


Curriculum Vitae

Full Name	Vishal Rohilla			
Designation	Assistant Professor			
Department	Instrumentation Engineering-USIC			
Campus	Srinagar (Chauras)			
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Education Qualification	<ol style="list-style-type: none"> 1. Pursuing Ph.D. (Dept. of Electronic Science, KUK, Haryana) 2. M.Tech. Instrumentation (2009), UCIM, Panjab University, Chandigarh. 3. M.Sc. Electronics (2006), ELSD, Kurukshetra University, Kurukshetra. 			
Teaching Experience	10 Years	Research Experience	7 Year	
Areas of Interest/ Specialization				
<ol style="list-style-type: none"> 1. Analytical Instruments (ICP-MS, XRD) 2. Microcontrollers 3. Virtual Instrumentation 4. Electrical properties of materials 				
Administrative Experience				
<ol style="list-style-type: none"> 1. Member of Departmental Purchase Committee. 2. Member of departmental Board of Studies (BoS) in 2017-18, 2018-19. 3. GeM Incharge in 2019-20. 				
Membership of Scientific Organization				
<ol style="list-style-type: none"> 1. Lifetime Member of Instrument Society of India, IISc Bangalore 				
Orientation/Refresher Courses Attended				
<ol style="list-style-type: none"> 1. Orientation Programme organized by UGC-Academic Staff College, GJU S&T, Hisar, Haryana from 19-06-2014 to 16-07-2014. 2. Special summer school programme organized by UGC-HRDC, University of Allahabad, from 08-06-2016 to 28-06-2016. 3. Short term training programme on 'Computational techniques in research methodology for sciences and social sciences' organized by FDC, HNBGU, from 25-07-2019 to 31-07-2019. 				
Other Courses and achievements.				
<ol style="list-style-type: none"> 1. Passed 5-week course on 'Introduction to battery-management systems' University of Colorado Boulder. On coursera.org platform. June 2020. 2. Passed 5-week course on 'Nanotechnology and Nanosensors, Part1' Technion- Israel Institute of Technology. On coursera.org platform. July 2020. 3. Passed 6-week course on 'Engineering Health: Introduction to Yoga and Physiology' New York University. On coursera.org platform. September 2020. 4. Designed and developed an Ultra Violet light based sanitization box for files, papers and 				

other articles.

Conference/Symposium/Workshop Attended

1. Attended a Workshop on NMEICT Awareness "Recent Trends in Education System", organized by Dept. of Computer Science & Engineering, National Institute of Technology, Uttarakhand, on 29th & 30th November, 2014.
2. Attended online Short Term Course on "Nanoscience for Engineering Applications", jointly organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh and Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, from 22nd June to 26th June, 2020.
3. Attended 'Techno-Societal 2020: 3rd International Conference on Advanced Technologies for Societal Applications' organized by SVERIs College Of Engineering Pandharpur, India, on 11th to 12th December, 2020.
4. Attended '6th International Young Scientist Congress (IYSC-2023)' and 'Workshop on Intellectual Property Rights' Organized by International Science Community Association in collaboration with Graphic Era Deemed to be University, Dehradun, Uttarakhand, India, on 8th and 9th May 2023.
5. Attended 'National Conference on Recent Advances in Theoretical & Experimental Sciences (NCRATES-2023)' organized by Uttarakhand Science Education and Research Centre at Department of Physics, Bhakt Darshan Govt. P. G. College, Jaiharikhal (Lansdowne), Pauri Garhwal on 29th and 30th September 2023.

Best Peer-Reviewed Publications 2009 onwards

1. GS Kathait, V Rohilla, P Thapliyal, D Biswas, S Singh, Effect of different strontium content on dielectric properties of barium strontium titanate ceramic. *Int. J. Latest Technol. Eng. Manage. Appl. Sci* 6, 75.
2. D Biswas, GS Kathait, P Thapliyal, V Rohilla, S Singh, Temperature dependence of dielectric properties of sodium potassium niobate ceramics for different values of x ($\text{Na}_{1-x}\text{K}_x\text{NbO}_3$). *Ferroelectrics* 526 (1), 168-175.
3. D Biswas, GS Kathait, P Thapliyal, V Rohilla, S Singh, J Negi, Converse piezoelectric properties of K and Na-modified ($\text{Na}_{1-x}\text{K}_x$) NbO_3 lead free ceramics for x = 0.08 and 0.17. *Ferroelectrics* 550 (1), 228-232
4. V Rohilla, GS Kathait, D Biswas, P Thapliyal, B Ruhela, Estimation of heavy metals in some indian black tea leaves by inductively coupled plasma mass spectrometer (ICP-MS) and associated health risks. *Indian journal of agricultural research* 55 (2), 181-186
5. GS Kathait, NS Panwar, P Thapliyal, D Biswas, V Rohilla, S Singh, Sintering effect on electrical properties and morphology of lead-free $\text{Na}_{0.92}\text{K}_{0.08}\text{NbO}_3$ ceramics. *Science of Sintering* 51 (4), 421-428.
6. D Biswas, K Kumar, V Rohilla, GS Kathait, P Thapliyal, AS Bahuguna, Microcontroller based data acquisition system using error reduction technique. *International Journal of Engineering, Science and Technology* 11 (3), 40-48
7. V Rohilla, M Kumar, NS Panwar, Composition dependent structural and dielectric properties of $(\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3)_{1-x}(\text{KNb}_{0.9}\text{Ta}_{0.1}\text{O}_3)_x$ ceramic. *Ceramics International* 49 (24), 40221-40229
8. S Singh, D Biswas, AS Bahuguna, P Thapliyal, V Rohilla, GS Kathait, Composition-Dependent Dielectric and Piezoelectric Properties of $\text{Na}_{1-z}\text{K}_z\text{NbO}_3$ Ceramics. *Indian Journal of Pure & Applied Physics (IJPAP)* 61 (5), 335-342
9. V Rohilla, D Biswas, P Thapliyal, GS Kathait, S Singh, Estimation of some essential, non

essential toxic and toxic elements in some Indian black tea sold in market by 'ICP-MS' and their risk assessment. NISCAIR-CSIR, India

10. S Singh, D Biswas, P Thapliyal, V Rohilla, GS Kathait, NS Panwar, Dielectric and structural properties of double-sintered $(\text{Na}_{1-x}\text{K}_x)\text{NbO}_3$, $(0.460 \leq x \leq 0.485)$ ceramics. *Ceramics International*
11. D Biswas, S Singh, P Thapliyal, V Rohilla, GS Kathait, AS Bahuguna, Impedance Spectroscopy and AC Conductivity Analysis of $(\text{Ba}_{1-k}\text{Ca}_k)(\text{Zr}_{0.1}\text{Ti}_{0.9})\text{O}_3$, $(0.140 \leq k \leq 0.160)$, *Ceramics. ECS Advances* 2 (4), 042001
12. V Rohilla, M Kumar, NS Panwar, D Kumar, R Gupta, Synthesis and Characterization of Calcium Copper Titanate ($\text{CaCu}_3\text{Ti}_4\text{O}_{12}$) Powder as a Brown-Coloured Inorganic Pigment with High Infra-Red Reflectance. *ECS Advances* 2 (3), 032002
13. D Nagpal, A Gupta, V Rohilla, CR Mariappan, A Kumar, where physics meets chemistry meets biology for fundamental soft matter research. *Soft Matter* 19, 9139
14. D Nagpal, A Gupta, V Rohilla, CR Mariappan, A Kumar, Enhanced electrical and magnetic functionality of Ni-Zn-co-doped CoFe_2O_4 rGO nanocomposites. *Soft Matter* 19 (47), 9133-9138
15. R Gupta, A Kumar, V Rohilla, P Kumar, M Kumar, D Kumar, Noise spectroscopy based numerical modelling of chemisorption on SnO_2 surface for CO gas sensing applications. *Micro and Nanostructures* 171, 207423
16. D Biswas, S Singh, P Thapliyal, V Rohilla, GS Kathait, NS Panwar, Investigation on Dielectric and Optical Properties of $\text{Ba}_{1-x}\text{Ca}_x\text{Zr}_{0.1}\text{Ti}_{0.9}\text{O}_3$ ($x = 0.150$) Ferroelectric Ceramics. *J. Mountain Res* 16 (02), 279-286
17. GS Kathait, P Thapliyal, D Biswas, V Rohilla, S Singh, Influence of escaping of Na & K on physical properties in lead-free $\text{Na}_{0.92}\text{K}_{0.08}\text{NbO}_3$ ceramic. *Ferroelectrics* 551 (1), 40-46
18. BR Vishal Rohilla, Don Biswas, Gambheer Singh Kathait, Prashant Thapliyal, Estimation of REEs in Some Selected Green /Organic/ Herbal Tea Available in Indian Market. *International Journal for Research in Applied Science and Engineering*
19. B Ruhela, R Naithani, SC Sati, S Kumar, V Rohilla, Phytochemical Screening And Antioxidant Capacity Of *Berberis asiatica* Root. *J. Mountain Res* Vol. 18(1), (2023), 303-310

In the Proceedings of Conferences:

1. Rohilla, V., Rohilla, R.C., Thapliyal, P., Biswas, D. and Kathait, G.S., 2021, June. Photovoltaic Power System with Battery Backup and Grid-Connection to Reduce Grid Dependency During Peak Demand Hours and Power Cuts. In *Techno-Societal 2020: Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 2* (pp. 393-405). Cham: Springer International Publishing.