linear and non-linear optical properties of borate modified tellurium - silica- bismuthate glasses. Indian J Phys (Accepted - 2019). (Publisher: Springer).	1.242
70.	Preeti Sharma, Neelam Berwal, N Ahlawat, AS Maan, R Punia ; <i>Study of structural, dielectric, ferroelectric and magnetic properties of vanadium doped BCT ceramics. Ceramics International</i> (Accepted - 2019). https://doi.org/10.1016/j.ceramint.2019.07.013 . (Publisher: Elsevier).	3.45
69.	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. AIP Conference Proceedings 2142</i> , 120004 (2019). (Publisher: American Institute of Physics).	-
68.	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. AIP Conference Proceedings</i>	-

	2142 , 160004 (2019). (Publisher: American Institute of Physics).	
67.	Neelam Berwal, N. Ahlawat, Devendra Mohan, R. Punia , and N. Kishore; <i>Non-linear optical properties of SiO₂ modified Bi₂O₃-TeO₂-B₂O₃ glass system</i> . AIP Conference Proceedings 2142 , 140025 (2019). (Publisher: American Institute of Physics).	
66.	Kirti Nanda, R. S. Kundu, R. Punia , Sarita Sharma, and N. Kishore; <i>Judd-Ofelt intensity parameters of Nd³⁺ ions doped in BaO-ZnO-B₂O₃ glasses</i> . AIP Conference Proceedings 2142 , 070019 (2019). (Publisher: American Institute of Physics).	-
65.	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).	-
64.	K Nanda, RS Kundu, R Punia , D Mohan, N Kishore; <i>Linear and nonlinear optical characterization of neodymium doped barium-zinc-borate glasses</i> . AIP Conference Proceedings 2115 , 030266 (2019). (Publisher: American Institute of Physics).	-
63.	K Singh, A Chauhan, M Mathew, R Punia , R S Kundu; <i>Electrical and optical properties of InGa_N/Ga_N MQWs light-emitting diodes with Ni/Au/ITO transparent p-contacts</i> . Indian J Phys (2019). https://doi.org/10.1007/s12648-019-01472-0 . (Publisher: Springer).	1.242
62.	Kuldip Singh, Ashok Chauhan, Manish Mathew, Rajesh Punia , Rajender Singh Kundu; <i>Effects on electrical and optical properties of InGa_N/Ga_N MQWs light-emitting diodes using Ni/ITO transparent p-contacts on p-GaN</i> . Journal of Optics 48(2):240–245 (2019). (Publisher: Springer).	-
61.	Kuldip Singh, Ashok Chauhan, Manish Mathew, Rajesh Punia , Sher Singh Meena, Nidhi Gupta, Rajender Singh Kundu; <i>Formation of non-</i>	1.784

	<i>alloyed Ti/Al/Ni/Au low-resistance ohmic contacts on reactively ion-etched n-type GaN by surface treatment for GaN light-emitting diodes applications. Applied Physics A 125:24 (2019) (Publisher: Springer).</i>	
60.	Sheetal Malik, 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. Physica B Condensed Matter 552 202-208 (2019). (Publisher: Elsevier).</i>	1.874
59.	Sandeep Kaushik, Rajesh Punia , Anand Malik, and Atul Tyagi; <i>Effect of scattering and differential attenuation on beam profile in presence of high density intensity modifying compensator. Journal of Cancer Research and Therapeutics 15 (8), 110 (2019). (Publisher: Medknow Publications).</i>	1.392
58.	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 Ceramics International 45 1011-1019 (2019). (Publisher: Elsevier).</i>	3.45
57.	Suman Rani, N. Ahlawat, R. Punia , Kanta M Sangwan, Priyanka Khandewal; <i>Dielectric and impedance studies of La and Zn co-doped complex perovskite $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramic. Ceramics International 44 (18), 23125-23136. (Publisher: Elsevier).</i>	3.45
56.	Suman Rani, N. Ahlawat, Kanta M. Sangwan, R. Punia , Ajeet Kumar; <i>An approach for correlating electrically heterogeneous structure to enhanced dielectric properties of Sr and Zn co-substituted $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. Journal of Alloys and Compounds 769 1102-1112 (2018) (Publisher: Elsevier).</i>	4.175
55	Karmvir Singh, Neelam Berwal, Ishpal Rawal, Sajjan Dahiya, Rajesh Punia , Rakesh Dhar; <i>Determination of valence and conduction band offsets in $\text{Zn}_{0.98}\text{Fe}_{0.02}\text{O}/\text{ZnO}$ hetero-junction thin films grown in oxygen environment by pulsed laser deposition technique: A study of efficient UV</i>	4.175

	<i>photodetectors. Journal of Alloys and Compounds</i> 768 978-990 (2018) (Publisher: Elsevier).	
54	Suman Rani, Neetu Ahlawat, Kanta Maan Sangwan, Sunita Rani, R. Punia , Jaideep Malik; <i>Structural investigation and giant dielectric response of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramic by Nd/Zr co-doping for energy storage applications. Journal of Materials Science: Materials in Electronics</i> 29 (13) 10825–10833 (2018). (Publisher: Springer).	2.195
53	Suman Rani, Neetu Ahlawat, R Punia , Kanta Maan Sangwan, and Sunita Rani; <i>Dielectric relaxation and conduction mechanism of complex perovskite $\text{Ca}_{0.90}\text{Sr}_{0.10}\text{Cu}_3\text{Ti}_{3.95}\text{Zn}_{0.05}\text{O}_{12}$ ceramic. Ceramics International</i> 44 5996-6001(2018). (Publisher: Elsevier).	3.45
52	Karmvir Singh, Ishpal Rawal, Rajesh Punia , and Rakesh Dhar; <i>X-ray photoelectron spectroscopy investigations of band offsets in $\text{Ga}_{0.02}\text{Zn}_{0.98}\text{O}/\text{ZnO}$ heterojunction for UV photodetectors. Journal of Applied Physics</i> 122 155301 (2017). (Publisher: American Institute of Physics).	2.328
51	Suman Rani, N. Ahlawat, R. S. Kundu, R. Punia , Sandeep Kumar, Kanta Maan Sangwan, and Navneet Ahlawat; <i>Structural and dielectric properties of $\text{Ca}_{0.95}\text{Nd}_{0.05}\text{Cu}_3\text{Ti}_{3.95}\text{Zr}_{0.05}\text{O}_{12}$ ceramic. Ferroelectrics</i> 516 156–166 (2017). (Publisher: Taylor & Francis)	0.697
50	Sandeep Kaushik, Rajesh Punia , Atul Tyagi, and Mann P. Singh; <i>Dosimetric studies of cadmium free alloy used in compensator based intensity modulated radiotherapy. Radiation Physics and Chemistry</i> 139 184–189 (2017). (Publisher: Elsevier).	1.984
49	Anil Kumar, Rajesh Punia , Arun K. Gupta, Devendra Mohan, and Kirti Kapoor; <i>Study of all-optical switching properties of zinc phthalocyanine thin film by pump-probe technique. Optics and Laser Technology</i> 95 100–104 (2017). (Publisher: Elsevier).	3.319
48	Sunil Dhankhar, R. S. Kundu, Sunita Arya, Preeti Sharma, S. Murugavel, R. Punia , and N. Kishore; <i>Zinc Chloride Modified Electronic Transport And Relaxation Studies in Barium-Tellurite Glasses. Electronic Materials</i>	1.881

	Letters 13 (5) 412- 419 (2017) (Publisher: Springer).	
47	Neelam Berwal, Sunil Dhankhar, Preeti Sharma, R.S. Kundu, R. Punia , N. Kishore; <i>Physical, structural and optical characterization of silicate modified bismuth-borate-tellurite glasses. Journal of Molecular Structure 1127</i> , 636-633 (2017). (Publisher: Elsevier).	2.12
46	Vanita Thakur, Anupinder Singh, R. Punia , S. Dahiya, and Lakhwant Singh; <i>Structural properties and electrical transport characteristics of modified lithium borate glass ceramics. Journal of Alloys and Compounds 696</i> 529-537 (2017). (Publisher: Elsevier).	4.175
45	Sandeep Kaushik, Atul Tyagi, Lalit Kumar, Man Pal Singh, Rajender Singh Kundu, Rajesh Punia ; <i>Validation of intensity-modulated radiotherapy commissioning as per recommendations in test plans of the American Association of Physicists in Medicine task group 119 report. Radiation Protection and Environment 39(3)</i> , 138 (2016).	-
44	R. S. Kundu, Sunil Dhankhar, R. Punia , Meenakshi Dult, and N. Kishore; <i>Thermal and structural properties of zinc modified tellurite based glasses. AIP Conference Proceedings 1731</i> , 070039 (2016). (Publisher: American Institute of Physics).	-
43	Suman Rani, Neetu Ahlawat, R. Punia , R. S. Kundu, and N. Ahlawat; <i>Effect of microwave-assisted sintering on dielectric properties of CaCu₃Ti₄O₁₂ ceramic. AIP Conference Proceedings 1731</i> , 050004 (2016). (Publisher: American Institute of Physics).	-
42	Sanjay, N. Kishore, R. Kundu, S. Dahiya, I. Pal, S. Dhankhar, and R. Punia ; <i>Characterization and optical properties of Fe₂O₃-PbO-B₂O₃ glasses. AIP Conference Proceedings 1728</i> , 020549 (2016). (Publisher: American Institute of Physics).	-

41	Sunil Dhankhar, R. S. Kundu, R. Punia , Sunita, R. Parmar, Sanjay, and N. Kishore; <i>Structural characterization of ZnCl₂ modified tellurite based glasses</i> . AIP Conference Proceedings 1728 , 020340 (2016). (Publisher: American Institute of Physics).	-
40	Preeti Sharma, Parveen Kumar, R. S. Kundu, N. Ahlawat, R. Punia ; <i>Enhancement in magnetic, piezoelectric and ferroelectric properties on substitution of titanium by iron in barium calcium titanate ceramics</i> . Ceramics International 42 12167–12171 (2016). (Publisher: Elsevier).	3.45
39	Kirti Nanda, R. S. Kundu, Inder Pal, R. Punia and N. Kishore; <i>Concentration dependence of intensity parameters and radiative properties of Sm³⁺ ions doped in BaO-ZnO-B₂O₃ glasses</i> . Journal of Alloys and Compounds 676 521-526 (2016). (Publisher: Elsevier).	4.175
38	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).	2.155
37	S Dhankhar, R S Kundu, M Dult, S Murugavel, R Punia, and N Kishore. <i>Electrical conductivity and modulus formulation in zinc modified bismuth boro-tellurite glasses</i> . Indian J Phys 90(9) 1033–1040 (2016). (Publisher: Springer).	1.242
36	Rajesh Parmar, J. Hooda, R. S. Kundu, R. Punia , and N. Kishore; <i>Optical characterization of Zinc Modified Bismuth Silicate Glasses</i> . International Journal of Optics Volume 2015 , Article ID 476073, 9 pages. (Publisher: Hindawi Publishing Corporation).	
35	Sunil Dhankhar, R. S. Kundu, R. Parmar, S. Murugavel, R. Punia , and N. Kishore; <i>Electronic Transport and Relaxation Studies in Bismuth modified Zinc boro-tellurite Glasses</i> . Solid State Sciences 48 , 230 – 236 (2015). (Publisher: Elsevier).	2.155

34	Vanita Thakur, Himmat Singh, Anupinder Singh, Rahul Vaish, R. Punia , Lakhwant Singh; <i>A study on the structural and photocatalytic degradation of ciprofloxacin using (70B2O3-29Bi2O3-1Dy2O3)-x(BaO-TiO2) glass ceramics. Journal of Non Crystalline Solids 428, 197–203 (2015). (Publisher: Elsevier).</i>	2.6
33	Preeti Sharma, Parveen Kumar, R. S. Kundu, J.K. Juneja, N.Ahlawat, R. Punia ; <i>Rietveld Refinement and Dielectric Properties of Substituted Barium Titanate Ceramics for Capacitor Applications. Ceramics International 41 (10), 13425-13432 (2015). (Publisher: Elsevier).</i>	3.45
32	Sarita Sharma, Kirti Nanda, R. S. Kundu, R. Punia , and N. Kishore; <i>Structural properties, Conductivity, Dielectric studies and Modulus formulation of Ni modified ZnO nanoparticles. Journal of Atomic, Molecular, Condensate & Nano Physics 2(1) 15-31 (2015).</i>	-
31	V Thakur, A Singh, R Punia , M Kaur, and L Singh; <i>Effect of BaTiO₃ on the structural and optical Properties of lithium borate glasses. Ceramics International 41 (9) 10957–10965 (2015). (Publisher: Elsevier).</i>	3.45
30	Meenakshi Dult, R.S.Kundu, J. Hooda, S. Murugavel, R. Punia , and N. Kishore; <i>Temperature and Frequency Dependent Conductivity and Electric Modulus Formulation of Manganese Modified Bismuth Silicate Glasses. Journal of Non Crystalline Solids 423–424 1–8 (2015). (Publisher: Elsevier).</i>	2.6
29	Sarita Sharma, R. S. Kundu, Anupinder Singh, S. Murugavel, R. Punia , and N. Kishore; <i>Structural, Optical, Electrical and Magnetic Properties of Zn_{0.7}Mn_xNi_{0.3-x}O Nanoparticles Synthesized by Sol Gel Technique. Cogent Physics 2, 1055623 (2015). (Publisher: Taylor & Francis)</i>	-
28	Neelam Berwal, R. S. Kundu, Kirti Nanda, R. Punia , and N. Kishore; <i>Physical, Structural and Optical Characterizations of Borate Modified Bismuth-Silicate-Tellurite Glasses. Journal of Molecular Structure 1097,</i>	2.12

	37–44 (2015). (Publisher: Elsevier).	
27	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> . <i>Journal of the American Ceramic Society</i> 98 (9) , 2776-2783 (2015). (Publisher: Wiley).	3.094
26	Kirti Nanda, R.S. Kundu, Sarita Sharma, Devendra Mohan, R. Punia , and N. Kishore; Study of Vibrational Spectroscopy, <i>Linear and Non-Linear Optical Properties of Sm³⁺ ions doped BaO-ZnO-B₂O₃ Glasses</i> . <i>Solid State Sciences</i> 45 15-22 (2015). (Publisher: Elsevier).	2.155
25	Om Prakash Gurjar, Sandeep Kaushik, Surendra Prasad Mishra, Rajesh Punia ; <i>A study on room design and radiation safety around room for Co - 60 after loading HDR brachytherapy unit converted from room for Ir -192 after loading HDR brachytherapy unit</i> . <i>International Journal of Health & Allied Sciences</i> 4 (2) 83 – 88 (2015). (Publisher: JSS University, Mysore).	-
24	Sunita Rani, Devendra Mohan, Anil Kumar and Rajesh Punia ; <i>Optical second order nonlinearity in ultraviolet poled chalcogenide thin films</i> . <i>Journal of Optics</i> 44 (4) , 417-422(2015). (Publisher: Springer).	-
23	Meenakshi Dult, R.S. Kundu, Neelam Berwal, R. Punia , N. Kishore; <i>Manganese Modified Structural and Optical Properties of Bismuth Silicate Glasses</i> . <i>Journal of Molecular Structure</i> 1089 32–37 (2015). (Publisher: Elsevier).	2.12
22	Kirti Nanda, Neelam Berwal, R. S. Kundu, R. Punia , and N. Kishore; <i>Effect of doping of Nd³⁺ ions in BaO-TeO₂-B₂O₃ Glasses: A Vibrational and Optical Study</i> . <i>Journal of Molecular Structure</i> 1088 147–154 (2015). (Publisher: Elsevier).	2.12
21	Sajjan Dahiya, R. Punia , S. Murugavel, and A.S. Maan; <i>Structural and</i>	2.12

	other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system. <i>Journal of Molecular Structure</i> 1079 189–193 (2015). (Publisher: Elsevier).	
20	Lakhwant Singh, Vanita Thakur, R. Punia , R.S. Kundu, and Anupinder Singh; Structural and optical properties of barium titanate modified bismuth borate glasses. <i>Solid State Sciences</i> 37 64-71 (2014). (Publisher: Elsevier).	2.155
19	Meenakshi Dult, R. S. Kundu, S. Murugavel, R. Punia , and N. Kishore; Conduction mechanism in bismuth silicate glasses containing titanium. <i>Physica B</i> 452 102–107 (2014). (Publisher: Elsevier).	1.874
18	S. Dahiya, R. Punia , S. Murugavel, and A. S. Maan; Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system. <i>Indian Journal of Physics</i> 88(11) 1169 (2014). (Publisher: Springer).	1.242
17	Rajesh Parmar, R. S. Kundu, R. Punia , P. Aghamkar, and N. Kishore; Iron modified structural and optical spectral properties of bismuth silicate glasses. <i>Physica B</i> 450 39–44 (2014). (Publisher: Elsevier).	1.874
16	J. Hooda, R. S. Kundu, R. Punia , S. Murugavel and N. Kishore; Investigation of electronic transport properties of bismuth zinc silicate glasses. <i>International Journal of Applied Science & Technology Research Excellence</i> 4 (1) 19 (2014).	-
15	R.S. Kundu, Meenakshi Dult, R. Punia , Rajesh Parmar, N. Kishore; Titanium induced structural modifications in bismuth silicate glasses. <i>Journal of Molecular Structure</i> 1063 77-82 (2014). (Publisher: Elsevier).	2.12
14	R.S. Kundu, Sunil Dhankhar, R. Punia , Kirti Nanda, N. Kishore; Bismuth modified physical, structural and optical properties of mid-IR transparent zinc boro-tellurite glasses. <i>Journal of Alloys and Compounds</i> 587 66–73	4.175

	(2014). (Publisher: Elsevier).	
13	Sanjay Dahiya, R. Punia , Sanjay, R. S. Kundu, Ashwani Sharma, and N. Kishore; <i>Effect of B_2O_3 on Physical and Structural properties of $95[xB_2O_3 \cdot (100-x)Bi_2O_3] \cdot 5Fe_2O_3$ Glass System.</i> Journal of Scientific and Technical Research 3 (1) 7-13 (2013).	-
12	R.S Kundu, Sunil Dhankar, R.Punia and N. Kishore; <i>$ZnCl_2$ Modified Physical and Optical Properties of Barium Tellurite Glasses.</i> Transactions of the Indian Ceramic Society 72 (3) 206-210 (2013). (Publisher: Taylor & Francis).	1.014
11	R. Punia , R. S. Kundu, J. Hooda, Rajesh Parmar, and N. Kishore; <i>Optical properties of $Bi_{0.1}Zn_{0.45}VO_{3.1}$ thin films using UV-VIS-NIR Spectroscopy.</i> AIP Conference Proceedings 1536 , 539 (2013). (Publisher: American Institute of Physics).	-
10	Rajesh Parmar, R. S. Kundu, R. Punia , P. Aghamkar, and N. Kishore; <i>Effect of Fe_2O_3 on the physical and structural properties of bismuth silicate Glasses.</i> AIP Conference Proceedings 1536 , 653 (2013). (Publisher: American Institute of Physics).	-
9	Kirti Nanda, R. S. Kundu, R. Punia , R. Parmar, and N. Kishore <i>Physical and structural properties of Nd^{3+} doped $BaO-ZnO-B_2O_3$ glasses.</i> AIP Conference Proceedings 1536 , 659 (2013). (Publisher: American Institute of Physics).	-
8	Sajjan Dahiya, A. S. Maan, R. Punia , R. S. Kundu, and S. Murugavel; <i>Physical, optical and structural properties of $xNa_2O-(50-x)Bi_2O_3-10ZnO-40B_2O_3$ glasses.</i> AIP Conference Proceedings 1512 , 566 (2013). (Publisher: American Institute of Physics).	-
7	Sunil Dhankhar, R. S. Kundu, Rajesh Punia , Meenakshi, and Nawal Kishore; <i>Effect of ZnO on the physical and optical properties of tellurite base Glasses.</i> AIP Conference Proceedings 1512 , 580 (2013).	-

	(Publisher: American Institute of Physics).	
6	Rajesh Parmar, R.S. Kundu, R.Punia , N.Kishore and P. Aghamkar; <i>Fe₂O₃ Modified Physical, Structural and Optical Properties of the Bismuth Silicate Glasses. Journal of Materials 2013 650207 (2013). (Publisher: Hindawi Publishing Corporation).</i>	-
5	J.Hooda, R. Punia , R.S Kundu, Sunil Dhankar and N. Kishore; <i>Effect of addition of ZnO on structure and physical properties of bismuth silicate glasses. ISRN Spectroscopy 2012 578405 (2012). (Publisher: Hindawi Publishing Corporation).</i>	-
4	Sajjan Dahiya, A.S Maan, R. Punia , R.S Kundu and S. Murugavel; <i>Physical, Optical and Structural Properties of xLi₂O- (50-x) Bi₂O₃-10ZnO-40B₂O₃ Glasses. Transactions of the Indian Ceramic Society 71(4), 225 (2012). (Publisher: Taylor & Francis).</i>	1.014
3	R. Punia , R. S. Kundu, S. Murugavel and N. Kishore; <i>Hopping conduction in bismuth modified zinc vanadate glasses: An applicability of Mott's Model. Journal of Applied Physics 112, 113716 (2012). (Publisher: American Institute of Physics).</i>	2.328
2	R. Punia , R. S. Kundu, Meenakshi, S. Murugavel and N. Kishore; <i>Temperature and frequency dependent conductivity of bismuth zinc vanadate semiconducting glassy system. Journal of Applied Physics 112, 083701 (2012). (Publisher: American Institute of Physics).</i>	2.328
1	R. Punia , R. S. Kundu, S. Dhankar, J. Hooda and N. Kishore; <i>Effect of Bi₂O₃ on structural, optical and other physical properties of semiconducting zinc vanadate glasses. Journal of Applied Physics 110, 033527 (2011). (Publisher: American Institute of Physics).</i>	2.328

(iii) Papers presentation in Conferences : 42

(iv) **Lecture / invited talks delivered: 45**

(Rajesh Punia)
Rohtak