



Sr. No	Title of the project	Funding Agency	Amount (Rs. In Lakhs)	Duration & Status
1.	Ferroelectric and Dielectric properties of Lead Free Ceramics	AICTE	<b>9.00</b>	2 yrs. completed
2.	Microwave Synthesis of Ferroelectric Ceramics and their Structural Characterisation	UGC	<b>14.078</b>	3 yrs. Completed

**(F) List of Publications in Refreed Journals**

Sr. No	Title	Authors	Published in	Impact Factor
1.	Structural Transformation and investigation of dielectric properties of Ca substituted (Na <sub>0.5</sub> Bi <sub>0.5</sub> ) <sub>0.95-x</sub> Ba <sub>0.05</sub> CaxTiO <sub>3</sub> ceramics	Rekha Kumari, <i>Neetu Ahlawat</i> , Ashish Agarwal, Sujata Sanghi, Monica Sindhu,	Journal of molecular Structure (under revision)	<b>1.602</b>
2.	Phase transformation and electrical properties of CaTiO <sub>3</sub> modified Na <sub>0.48</sub> K <sub>0.48</sub> Li <sub>0.04</sub> NbO <sub>3</sub> Lead free ceramics	M. Sindhu, <i>N. Ahlawat</i> , S. Sanghi, R. Kumari, A. Agarwal	International Journal of Advanced Ceramic Technology (under revision)	<b>1.32</b>
3.	Phase Transformation and impedance spectroscopic study of Ba substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics	Rekha Kumari, <i>Neetu Ahlawat</i> , Ashish Agarwal, Sujata Sanghi, Monica Sindhu, Navneet Ahlawat	Journal of Alloys and Compounds 676 (2016) 452	<b>2.999</b>
4.	Enhancement in magnetic, piezoelectric and ferroelectric properties on substitution of titanium by iron in barium calcium titanate ceramics	Preeti Sharma, Parveen Kumar, R. S. Kundu, <i>N. Ahlawat</i> , R. Punia	Ceramics International , In press (2016)	<b>2.605</b>
5.	Rietveld refinement, impedance spectroscopy and magnetic properties of Bi <sub>0.8</sub> Sr <sub>0.2</sub> FeO <sub>3</sub> substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics	Rekha Kumari, <i>Neetu Ahlawat</i> , Ashish Agarwal, Sujata Sanghi, Monica Sindhu, Navneet Ahlawat	Journal of Magnetism and Magnetic Materials 414(2016) 1	<b>1.979</b>
6.	Effect of doping of vanadium ions on crystal structure, dielectric and magnetic properties of Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub>	Priyanka Godara, Ashish Agarwal, <i>Neetu Ahlawat</i> , Sujata Sanghi	Journal of Magnetism and Magnetic Materials 406(2016) 76	<b>1.979</b>

7.	Effect of heating rate on microstructure and electrical properties of microwave sintered CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics	Sandeep Kumar, <i>Neetu Ahlawat</i> , Navneet Ahlawat	Advanced Materials Letters, accepted (2016) DOI 10.5185	<b>1.690</b>
8.	Study of conduction mechanism in Fe <sub>2</sub> O <sub>3</sub> doped Na <sub>2</sub> O.Bi <sub>2</sub> O <sub>3</sub> .B <sub>2</sub> O <sub>3</sub> semiconducting glasses	Navneet Ahlawat, <i>Neetu Ahlawat</i> , Praveen Aghamkar, Ashish Agarwal,	Physica B: Condensed Matter 482 (2016) 58	<b>1.319</b>
9.	Microwave sintering time optimization to boost structural and electrical properties in BaTiO <sub>3</sub> ceramics	Sandeep Kumar, <i>Neetu Ahlawat</i> , Navneet Ahlawat	Journal of Integrated Science & Technology 4(1)(2016)10	<b>ISSN 2321-4635</b>
10.	Effect of microwave assisted sintering on dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic	Suman Rani, <i>Neetu Ahlawat</i> , R. Punia, R. S. Kundu, N. Ahlawat	AIP, Conf. Proc. 1731, (2016) 050004	<b>ISSN: 0094-243X</b>
11.	Study of optical properties of Lithium lead silicate glass	<i>Neetu Ahlawat</i> , Navneet Ahlawat	International Journal of Science, Technology & Management 04(01) (2015) 1551	<b>2.012</b>
12.	Crystallization kinetics, optical and dielectric properties of Li <sub>2</sub> O.CdO.Bi <sub>2</sub> O <sub>3</sub> . SiO <sub>2</sub> glasses	Saroj Rani, Sujata Sanghi, <i>Neetu Ahlawat</i> , Ashish Agarwal	Journal of molecular Structure, 1098(2015)1	<b>1.602</b>
13.	Crystal structure refinement, dielectric and magnetic properties of Sm modified BiFeO <sub>3</sub> multiferroic	Priyanka Godara, Ashish Agarwal, <i>Neetu Ahlawat</i> , Sujata Sanghi	Journal of Molecular Structure 1097 (2015) 207–213	<b>1.602</b>
14.	Influence of Bi <sub>2</sub> O <sub>3</sub> on physical, electrical and thermal properties of Li <sub>2</sub> O_ZnO_Bi <sub>2</sub> O <sub>3</sub> _SiO <sub>2</sub> glasses	Saroj Rani, Sujata Sanghi, <i>Neetu Ahlawat</i> , Ashish Agarwal	Journal of Alloys and Compounds 619 (2015) 659–666	<b>2.999</b>
15.	Structural and dielectric properties of substituted barium titanate ceramics for capacitor applications	Preeti Sharma, Parveen Kumar, R. S. Kundu, J. K. Juneja, N. <i>Ahlawat</i> , R. Punia	Ceramics International 41(2015)13425–13432	<b>2.605</b>

16.	Rietveld refinement and dielectric studies of Bi <sub>0.8</sub> Ba <sub>0.2</sub> Fe <sub>0.95</sub> V <sub>0.05</sub> O <sub>3</sub> ceramic	Priyanka Godara, Ashish Agarwal, <i>Neetu Ahlawat</i> , Sujata Sanghi, S. Rani	AIP, Conf. Proc. <b>1591</b> , (2014) 1683	<b>ISSN: 0094-243X</b>
17.	The Effect of Temperature on Ferroelectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramic	Sandeep Kumar, <i>Neetu Ahlawat</i> and Suman Punia	AIP, Conf. Proc. <b>1591</b> , (2014) 142	<b>ISSN: 0094-243X</b>
18.	Crystal structure transformation, dielectric and magnetic properties of Ba and Co modified BiFeO <sub>3</sub> multiferroic	Priyanka Godara, Ashish Agarwal, <i>Neetu Ahlawat</i> , Sujata Sanghi, Reetu Dahiya	Journal of Alloys and Compounds 594 (2014) 175–181	<b>2.999</b>
19.	Influence of Bi <sub>2</sub> O <sub>3</sub> on thermal, structural and dielectric properties of lithium zinc bismuth borate glasses	Saroj Rani, Sujata Sanghi, <i>Neetu Ahlawat</i> , Ashish Agarwal	Journal of Alloys and Compounds 597 (2014) 110–118	<b>2.999</b>
20.	Structural study of TM doped Alkali Bismuth Borate glasses	Navneet Ahlawat, <i>Neetu Ahlawat</i> , Praveen Aghamkar, Ashish Agarwal, Monica, Rekha	Adv. Mat. Lett., 4(1) (2013) 71-73	<b>1.690</b>
21.	Improved dielectric and magnetic properties of Ti modified BiCaFeO <sub>3</sub> multiferroic ceramics	Reetu, Ashish Agarwal, Sujata Sanghi, Ashima, <i>Neetu Ahlawat</i>	Journal of Applied Physics 113 (2013) 023908	<b>2.210</b>
22.	Influence of SiO <sub>2</sub> on conduction and relaxation mechanism of Li <sup>+</sup> ions in binary network former lead silicate glasses	Navneet Ahlawat, <i>Neetu Ahlawat</i> , Praveen Aghamkar, Ashish Agarwal, Sujata Sanghi, Monica Sindhu	Physica B: Condensed Matter 414 (2013) 103-109	<b>1.319</b>
23.	Crystal structure refinement and investigation of electrically heterogeneous microstructure of single phased Sr substituted BaTiO <sub>3</sub> ceramics	Monica, <i>Neetu Ahlawat</i> , Sujata Sanghi, Rekha Kumari, Ashish Agarwal	Journal of alloys and compound 575(2013)109	<b>2.999</b>
24.	Effect of Zr substitution on phase transformation and dielectric properties of Ba <sub>0.9</sub> Ca <sub>0.9</sub> TiO <sub>3</sub>	Monica, <i>Neetu Ahlawat</i> , S.ujata Sanghi, Rekha Kumari, Ashish Agarwal	Journal of Applied Physics, 114(2013) 164106	<b>2.126</b>
25.	Structural Transformation and Improved Dielectric and Magnetic Properties in Ti- Substituted Bi <sub>0.8</sub> La <sub>0.2</sub> FeO <sub>3</sub> Multiferroics	Reetu, Ashish Agarwal, Sujata Sanghi, Ashima, <i>Neetu Ahlawat</i>	Journal of Physics D Applied Physics 45 (2012) 165001	<b>2.721</b>

26.	Crystal structure refinement and dielectric relaxation of substituted M-type hexaferrites	Ashima, Sujata Sanghi, Ashish Agarwal, Reetu, <i>Neetu Ahlawat</i> , Monica	Journal of Applied Physics 112 (2012) 014110	<b>2.126</b>
27.	Phase transformation, dielectric and magnetic properties of Nb doped $\text{Bi}_{0.8}\text{Sr}_{0.2}\text{FeO}_3$ multiferroics	Reetu, Ashish Agarwal, Sujata Sanghi, Ashima, <i>Neetu Ahlawat</i> , and Monica	Journal of Applied Physics 111 (2012) 113917	<b>2.126</b>
28.	Rietveld refinement and dc conductivity of $\text{Na}_{0.5}\text{K}_{0.5}\text{NbO}_3$ ceramics	Monica Sindhu, <i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, Ashima, R. Kumari, N.N. Ahlawat	International Conference on Advances in Materials and Processing: Challenges and Opportunities, IIT Roorkee, November 2-4, 2012. (Trans Tech. Publications, Switerland, AMR 585.219)	
29.	Structural and Dielectric Properties of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ Ferroelectric Ceramics	Rekha Kumari, <i>N. Ahlawat</i> , A. Agarwal, M. Sindhu, N.N. Ahlawat	International Conference on Advances in Materials and Processing: Challenges and Opportunities, IIT Roorkee, November 2-4, 2012 (Trans Tech. Publications, Switerland, AMR 585.210)	
30.	Rietveld refinement and impedance spectroscopy of calcium titanate	Monica Sindhu, <i>Neetu Ahlawat</i> , Sujata Sanghi, Ashish Agarwal, Reetu Dahiya, Navneet Ahlawat	Current Applied Physics 12 (2012) 1429-1435	<b>2.212</b>
31.	Infrared spectroscopic study for structural investigation of lithium lead silicate glasses	<i>N. Ahlawat</i> , N. Ahlawat, A. Agarwal, P. Aghamkar, Monica	AIP Conf. Proc. 1393 (2011) 313-314	<b>ISSN: 0094-243X</b>

32.	Investigation of dispersive conductivity and dielectric losses in Barium bismuth silicate glasses	<i>N.Ahlawat</i> , A. Agarwal, P. Aghamkar, N. Ahlawat, Monica	AIP Conf. Proc. 1393 (2011) 127-128	<b>ISSN: 0094-243X</b>
33.	Influence of Ba <sup>2+</sup> ions on defect concentration in bismuth silicate glasses evidence by FTIR and UV-visible spectroscopy	<i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, N.N. Ahlawat	Physica Status Solidi (C) 8 (2011) 3167-3170	<b>1.22</b>
34.	Influence of SiO <sub>2</sub> on dispersive conductivity and absorption edge of calcium bismuthate glasses	<i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, Navneet Ahlawat	Solid State Ionics 204-205 (2011) 20-26	<b>2.561</b>
35.	Influence of SiO <sub>2</sub> on the structure and optical properties of lithium bismuth silicate glasses	<i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, R. Bala	Journal of Molecular Structure 963 (2010) 82-86	<b>1.602</b>
36.	Conductivity and dielectric relaxation in sodium borosulfate glasses	I. Pal, A. Agarwal, S. Sanghi, A. Sheoran, N. <i>Ahlawat</i>	Journal of Alloys & Compounds 472 (2009) 40-45	<b>2.999</b>
37.	Influence of Bi <sub>2</sub> O <sub>3</sub> on optical properties and structure of bismuth lithium phosphate glasses	S. Rani, S. Sanghi, A. Agarwal, N. <i>Ahlawat</i>	Journal of Alloys & Compounds 477 (2009) 504-509	<b>2.999</b>
38.	Effect of Bi <sub>2</sub> O <sub>3</sub> on the dynamics of Li <sup>+</sup> ions in Li <sub>2</sub> O·P <sub>2</sub> O <sub>5</sub> glasses	S. Rani, S. Sanghi, A. Agarwal, N. <i>Ahlawat</i>	Journal of Materials Science 44 (2009) 5781-5787	<b>2.371</b>
39.	Effect of Li <sub>2</sub> O on structure and optical properties of lithium bismosilicate glasses	<i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, S. Rani	Journal of Alloys & Compounds 480 (2009) 516-520	<b>2.999</b>
40.	Stretched exponential relaxation and dispersive conductivity behaviour in lithium bismuth silicate glasses	<i>N. Ahlawat</i> , A. Agarwal, S. Sanghi, N. Kishore	Solid State Ionics 180 (2009) 1356-1361	<b>2.561</b>
41.	Structure and physical properties of CdO·Bi <sub>2</sub> O <sub>3</sub> ·SiO <sub>2</sub> glasses	R. Bala, A. Agarwal, S. Sanghi, N. <i>Ahlawat</i>	54 <sup>th</sup> DAE Solid State Physics Symposium, The Maharaja Sayajirao University of Baroda,	

			Vadodara, Dec. 14-18, 2009	
42.	Investigation of near constant loss contribution to conductivity in lithium bismo-silicate glasses	<i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, N. Kishore, S. Rani	Journal of Non-Crystalline Solids <b>354</b> , (1 Aug 2008) 3767-3772	<b>1.766</b>
43.	Li <sup>+</sup> ion transport in lithium bismuth phosphate glasses	S. Rani, S. Sanghi, A. Agarwal, N. Kishore, N. <i>Ahlawat</i>	52 <sup>nd</sup> DAE-SSPS, Mysore University, Mysore, Dec. 27-31, 2007	

***(B) Papers published in International/National Conferences:***

Sr.No.	Title	Authors	Published in
1.	Synthesis and Characterisation of Co doped sodium bismuth borate glass	<i>Neetu Ahlawat</i> , Navneet Ahlawat	2 <sup>nd</sup> <i>International Conference</i> on Recent Trends in Basic and Applied Sciences, M.A. University, Badi, 12, May 2016
2.	Study of structure properties of chromium doped sodium bismuth borate glass	<i>Neetu Ahlawat</i> , Navneet Ahlawat, Praveen Agamkar and Ashish Agarwal	<i>National Conference</i> on Organic Synthesis and Catalysis, Guru Jambheshwar University of Science & Technology, Hisar on Feb.17-18, 2016
3.	Synthesis and Characterisation of Zr doped BaTiO <sub>3</sub> Ceramics	Kanta, <i>Neetu Ahlawat</i> , R. S. Kundu, R. Punia, Preeti Sharma, Suman Rani	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
4.	Rietveld refinement of Ba <sub>1-x</sub> CaxTiO <sub>3</sub> ceramics	Monica, N. <i>Ahlawat</i> , S. Sanghi, A. Agarwal, R. Kumari	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
5.	Structural and dielectric properties of transition metal doped BCT ceramics	Preeti Sharma, R.S. Kundu, N. <i>Ahlawat</i> , Praveen Kumar, R. Punia	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015

6.	Effect of Ca substitution on the structure and electrical properties of lead free Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics	<i>Neetu Ahlawat</i> , Rekha Kumari, Ashish Agarwal, Sujata Sanghi, Monica	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
7.	Study of structural, dielectric and magnetic properties of BiFeO <sub>3</sub> multiferroic modified with Sm <sup>3+</sup> and Gd <sup>3+</sup> ions	Priyanka Godara, Ashish Agarwal, <i>Neetu Ahlawat</i> , Sujata Sanghi	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
8.	Reitveld refinement and electrical properties of 0.9(Bi <sub>0.8</sub> Sr <sub>0.2</sub> FeO <sub>3</sub> )-0.1(Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ) ceramics	Rekha Kumari, <i>Neetu Ahlawat</i> , Ashish Agarwal, Sujata Sanghi, Monica Sindhu	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
9.	Structural properties of Fe(III) doped BCT ceramics	R. S. Kundu, R. Punia, Preeti Sharma, <i>N. Ahlawat</i>	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
10.	Crystallization kinetics and dielectric analysis of Li <sub>2</sub> O.ZnO.Bi <sub>2</sub> O <sub>3</sub> .SiO <sub>2</sub> glasses	Saroj Rani, Sujata Sanghi, <i>Neetu Ahlawat</i> , Ashish Agarwal	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
11.	Structural and dielectric properties of Ca <sub>0.95</sub> Nd <sub>0.05</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics	Suman Rani, <i>Neetu Ahlawat</i> , R. Punia, R.S. Kundu	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015
12.	Ferroelectric and piezoelectric properties of modified Barium Calcium Titanate ceramics	R. Punia, R.S. Kundu, Preeti Sharma, <i>N. Ahlawat</i>	3 <sup>rd</sup> <i>National Conference</i> on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on Nov. 18-19, 2015



13.	Effect of field frequency on dielectric response of $\text{Ca}_{0.95}\text{Sr}_{0.05}\text{Cu}_3\text{Ti}_4\text{O}_{12}$ ceramic	<i>Neetu Ahlawat</i> , Suman Rani, Rajesh Punia, R.S. Kundu, Navneet Ahlawat	<i>International Conference</i> on Electron Microscopy and XXXVI Annual Meeting of the Electron Microscope Society of India, CIDCO Convention Centre, Vashi Navi, Mumbai, July 8-10, 2015
14.	Effect of post microwave sintering on microstructural and ferroelectric properties of $\text{BaTiO}_3$	<i>Neetu Ahlawat</i> , Sandeep Kumar and Suman Punia	<i>National Conference</i> on Advances in Engineering materials (NAEM-2015) Organised by DIT University, Dehradun on 20-22 March 2015
15.	Effect of microwave assisted Pre-Sintering on Dielectric properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramic	Suman Rani, <i>Neetu Ahlawat</i> , R. Punia, R.S. Kundu, Sandeep Kumar, N. Ahlawat	<i>International Conference</i> on Condensed Matter Physics (ICMP) Himachal Pradesh University, Shimla on 4-6 Nov. 2014
16.	Rietveld refinement of $\text{Ba}_{1-x}\text{Ca}_x\text{TiO}_3$ Ceramics	<i>N. Ahlawat</i> , Monica, S. Sanghi, A. Agarwal	<i>International Conference</i> on Condensed Matter Physics (ICMP) Himachal Pradesh University, Shimla on 4-6 Nov. 2014
17.	Rietveld refinement and impedance spectroscopy analysis of $(1-x)\text{CaTiO}_3-x\text{NaNbO}_3$ ceramics	<i>Neetu Ahlawat</i> , Sujata Sanghi, Monica Sindhu, Rekha Kumari, Navneet Ahlawat	<i>International Conference</i> on Electron Microscopy and XXXV annual meeting of electron microscope Society of India (EMSI), July 9-11, 2014, University of Delhi, Delhi.
18.	Comparative Study of microwave sintered and conventionally sintered $\text{Ba}_{0.80}\text{Pb}_{0.20}\text{Ti}_{0.94}\text{Zr}_{0.06}\text{O}_3$ ceramics	Preeti Sharma, R.S. Kundu, <i>N. Ahlawat</i> , Parveen Kumar, Sangeeta Singh, R. Punia	<i>International Conference</i> on Electron Microscopy and XXXV annual meeting of electron microscope Society of India (EMSI), July 9-11, 2014, University of Delhi, Delhi.
19.	Study of Dispersive Conductivity of Calcium Bismuth Silicate Glasses by Impedance Spectroscopy	<i>Neetu Ahlawat</i> , Sujata Sanghi, Navneet Ahlawat	<i>TCCSE</i> multidisciplinary academic workshop in <i>University of Toronto</i> , 14 <sup>th</sup> - 17 <sup>th</sup> June, 2014, Toronto, Ontario, Canada,.

20.	The effect of microwave sintering on dielectric and ferroelectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic	<i>N. Ahlawat</i> , S. Kumar, S. Rani, N.N. Ahlawat	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
21.	A moderate –temperature Dielectric study of the CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic	S. Kumar, <i>N. Ahlawat</i> , R. Punia, R. S. Kundu, S. Rani, N.N. Ahlawat	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
22.	Dielectric studies of Bi <sub>2</sub> O <sub>3</sub> doped Li <sub>2</sub> O.ZnO. B <sub>2</sub> O <sub>3</sub> glasses	S. Rani, S. Sanghi, <i>N. Ahlawat</i> , A. Agarwal	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
23.	Effect of field frequency on dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic	S. Rani, <i>N. Ahlawat</i> , R. Punia, R. S. Kundu, S. Kumar, N.N. Ahlawat	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
24.	Effect of co doping on optical properties of sodium bismuth borate glasses	N.N. Ahlawat, P. Agamkar, <i>N. Ahlawat</i> , A. Agarwal, S. Kumar	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
25.	Study of Structural and electrical properties of modified BZT ceramics	Preeti, R. Punia, R.S. Kundu, <i>N. Ahlawat</i> , N. Kishore, P. Kumar	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
26.	Rietveld refinement and impedance spectroscopy of (1-x) Na <sub>0.48</sub> K <sub>0.48</sub> Li <sub>0.04</sub> NbO <sub>3</sub> -xCaTiO <sub>3</sub> ceramics	M. Sindhu, <i>N. Ahlawat</i> , S. Sanghi, R. Kumari, and A. Agarwal	2 <sup>nd</sup> <i>National Conference</i> on Photonics & Materials Science (March 20-21, 2014) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
27.	The Effect of microwave sintering on dielectric and ferroelectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic	<i>Neetu Ahlawat</i> , Sandeep Sheokand, Navneet Ahlawat	<i>International Union</i> of Materials Research Society-IUMRS-ICA 2013, Dec 16 – 20, IISC Bangalore

28.	Structural and electrical properties of $Ba_{0.9}Ca_{0.1}Ti_{1-x}Zr_xO_3$ ( $x = 0.05, 0.07, 0.10$ ) lead free ceramics	M. Sindhu, <i>N. Ahlawat</i> , S. Sanghi, R. Kumari, and A. Agarwal	<i>International Union</i> of Materials Research Society-IUMRS-ICA 2013, Dec 16 – 20, IISC Bangalore
29.	Effect of Ca substitution on the Dielectric Properties of $(Na_{0.5}Bi_{0.5})_{1-x}Ca_xTiO_3$ (NBCT) ceramics	R. Kumari, <i>N. Ahlawat</i> , S. Sanghi, A. Agarwal, M. Sindhu	<i>International Union</i> of Materials Research Society-IUMRS-ICA 2013, Dec 16 – 20, IISC Bangalore
30.	Electrical Properties of $Na_{0.5}Bi_{0.5}Ba_{0.05}Ca_{0.15}TiO_3$ Lead Free Ceramic	<i>N. Ahlawat</i> , Rekha Kumari, Ashish Agarwal, Monica Sindhu, Sujata Sanghi and Navneet Ahlawat	<i>International Union</i> of Materials Research Society-IUMRS-ICA 2013, Dec 16 – 20, IISC Bangalore
31.	Influence of $Bi^{3+}$ ions on optical properties of Lithium Cadmium Bismuth Borate Glasses	S. Rani, S. Sanghi, <i>N. Ahlawat</i> , A. Agarwal, and P. Godara	<i>International Union</i> of Materials Research Society-IUMRS-ICA 2013, Dec 16 – 20, IISC Bangalore
32.	Relaxation dynamics of $Li_2O-CdO-Bi_2O_3-B_2O_3$ glasses	Saroj Rani, S. Sanghi, A. Agarwal, <i>N. Ahlawat</i>	<i>National Conference</i> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
33.	Crystal structure and dielectric properties of $Na_{0.5}K_{0.5}NbO_3$ ceramics	Monica, <i>N. Ahlawat</i> , S. Sanghi, Rekha, N.N. Ahlawat	<i>National conference</i> on New Frontiers in Physics, March 12-13, 2013, DNPG College, Hisar, Haryana
34.	Dielectric properties of NBT lead free ceramics	<i>Neetu Ahlawat</i> , Rekha Kumari, A. Agarwal	<i>National Conference</i> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
35.	Dielectric study of $(Bi_{0.5}Na_{0.5})_{0.94}Ba_{0.06}TiO_3$ ferroelectric ceramics	M. Sindhu, <i>N. Ahlawat</i>	<i>National Conference</i> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana

36.	Effect of $V_2O_5$ on the dc conductivity of sodium bismuth borate glasses	Navneet Ahlawat, A. Agarwal, P. Aghamkar, <b>Neetu Ahlawat</b>	<b>National Conference</b> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
37.	Study of structural and dielectric properties of $BiFeO_3$ ceramic doped with Ba and V	Priyanka, A. Agarwal, <b>N. Ahlawat</b> , S. Sanghi	<b>National Conference</b> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
38.	Relaxation dynamics of $Li_2O$ - $CdO$ - $Bi_2O_3$ - $B_2O_3$ glasses	Saroj Rani, S. Sanghi, A. Agarwal, <b>N. Ahlawat</b>	<b>National Conference</b> on Physics of Engg. Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
39.	Optical Properties: Absorption edge, Optical Band Gap, Urbach energy of Titanium Bismuth Silicate glasses	Sarita, A. Agarwal, S. Sanghi, <b>N. Ahlawat</b> , S. Rani	<b>National Conference</b> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
40.	Optical Characterization of lithium bismuth phosphate glasses	S. Rani, S. Sanghi, A. Agarwal, N. Kishore, N. Ahlawat	<b>National Conference</b> on Physics of Engineering Materials, March 15-17, 2013, DCR Univ. of Sc. & Tech., Murthal, Haryana
41.	Dielectric properties of $Na_{0.45}K_{0.05}Bi_{0.5}TiO_3$ lead-free ceramics	Rekha Kumari, <b>N. Ahlawat</b> , A. Agarwal, S. Sanghi, S. Rani	<b>International Conference</b> on emerging trends in Physics for Environmental Monitoring and Management, Punjabi University, Patiala, Dec. 17-19, 2012.
42.	Study of conductivity spectra of barium titanate	Monica, <b>N. Ahlawat</b> , S. Sanghi, A. Agarwal, Priyanka	<b>International Conference</b> on emerging trends in Physics for Environmental Monitoring and Management, Punjabi University, Patiala, Dec. 17-19, 2012.
43.	Study of different electrically active regions in $CaTiO_3$ ceramics,	<b>N. Ahlawat</b> , Monica, S. Sanghi, Rekha, N. N. Ahlawat	<b>International Conference and Workshop</b> on Nanostructured Ceramics

			and other Nanomaterials, DU, delhi, Mar 13-16, 2012
44.	Rietveld Refinement and dielectric losses in LiNbO <sub>3</sub> ceramics,	Monica, N. Ahlawat, S. Sanghi, A. Agarwal	<b>International Conference</b> and Workshop on Nanostructured Ceramics and other Nanomaterials, DU, delhi, Mar 13-16, 2012
45.	Study of dielectric losses in lithium lead silicate glasses,	N.N. Ahlawat, N. Ahlawat, Praveen Agamkar, A. Agarwal, Monica	<b>International Conference</b> and Workshop on Nanostructured Ceramics and other Nanomaterials, DU, delhi, Mar 13-16, 2012
46.	Structural and dielectric properties of BiFeO <sub>3</sub> multiferroic,	Reetu, Ashish Agarwal, Sujata Sanghi, Ashima, Neetu Ahlawat	<b>International Conference</b> and Workshop on Nanostructured Ceramics and other Nanomaterials, DU, delhi, Mar 13-16, 2012
47.	Crystalline structure and dielectric properties of M type hexaferrites	Rekha, Ashima, S. Sanghi, Ashish Agarwal, Reetu, Neetu Ahlawat	<b>International Conference</b> and Workshop on Nanostructured Ceramics and other Nanomaterials, DU, delhi, Mar 13-16, 2012
48.	Study of computational effect on physical and optical parameters of calcium bismuth silicate glasses	N. Ahlawat, S. Sanghi	<b>International Seminar</b> on High Temperature Materials, Banaras Hindu University, Varanasi, Feb. 23-25, 2009
49.	Study of relaxation dynamics of Sr <sup>2+</sup> ions in bismo silicate glasses	N. Ahlawat, S. Sanghi, A. Agarwal, N. Kishore	ICFMAT-09 <b>International Conference</b> on Functional Materials for Advanced Technology, Velammal Engineering College, Chennai, 29-30 Jan. 2009
50.	Physical, optical and electrical properties of iron doped mixed alkali borate glasses	N. N. Ahlawat, A. Agarwal, N. Ahlawat	<b>National Conference</b> on Photonics & Materials Science, Hisar, Haryana, October 24-25, 2008
51.	Relaxation dynamics of alkaline ions in bismuth silicate glasses	N. Ahlawat, S. Sanghi	<b>National Conference</b> on Photonics & Materials Science, Hisar, Haryana, October 24-25, 2008

52.	Design of Fiber Optic Displacement Sensor based on Instrumentation Amplifier	R. Saini, V. Sheoran, <b>N. Ahlawat</b> , B.B.Tiwari	<b>National Conference</b> on Photonics & Materials Science, Hisar, Haryana, October 24-25, 2008
53.	Effect of SrO on broadening of absorption edge in Strontium Bismuth Silicate glasses	<b>N. Ahlawat</b> , S. Sanghi	<b>National Conference</b> on Photonics & Materials Science, Hisar, Haryana, October 24-25, 2008
54.	Effect of CaO on electrical conductivity of Fe <sub>2</sub> O <sub>3</sub> ·CaO·Bi <sub>2</sub> O <sub>3</sub> glasses	Sarita, P. Aghmkar, S. Sanghi, A. Agarwal, <b>N. Ahlawat</b>	<b>National Symposium</b> on Science & Technology of Glass and Glass-Ceramics (NSGC-08) BARC Mumbai October 2008
55.	Conductivity and dielectric behaviour of bismuth lithium phosphate glasses	S. Rani, <b>N. Ahlawat</b> , S. Sanghi and A. Agarwal	<b>National Symposium</b> on Science & Technology of Glass and Glass-Ceramics (NSGC-08), BARC, Mumbai, October 2008

**(G) TRAINING COURSES AND WORKSHOP PAPERS:**

**(a) Training Courses and Workshops**

- 1. One week Workshop** on Soft skill and Creative Writing (All levels) organized by Human Resource Development Centre, GJUS&T, Hisar, Haryana, **Feb. 01- Feb. 06, 2016.**
- 2. Hand on Training on** “Bio informatics Tools & Techniques for Gene and Protein Analysis” organized by Department of Bio-Nano Technology, GJUS&T, Hisar, Haryana, **March 06- March 07, 2014.**
- 3. Faculty Development Program** on recent advances in engineering and technology jointly organized by TEQIP-II cell and Academic Staff College, GJUS&T, Hisar, Haryana, **Sep 20- 28, 2013.**
- 4. Two Day National Workshop** On Emerging Trends In Quality Education: The Road Ahead organized by Internal Quality Assurance cell, GJUS&T, Hisar, **Aug. 29-30, 2013.**
- 5. UGC sponsored Refresher Course** in physics organized by Academic Staff College, GJUS&T, Hisar, Haryana, **May 01- 21, 2013.**
- 6. National workshop** on “Patent Awareness Vis-à-vis Intellectual Property Rights” organized by IPR & TC Cell, GJUS&T, Hisar, Haryana, **Aug.09, 2011.**

7. ***National Workshop on Chemistry in Our Lives organized by department of Chemistry, GJUS&T, Hisar, Haryana, March 14, 2011.***
8. ***National Workshop on “Recent Trends in Engineering and Technology”, organized by Faculty of Engineering & Technology, GJUS&T, Hisar, Haryana, March 06, 2010.***
9. ***One Day IUAC Acquaintance Programme on Accelerator based Science and Technology, organized by Inter University Accelerator CENTRE, New delhi & GJUS&T, Hisar, Haryana, Oct. 23, 2009.***
10. UGC sponsored ***Orientation Programme*** organized by Academic Staff College, GJUS&T, Hisar, Haryana, ***June 17- July14, 2009.***
11. A ***Workshop*** on introduction to emerging technologies for learning offered by ***University of Mannitoba*** Extended Education and Learning Technologies at GJUS&T, Hisar, ***Mar 23-29, 2009.***
12. ***Refresher course*** in physics organized by Department of Physics, Govt. College for Women, Rohtak, Haryana, ***May 7-27, 2008.***
13. ***State level Seminar on “Energy Scenario in India-A Future Perspective” organized by Govt. College for Women, Rohtak, Haryana, March 24-March 25, 2008.***

***(b) Extension Lectures Delivered:***

1. ***Extension Lecture*** delivered on ***Laser and Spectroscopy*** in Govt. College, Bhiwani, ***Feb 11 Jan. 2010.***
2. ***Four Extension Lecture*** delivered on “***Mathematical Physics***” in Indira Ghandhi University, Meerpur, Rewari, on ***Sept. 04 2015.***

***(H) CONFERENCE / SEMINARS / SYMPOSIUM/***

***(a) International Conferences:***

1. ***2nd International Conference*** on Recent Trends in Basic and Applied Sciences, Maharaja Agarsen University, Badi, Himachal Pradesh, 12, May 2016
2. ***International Conference*** on Electron Microscopy and XXXVI Annual Meeting of the Electron Microscope Society of India, CIDCO Convention Centre, Vashi Navi, Mumbai, ***July 8-10, 2015.***
3. ***International Conference*** on Condensed Matter Physics (ICCMP) Himachal Pradesh University, Shimla on ***4-6 Nov. 2014.***
4. ***TCCSE*** multidisciplinary academic workshop in ***University of Toronto, 14<sup>th</sup> -17<sup>th</sup> June, 2014, Toronto, Onterio, Canada***

5. ***International Conference*** on Electron Microscopy and XXXV annual meeting of electron microscope Society of India (EMSI), ***July 9-11, 2014***, University of Delhi, Delhi.
6. ***International Union of Materials research Society*** IMURS-ICA 2013, IISc Bangalore, ***Dec 16-20, 2013***
7. ***International Conference and Workshop*** on Nanostructured Ceramics and other nanomaterials, DU, Delhi, ***Mar 13-16, 2012***.
8. ***International Conference*** on Advances in Condensed and Nano Materials (ICACNM-2011) Panjab university, Chandigarh, ***Feb. 22-Feb 26, 2011***.
9. ***International Seminar*** on High Temperature Materials, Banaras Hindu University, Varanasi, ***Feb. 23-25, 2009***.
10. ***ICFMAT-09 International Conference*** on Functional Materials for Advanced Technology, Velammal Engineering College, Chennai, ***29-30 Jan. 2009***.

**(b) National Conferences:**

1. ***National Conference*** on Organic Synthesis and Catalysis, Guru Jambheshwar University of Science & Technology, Hisar on ***Feb.17-18, 2016***
2. ***3<sup>rd</sup> National Conference*** on Photonics & Materials Science (NCPMS), Guru Jambheshwar University of Science & Technology, Hisar on ***Nov. 18-19, 2015***
3. ***National Conference*** on Advances in Engineering materials (NAEM-2015) Organised by DIT University, Dehradun on ***21<sup>st</sup> march 2015***
4. ***2<sup>nd</sup> National Conference*** on Photonics & Materials Science (***March 20-21, 2014***) Guru Jambheshwar University of Science & Technology, Hisar, Haryana)
5. ***National Conference*** on physics of engineering materials, DCRUS&T, Murthal, ***Mar 15-17, 2013***.
6. Eighth DAE-BRNS ***National Laser Symposium*** (NLS-08), ***Jan 7-10, 2009***.
7. ***National Conference*** on Photonics & Materials Science, Guru Jambheshwar University of Science & Technology, Hisar, Haryana ***October 24-25, 2008***.

***(I) Membership of Research Organizations:***

- ✓ ***Life Member –LM-1777 Materials Research Society of India (MRSI)***
- ✓ ***Life Member- LM-1139 Electron Microscope Society of India (EMSI)***



**(J) Reviewer of Science Direct Journals (Elsevier Publication)**

**(K) Reviewer DAE-SSPS-2015, Amity University, Noida.**

**(L) Joint Secretary, 3<sup>rd</sup> National Conference on Photonics and Materials Science, NCPMS-2015**

**(M) Member, Organizing Committee, 2<sup>nd</sup> National Conference on Photonics and Materials Science, NCPMS-2014.**

**(N) Secretary of Kastoori Devi Memorial Education Trust, Rohtak.**

**(O) ADMINISTRATIVE EXPERIENCE:**

- Acting as **Co-ordinator** / Warden Girls Hostel -3 as additional charge in **GJUS&T, Hisar**, since 07 Jan. 2008.
- Member of **Selection Committee** for the post of **Lady Attendent, GJUS&T, Hisar**, Haryana
- Member of **Selection Committee** for selection of Mess Contractor in University Hostels, **GJUS&T, Hisar**, Haryana
- Member of **Board of Post – graduate Studies**
- Member of **Board of Under – graduate Studies**
- Member of various Purchase Committee in **GJUS&T, Hisar**, Haryana
- Member of Anti Ragging committee and Eve Teasing committee of **GJUS&T, Hisar**, Haryana
- **Co-ordinator, M.Sc. (Previous) Experimental Laboratory, Department of Applied Physics from Aug. 2007 to till date**

**(P) Participated in Masters Athlete Championship held in Coimbatore, on Feb. 2014.**

**(Q) Organized Inter Hostel Cultural event Goonj-2014.**

***Personal Details:***

(i) Name:	<b>Dr. Neetu Ahlawat</b>
(ii) Sex	Female
(iii) Date of Birth:	28.10.1978
(iv) Date of joining:	31.10.2005
(iv) Qualification:	M. Sc., Ph. D., NET qualified
(v) Designation:	Assistant Professor
(vi) Address Office:	Deptt. of Applied Physics, Guru Jambheshwar University of Science & Technology, Hisar-125001
(v) Residence:	Warden Residence, GH-3, G. J. U. S. T. G. J. U. S. T., Hisar