


Profile

Full Name		Dr. Manish Uniyal		
Designation		Associate Professor		
Department		Physics		
Campus		BGR Campus Pauri		
Telephone		-		
Mobile		07302846476		
Email		uniyaldrmanish@gmail.com		
Educational Qualification				
S.No.	Class	Year	Institution/Board	Subject
1	High School	1992	C.B.S.E.,New Delhi	Eng., Hindi, Maths, Science, S.St.
2	Intermediate	1994	C.B.S.E.,New Delhi	Eng., Maths, Phy. Chem.
3	B.Sc.	1997	H.N.B.G.U.Srinagar Garhwal	Phy., Chem., Maths
4	M.Sc.	1999	H.N.B.G.U.Srinagar Garhwal	Physics,
5	D.Phil.	2004	H.N.B.G.U.Srinagar Garhwal	Physics
Teaching Experience		24 Years	Research Experience	24 Years
Areas of Interest		1.Material Science 2.Condensed Matter Physics		
Honours &Awards		Best Poster Presentation Award at Nagpur University (2009)		
Member of Scientific Organizations		VIBHA(Vigyan Bharti Dev Bhoomi) Uttarakhand Chapter USERC-Coordinator (Dehradun)		

Administrative Experience	Nature of Assignment	Dates/Periods	
		From	To
	1) Working as NSS Programme Officer	29 October 2011	31 st March 2015
	2) Working as Coordinator Uttarakhand Science Education & Research Centre	31 October 2015	Till Date
	3) Working as member of various Annul Cultural Programme Committies of University	Academic Session 2007	Till Date
	4) Various Admission Committies of the University	Academic Session 2007	Till Date
	5) Purchasing Committies of the Department	Academic Session 2007	Till Date
	6) Student election in the University	Academic Session 2007	Till Date
	7) Working as micro-observer and presiding officer in state and Center election	During State and Center elections	-
	8) Member for organizing Workshop “ Students Solar Ambassador Workshop” in Association with IIT Bombay on 2 nd October 2019	2019	
Refresher Course/Training Programme/Workshop attended	1.Science Academies Refresher Course in Quantum Mechanics, Department of Physics, IIT Roorkee, 28 Nov.- Dec.12, 2013 2.Science Academies Refresher Course in Experimental Physics, Kurukshetra University, Sep.13-28, 2015. 3.School on Astronomy & Astro Physics, Department of physics, H.N.B.Garhwal University, Srinagar Garhwal, 18-22 October, 2001. 4. Workshop on “ Physics from atom to galaxy: Theoretical and Technical Status, Department of Physics,H.N.B.Garhwal University,Srinagar Garhwal, 9-10 October 2006 5.Training Programme for faculty members entitled “Ethics and values in Public Governance (IQUAC-		

	H.N.B.Garhwal University, Srinagar Garhwal, 28-29 May, 2017.	
	6. One Week Short term Course for Teachers in Higher Education -03 on Open Educational Resources in Higher Education (OERHE) 4 th -9 th September 2017.	
Conference/Symposium/Workshop attended and research Paper Presented		
International	1	Study of dielectric properties of potassium Sodium Tantalate mixed system, Manish Uniyal, Kuldeep Singh, S.C.Bhatt & B.S.Semwal, International workshop on recent advances in Nanotechnology of Magnetic Fluids, NPL New Delhi, 22-24 Jan.PP.217(RANMF-2003).
	2	One dimensional model study of ABO ₃ type perovskite with reference to KNbO ₃ , Kuldeep Singh, Manish Uniyal, S.C.Bhatt & B.S.Semwal,International workshop on recent advances in Nanotechnology of Magnetic Fluids, NPL New Delhi, 22-24 Jan.PP.217(RANMF-2003).
	3	Rheological study of ferrofluids, S.C.Bhatt, Manish Uniyal, Kuldeep Singh & B.S.Semwal, International workshop on recent advances in Nanotechnology of Magnetic Fluids, NPL New Delhi, 22-24 Jan.PP.217(RANMF-2003).
	4	Ferroelectric Properties of K _{1-x} Na _x NbO ₃ system, Manish Uniyal, S.C.Bhatt, International symposium on Nanostructured Materials ISNM-2009,Kanya Maha Vidhyala, Jalandher,Punjab, India, October 28-29,2009
	5	Investigation of Acoustical parameters of Polyvinyl Acetate (PVA), Pankaj Singh, Manish Uniyal & S.C.Bhatt, International symposium on Nanostructured Materials ISNM-2009,Kanya Maha Vidhyala, Jalandher,Punjab, India, October 28-29,2009
	6	Phase Transition Study of PSN Ceramic System, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap, International Conference on Aerosols, Air Quality & Climate Change on Himalayan Region of Uttarakhand on 21-23 october 2018 at Deptt. Of Physics,HNBGU,Srinagar (Garhwal).
	7	Study of PST mixed system, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap, International Conference on Aerosols, Air Quality & Climate Change on Himalayan Region of Uttarakhand on 21-23 october 2018 at Deptt. Of Physics,HNBGU,Srinagar (Garhwal).
	8	Preparation, Characterization and Study of mixed Potassium Sodium Niobate Mixed System, S.C.Bhatt, Manish Uniyal & Sidharth Kashyap, International Conference on Materials for Energy Applications 6-8 December 2018 at SS Jain Subodh (PG) College, Jaipur, Rajesthan
	9	Study of Sodium Potassium Tantalate mixed system, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap,

	<p>International Conference on Materials for Energy Applications 6-8 December 2018 at SS Jain Subodh (PG) College, Jaipur, Rajasthan</p> <p>10 Dielectric Properties of Sodium Potassium Tantalate mixed system, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap, International Conference on Advances in Basic Sciences(ICABS-19), 7-9 February 2019, Bhiwani, Hariyana</p>
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National

1	Variation of conductivity with temperature and frequency in sodium niobate pure and mixed system, Kuldeep Singh, Manish Uniyal , S.C.Bhatt , N.S.Panwar and B.S.Semwal, Proceedings of National Conference on Recent trends in Composites(NCRTC), 28 Feb.-2 nd march-2001
2	Preparation, characterization and measurement of dielectric properties of ceramic samples of $K_{1-x}Na_xNbO_3$ Manish Uniyal , Kuldeep Singh, S.C.Bhatt and B.S.Semwal, Paper presentation in IISc. Bangalore, National Symposium on Science and Technology of Vacuum and Thin Films, 5-7 September (IVSNS-2001).
3	Dielectric properties of orthorhombic PSN($K_xNa_{1-x}NbO_3$ system, Kuldeep Singh, Manish Uniyal , S.C.Bhatt and B.S.Semwal, Proceedings of the DAE-BRNS National Laser Symposium.Dec.19-21,2001, pp.107-108,CAT INDORE.
4	Polarizability cole-cole for PSN ($K_xNa_{1-x}NbO_3$) Kuldeep Singh, Manish Uniyal , S.C.Bhatt and B.S.Semwal,Proceedings of the DAE-BRNS National Laser Symposium.Dec.19-21,2001, pp.107-108,CAT INDORE.
5	Study of dielectric properties of potassium sodium tantalate mixed system, Manish Uniyal , Kuldeep Singh, S.C.Bhatt and B.S.Semwal.presented in the International workshop on recent advances in Nanotechnology of Magnetic Fluids, NPL New Delhi, 22-24 Jan.PP.217(RANMF-2003).
6	One dimensional model study of ABO ₃ type perovskite with reference to KNbO ₃ , Manish Uniyal , Kuldeep Singh, S.C.Bhatt and B.S.Semwal. presented in the International workshop on recent advances in Nanotechnology of Magnetic Fluids, NPL New Delhi, 22-24 Jan.PP.217(RANMF-2003).
7	Rheological study of ferrofluids, S.C.Bhatt ,Sunil Bhatt, K.Singh, M.Uniyal , R.P.Pant,D.K.Suri and B.S.Semwal, presented in the International workshop on recent advances in Nanotechnology of Magnetic Fluids, NPL New Delhi, 22-24 Jan.PP.217(RANMF-2003).
8	Dielectric properties of $Na_{1-x}K_xTaO_3$ mixed system Manish Uniyal , S.C.Bhatt and B.S.Semwal, Proceedings of DAE-BRNS, National Laser Symposium - Dec.22-24,2003,IIT Kharagpur.
9	Electrical Investigations of Electro-optic KDP and ADP crystals Manish Uniyal , Kuldeep Singh, S.C.Bhatt and B.S.Semwal , Proceedings of the DAE-BRNS National Laser Symposium, Dec. 22-24, 2003, IIT Kharagpur
10	Dielectric Study of KDP Crystal Manish Uniyal , S.C.Bhatt and B.S.Semwal

- Proceedings of the National Conference on Materials and their Applications, March 11-13, 2004, Department of Physics, Kurukshetra University, Kurukshetra
- 11 Ultrasonic Study of Nano Ferro-fluids
Manish Uniyal, S.C.Bhatt and B.S.Semwal
- Proceedings of the National Conference on Materials and their Applications, March 11-13, 2004, Department of Physics, Kurukshetra University, Kurukshetra
- 12 Characterization of $K_{1-x}Na_xNbO_3$ system
Manish Uniyal, S.C.Bhatt and B.S.Semwal
- 35th National seminar on crystallography, Feb. 22-24, 2006, NPL, New Delhi
- 13 Temperature dependent investigation of Ultrasonic parameters of Polyvinyl Acetate (PVA)
Pankaj K.Singh, **S.C.Bhatt**, Richa Saxena, **Manish Uniyal** & Manoj Negi
- The National Conference on Synthesis and characterization of Smart materials SCSM 2009, Bairelly college, Sep.12-14, 2009
- 14 Ferroelectric properties of $K_{1-x}Na_xNbO_3$ system
Manish Uniyal, S.C.Bhatt & B.S.Semwal, International symposium on Nanostructured Materials ISNM-2009, Kanya Maha Vidhyala, Jalandher, Punjab, India, October 28-29, 2009
- 15 Investigation of Acoustical parameters of Polyvinyl Acetate (PVA)
Manish Uniyal, S.C.Bhatt, Richa saxena & B.S.Semwal, International symposium on Nanostructured Materials ISNM-2009, Kanya Maha Vidhyala, Jalandher, Punjab, India, October 28-29, 2009
- 16 Study of Polarizability factor for Sodium Potassium Tantalate mixed system
Manish Uniyal & S.C.Bhatt, National Conference on 'Recent Trends in material Synthesisd & characterization (NCRTMSC-2009), 4-5 December, Nagpur University
- 17 Preperation and Characterization of ceramic Samples of Potassium Sodium Tantalate mioxed systems
Manish Uniyal & S.C.Bhatt National Conference on 'Recent Trends in material Synthesisd & characterization (NCRTMSC-2009), 4-5 December, Nagpur University
- 18 Temperature and Frequency dependence of width in Sodium Potassium Tantalate mixed systems
Manish Uniyal & S.C.Bhatt, National Conference on 'Recent Trends in material Synthesisd & characterization (NCRTMSC-2009), 4-5 December, Nagpur University
- 19 Preparation, characterization & measurements of dielectric properties of $K_{1-x}Na_xNbO_3$
Manish Uniyal and S C Bhatt, Proceedings of DAE-BRNS National Laser Symposium (NLS-20), Jan. 9-12, 2012.
- 20 Acoustical Velocity of Potassium Sodium Tantalate mixed system
Manish Uniyal, S.C.Bhatt, R.P.Gairola and B.S.Semwal, Proceedings of Natonal Conerence on Recent Advnces in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9

21	Dielectric Properties of mixed $K_{1-x}Na_xNbO_3$ Ceramics Manish Uniyal, S.C.Bhatt , R.P.Gairola and S.C.Nautiyal, Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9
22	Polarizing Properties of mixed ferroelectric PSN System Manish Uniyal, S.C.Bhatt , R.P.Gairola and S.C.Nautiyal, Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9
23	Ultrasonic Studies of Polyvinyl acetate in acetic acid Pankaj K Singh, S.C.Bhatt & Manish Uniyal , Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9
24	Experimental Dielectric Properties of Sodium Tantalate Mixed Systems Manish Uniyal & S.C.Bhatt , National Seminar on New Horizons in Theoretical and Experimental Physics (NHTEP-2015), February 19-20, 2015, GPGC Gopeshwar
25	X-ray diffraction study of Ceramic Samples of Potassium Sodium Tantalate mixed system, Manish Uniyal & S.C.Bhatt , National Laser Symposium (NLS-24), RRCAT, Indore, 2-5 December, 2015, NLS Identifier: ISBN: 978-81-903321-6-3 Article: CP-6.1
26	An Overview of Ferroelectric Materials, Manish Uniyal, S.C.Bhatt , First National Conference on Radiation Awareness and Detection in Natural Environment (RADNET-1), June 15-17, 2015.
27	Phase Transition study of PSN Ceramic System, Manish Uniyal, S.C.Bhatt , National Conference on Science & Technology for National Development, At Department of Chemistry, Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand at Nov.20-22, 2016.
28	Preparation and Ultrasonic Investigation of Potassium Sodium Tantalate ($K_{1-x}Na_xTaO_3$) Mixed System, Manish Uniyal S.C.Bhatt , National Conference on current Trends in Applied Sciences at J.V.Jain College, Saharanpur, (U.P.) on March 18-19, 2017.
29	Preparation, Characterization and Measurement of Potassium Sodium Tantalate ($K_{1-x}Na_xTaO_3$) Mixed System. Manish Uniyal & S.C.Bhatt , National Conference on Materials for Sustainable Development and New Technology at Central University of Jammu (MSDNT-17), Jammu on 28-29 April 2017.
30	Study of Sodium Potassium Niobate Mixed System, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap , 13 th Uttarakhand State Science and technology Congress, 26-28 February 2019.
Conference/Symposium/workshop Organized	
1.Organizing Secretary- National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October 2013, at Deptt. Of Physics, H.N.B.Garhwal University, Srinagar (Garhwal)	

2. Organizing Secretary-**Internatioinal Conference** on Material Science and Applications (ICMSAA-19), 25-27 November 2019.
3. Organizing Secretary-**Internatioinal Conference** on Recent Advances in Material Science (ICRAMS-21) 15-17 May 2021.
4. Organizing Secretary-**Internatioinal Webinar** on Basic Sciences and Physics , 6 December 2022
5. Organizing Secretary-**Natioinal Webinar** on Applied Physics and Applications , 25 January 2024

Best Peer Reviewed Publications

Journals	
1	Study of subcell parameters, Grain size and dielectric properties of Potassium Sodium niobate mixed systems
	Kuldeep Singh, Manish Uniyal , S.C.Bhatt and B.S.Semwal,
	Srilankan Journal of Physics 1(2001)13
2	Ultrasonic Investigations of ferrofluids
	S.C.Bhatt ,H.K.Semwal, Manish Uniyal and B.S.Semwal,
	J.Acoustic Soc. Of India 33(2005)264-267
3	Preperation , Characterization and dielectric studies of $K_{1-x}Na_xNbO_3$
	Manish Uniyal ,K.Singh,Sunil
	Bhatt, S.C.Bhatt ,S.C.Bhatt,R.P.Pant,D.K.Suri and B.S.Semwal,
	Indian Journal of Pure & Applied Physics Vol.41(2003)305
4	Temperature and frequency dependence of width in Sodium Potassium niobate nixed system
	Manish Uniyal , S.C.Bhatt ,R.Bhandari, M.S.Ramchandra
	Rao,R.P.Pant and B.S.Semwal, Indian Journal of Pure & Applied
	Physics Vol.42(2004)341
5	Temperature dependence of dielectric properties of sodium potassium niobate ceramics
	S.C.Bhatt ,K.Singh, Manish Uniyal & B.S.Semwal, Indian Journal
	of Pure & Applied Physics Vol.45(2007)613
6	Dielectric and electric properties of $K_{1-x}Na_xNbO_3$
	Manish Uniyal & S.C.Bhatt , , Indian Journal of Pure & Applied
	Physics Vol.49(2011)350
7	Temperature dependence of width and soft mode frequency in Sodium potassium Tantalate mixed system
	Manish Uniyal & S.C.Bhatt , , Indian Journal of Pure & Applied
	Physics Vol.50, April 2012,248-251
8	Synthesis, Characterization and dielectric properties of $K_{1-x}Na_xNbO_3$
	S.C.Bhatt , Manish Uniyal , International Journal of
	materials and Chemistry, 2012,2(2) :47-50
9	Polarizability factor for $Na_{1-x}K_xTaO_3$ mixed ceramics
	Manish Uniyal , S.C.Bhatt & R.P.Gairola, Indian Journal of Pure
	& Applied Physics, Vol.50, December 2012, pp.915-917
10	Polarizability investigation by first order transition in the self-consistent phonon approximation for PSN system
	Manish Uniyal & S.C.Bhatt , Indian Journal of Pure & Applied
	Physics, Vol.52, June 2014, pp391-394

	<p>11 Ultrasonic Velocity in Potassium Sodium Tantalate Mixed System Manish Uniyal & S.C.Bhatt, International Journal of Scientific Research in Science and Technology, Volume 1/Issue 5/Print ISSN: 2395-6011/online ISSN: 2395-602X (2015)</p> <p>12 Ultrasonic Study of Binary Liquid Mixture of n-Hexane and Acetic Acid H.K.Semwal, Manish Uniyal & S.C.Bhatt, International Journal of Science and Research, ISSN (Online):2319-7064 (2015)</p> <p>13 Temperature Dependence of Polarizability in Sodium Potassium Tantalate Mixed Ceramic System Manish Uniyal, H.K.Semwal & S.C.Bhatt International Journal of Scientific Research in Science and Technology, Volume 1/Issue 5/Print ISSN: 2395-6011/online ISSN: 2395-602X</p> <p>14 Study of Electrical Properties of Ferrofluids Manish Uniyal, Suresh C.Nautiyal, Shaurya Bhatt and S.C.Bhatt, Chemical Science Transaction, 2018,7(4),652-655, ISSN: 2278-3458, DOI: 10.7598/cst2018.1544.</p> <p>15. Preparation and Ultrasonic study of Sodium Potassium Tantalate ($\text{Na}_{1-x}\text{K}_x\text{TaO}_3$) mixed system, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap, Indian Journal of Pure and Applied Physics, Vol.57 (2019) 212.</p> <p>16. Dielectric properties of sodium potassium tantalate mixed system, Manish Uniyal, S.C.Bhatt & Sidharth Kashyap, AIP Conference Proceedings 2142, 040012 (2019); https://doi.org/10.1063/1.5122349 Published Online: 29 August 2019</p> <p>17. Investigation of the perovskite Phase, Morphology and Dielectric Properties of Lead Magnesium Niobate, Sidharth Kashyap, S.C.Bhatt, Manish Uniyal and Gambhir Singh Kathait, Accepted for publication in AIP Conference Proceedings (2019)</p> <p>18. Structural and Dielectric Properties of Lead Magnesium Niobate and Ti-doped Lead Magnesium Niobate at room temperature, Sidharth Kashyap, S.C.Bhatt, Manish Uniyal and Gambhir Singh Kathait, Accepted publication in Materials Today (Elsevier) Proceedings (2020)</p>
Proceedings	<p>1 Preparation, characterization & measurements of dielectric properties of $\text{K}_{1-x}\text{Na}_x\text{NbO}_3$ Manish Uniyal and S C Bhatt, Proceedings of DAE-BRNS National Laser Symposium (NLS-20), Jan. 9-12, 2012.</p> <p>2 Study of Polarizability factor for Sodium Potassium Tantalate mixed system Manish Uniyal & S.C.Bhatt, National Conference on ‘Recent Trends in material Synthesis & characterization (NCRTMSC-2009)’, 4-5 December, Nagpur University</p> <p>3 Temperature and Frequency dependence of width in Sodium Potassium Tantalate mixed systems Manish Uniyal & S.C.Bhatt, National Conference on ‘Recent</p>

	<p>Trends in material Synthesis & characterization (NCRTMSC-2009), 4-5 December, Nagpur University</p> <p>4 Acoustical Velocity of Potassium Sodium Tantalate mixed system Manish Uniyal, S.C.Bhatt, R.P.Gairola and B.S.Semwal, Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9</p> <p>5 Dielectric Properties of mixed $K_{1-x}Na_xNbO_3$ Ceramics Manish Uniyal, S.C.Bhatt, R.P.Gairola and S.C.Nautiyal, Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9</p> <p>6 Polarizing Properties of mixed ferroelectric PSN System Manish Uniyal, S.C.Bhatt, R.P.Gairola and S.C.Nautiyal, Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9</p> <p>7 Ultrasonic Studies of Polyvinyl acetate in acetic acid Pankaj K Singh, S.C.Bhatt & Manish Uniyal, Proceedings of National Conference on Recent Advances in Material Science (NCRAMS-13), 26-27 October, 2013, Deptt. Of Physics, H.N.B.Garhwal University, Srinagar, ISBN 978-93-8816567-9</p> <p>8 Experimental Dielectric Properties of Sodium Tantalate Mixed Systems Manish Uniyal & S.C.Bhatt, National Seminar on New Horizons in Theoretical and Experimental Physics (NHTEP-2015), February 19-20, 2015, GPGC Gopeshwar, ISBN: 978-93-5254-250-5</p> <p>9 X-ray diffraction study of Ceramic Samples of Potassium Sodium Tantalate mixed system, Manish Uniyal & S.C.Bhatt, National Laser Symposium (NLS-24), RRCAT, Indore, 2-5 December, 2015, NLS Identifier: ISBN: 978-81-903321-6-3 Article: CP-6.1\</p>
Books	<p>1) Book edited-Proceedings of National Conference on recent advances in Material Science (2013).</p> <p>2) Book edited-Special issue of Applied Innovative Research Journal of CSIR New Delhi.</p> <p>3) Book edited-Special issue of Journal of Mountain Research SHARAD Pauri.</p>
Total Number of Research Publications	
1.Journals [25] 2.Conference/Proceedings[30]	