Curriculum Vitae

Dr. Alok Singh Kandari

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Name	-	Dr. Alok Singh Kandari
Father's Name	-	Dr. Trilok Singh Kandari
Mother's Name	-	Smt. Shanti Kandari
Date of birth	-	22 July, 1984
Gender	-	Male
Category	-	General
Permanent Address	-	Kandari Bhawan, New Madhi (Chauras) P.O. – Kilkileshwar, Tehri (Garhwal), Uttarakhand.



Academic Details

2013:	Ph.D degree in Science (Physics), Awarded (as per UGC Regulation 2009)
2011:	Completed Pre-PhD. course work in Physics (Secured 70 %, (Grade: A+.) and registered in Ph.D (Physics) in Department of Physic, HNBG University Srinagar Garhwal, Uttarakhand.
2005:	Master of Science in Physics (Electronic and Communication) from HNB Garhwal University, Srinagar, Uttarakhand. Secured 68.62 % , I ST Div .
2003:	Bachelor of Science with Physics, Mathematics and Chemistry as major subject from Govt. (PG) College, Gopeshwar, Uttarakhand. Secured 69.38 % , I ST Div .
2000:	Intermediate (10+2) with Physics, Mathematics, Chemistry and English as major subject from UP Board, GIC Gopeshwar, Uttarakhand. Secured 77.8 % , I ST Div .
1998:	Secondary School Certificate (SSC) from UP Board, GIC Gopeshwar, Uttarakhand Secured 71.8 % , I ST Div .

<u>Title of D. Phil Thesis</u>:

"Electrical and Optical properties of mixed Sodium-Potassium Niobate thin films".

<u>Research Experience:</u> -- 6-year research experience in various Research Project

02 June 2007 to 31 March 2010	 Working as a "Project Fellow" in UGC funded research project entitled "Electrical properties of mixed sodium- potassium niobate thin films".
	2011 – Working as a " Project Assistant Level-II " in DST funded research project entitled "Deposition of Ta_2O_5 - TiO_2 thin films of uniform thick ness for microelectronics applications".
Award	

Award

CSIR Fellowship	- Completed a research project entitled as a Senior Research
(01 April 2011 – 31 March 2014)	Fellow (SRF) of Council of Scientific & Industrial
	Research (Human Resource Development Group) New Delhi

Teaching Experience: -- 10 year (Academic session) teaching experiences

2008-2014	Working (Teaching) as a faculty) in the School of Engineering and Technology,
	H.N.B.G. University Srinagar (Garhwal), Uttarakhand.
2014-2015	Working (Teaching) as a faculty in the Department of Physics, Govt. P.G.
	College, New Tehri (Garhwal), Uttarakhand.
2015-2017	Working (Teaching) as a faculty in the Department of Physics, Govt. P.G.
	College, Uttarkashi (Garhwal), Uttarakhand.
2017-2020	Working (Teaching) as a faculty in the Department of Physics, Govt. P.G.
	College, New Tehri (Garhwal), Uttarakhand.
2020-till date	Working (Teaching) as a faculty in the Department of Physics, P.N.G. Govt.
	P.G. College, Ramnagar, Nainital - Uttarakhand.

Work Experience and skill:

1. Working and handling experience of following "Analytical Instruments" -

- 1. X-RAY DIFFRECTOMETER (Make - PANalytical)
- 2. SCANNING ELECTRON MICROSCOPE (SEM) (Make- M/S Carl Zeiss NTS Ltd., United Kingdom)
- 3. INCA ENERGY 250 MICROANALYSIS SYSTEM (EDS) (Make - M/S Oxford Instruments Nanoanalysis, United Kingdom)
- 4. INDUCTIVE COUPLE MASS SPECTROSCOP WITH LASER ABLATION SYSTEM (ICP-MS)
- (*Make M/S Perkin Elmer Singapore Lte. Ltd., Singapore-139959*) **5. ELLIPSOMETER**
- (Make- M/s SENTECH Instruments GmbH, Germany)
- 6. PE LOOP TRACER WITH PEZOELECTRIC MEASUREMENTS (Make- M/s AixACCT system GmbH, Germany)
- 7. LIQUID NITROGENT PLANT (Make – M/S Stirling Cryogenics & Refrigeration BV, The Netherlands)

- 2. Working and handling experience of following "Measurement Instruments" -
 - 1. LCR METER (for C-V measurement of bulk and thin film sample with various temperature)
 - 2. SOURCE METER (for I-V measurement of bulk and thin film sample)
 - 3. SPECTROMETER (for T% and R% measurement from UV and Visible rang)
- 3. Working and handling experience of following "Sample preparation systems in material science
 - **1. DC SUPPLY VACUUM SYSTEM** (Preparation of thin film from conducting target with DC power supply)
 - 2. **RF SUPPLY VACUUM SYSTEM** (Preparation of thin film from non-conducting target with RF power supply)
 - 3. PROGRAMMABLE (PID) MUFFLE FURNACES
 - 4. PRESSING MACHINE UP TO 200 TON

Computer Skill:

Certificate in Computing (IGNOU)

Membership:

Life time member of "Indian Vacuum Society" (Membership No. LM-844)

Research Publication

- 1. *Alok Singh Kandari*, Aradhana Bhandari, A.A. Bourai, and N.S. Panwar, "Electrical Properties of Na_{1-x}K_xNbO₃ ($0.28 \le x \le 0.40$)", *Ferroelectrics*, 386:139–151, 2009.
- 2. *Alok Singh Kandari*, Karuna Kandari, Vijendra Lingwal, A.A. Bourai, and N.S. Panwar, "Composition Dependent Dielectric Anomaly in $Na_{1-x}K_xNbO_3$, at x = 0.475", *Ferroelectrics*, 393:1–9, 2009.
- 3. *Alok Singh Kandari*, Vijendra Lingwal and N.S. Panwar, "Morphotropic phase boundary in Na_{1-x}K_xNbO₃, near x = 0.32", *Solid State Communications*, 150: 74-77, 2010.
- 4. *Alok Singh Kandari*, Vijendra Lingwal and N.S. Panwar, "Morphotropic Region in Na_{1-x}K_xNbO₃, between x = 0.17 and 0.18", *Ferroelectrics*, 393:18–26, 2010.
- 5. Aradhana Bhandari, *Alok S. Kandar*i, M. K. Agarwal, Vijendra Lingwal and N. S. Panwar, Sintering process dependent dielectric properties of $[Ta_2O_5]_{1-x} [TiO_2]_x$, for the compositions near x = 0.08, *Ferroelectric letters*, : 37, 1-12, 2010.
- Aradhana Bhandari, M. K. Agarwal, *Alok S. Kandar*i, Vijendra Lingwal and N. S. Panwar, "Dielectric Properties of H- Phase [Ta2O5]1-x – [TiO2]x, (0.078 ≤ x ≤ 0.085)", *IJIRST*, : Vol – 1, Issue – 10, 102-108, 2015
- 7. Saklani Sarla, Chandra Subhash and **Kandari Singh Alok**, "Berberis aslatica future based excellent fruit in nutritional profile, antimicrobial and antioxidant ingredients", *Internation Research Journal of Pharmacy (IRJP)*, 2 (12), 213-216, 2011.

- 8. Saklani Sarla, Chandra Subhash and **Kandari Singh Alok**, Nutritional evalution, antimicrobial activity and phytochemical screening of wild edible fruit (carissa opaca)", *Internation Research Journal of Pharmacy (IRJP)*, 2(12), 217-221, 2011.
- V. Lingwal, A. S. Kandari and N. S. Panwar, Optical properties of sodium niobate thin films, NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS, 2016, 7 (4), P. 583– 591
- 10. V. Lingwal, A. S. Kandari and N. S. Panwar, "Temperature Dependance of Dielectric Properties in Doped Provskites", International Journal of Management Technology and Engineering, 8(IX), 797-804, 2018.
- V. Lingwal, A. S. Kandari and N. S. Panwar, Theoretical Investigation of Dielectric Properties of Potassium Mixed Sodium Niobate Crystals, International Journal of Management Technology and Engineering, Vol – 8, Issue – IX, 1793-1793, 2018.

Research paper/Abstract in Conferences/ Seminar:

- 1. N.S.Panwar, A. Kumar, Alok Kandari, B.S Rawat et.al., "Spectrally selective properties of scanning magnetron sputtered TiN-Ag stack(s)", Proceeding of Nation Seminar on RREST, 78, March 2008, Department of Physics, HNBG University Srinagar (Garhwal), Uttarakhand.
- Alok Singh Kandari, Vijendra Lingwal and N. S. Panwar, "Sintering process Dependence of Dielectric Properties of Lead-Free Ferroelectric Na_{1-x}K_xNbO₃, (x = 0.08) Ceramics", National Seminar on Resent Trends in Micro and Macro Physics (NSRTMMO-2011), 12-13 October, 2011, Department of Physics, Govt. P. G. College, Gopeshwar, Uttarakhand.
- **3.** Vijendra Lingwal, **Alok Singh Kandari**, B.P. Bahuguna, Ashish Sharma & Kiran Sharma, "Energy Conservation in Home Appliance and Electricity Safety", (Abstract Volume) National Conference on Resource Management & Its Sustainable Use. 22-23 March, 2013, pp.46, Pt. LMS Govt. P.G. College, Rishikesh, Uttarakhand.
- 4. Aradhana Bhandari, Alok S. Kandari and N. S. Panwar, "Temperature dependence of dielectric properties of H- phase [Ta₂O₅]_{1-x} [TiO₂]_x, (0.078 ≤ x ≤ 0.085)", National Conference on Recent Advances in Material Science (NCRAMS- 13), 26 27 October, 2013, Department of Physics, HNBG University Srinagar (Garhwal), Uttarakhand.
- **5.** Aradhana Bhandari, **Alok S Kandari**, M K Agrawal, Vijendra Lingwal and N S Panwar, "Dielectric Properties of L- Phase [Ta2O5]1-x-TiO2]x, $(x \le 0.1)$ " Elsevier Conference.
- Vijendra Lingwal, Alok Singh Kandari and N. S. Panwar," Optical properties of Sodium Niobate Thin Films", National Seminar on New Horizons in Theoretical and Experimental Physics (NHTEP-2015), 19-20 February, 2015, Department of Physics, Govt. P. G. College, Gopeshwar, Uttarakhand.
- 7. Vijendra Lingwal, Alok Singh Kandari and N. S. Panwar," Theoretical Investigation of Dielectric Properties of Potassium Mixed Sodium Niobate Crystals", 2nd International

Conference on Emerging Trends in Science, Engineering & Technology (ICETSET-2018), 29-30th September, 2018, Mahratta Chamber of Commerce, Indstries and Agriculture, Tilak Road, Pune (India).

8. Prashant Thapliyal, **Alok S. Kandari**, Vijendra Lingwal N. S. Panwar, G. Mohan Rao[•] "Annealing temperature dependent optical properties of $(Ta_2O_5)_{0.965}$ - $(TiO_2)_{0.035}$ thin films", 1st International Conference on Integrated Intelligence Enable Networks & Computing, 05-07 September 2020, Institute of Technology Gopeshwar, Uttarakhand

Conferences/ Seminar/workshop:

- 1. National Seminar on Recent Trends In Renewable Energy Sources & Technologies (RREST) & Workshop On Solar Photovoltaic Systems (26-28 March, 2008), held at Department of Physics, HNBG University Srinagar (Garhwal), Uttarakhand.
- 2. Third International Geo-Hazards Research Symposium (IGRS-2012) (10-14 June, 2012) held at Department of Physics, Badshahithaul Campus, HNBG University Srinagar (Garhwal), Uttarakhand.
- 3. National Training Programme on RET Screen Software for Evolution of Renewable Energy Project held (22 September, 2012) held at Department of Physics, HNBG DAV (PG) College, Dehradun, Uttarakhand.
- 4. National Conference on Resource Management & its Sustainable Use (22-23 March,2013) Held at Pt. LMS Govt. P.G. College, Rishikesh, Uttarakhand.
- 5. National Symposium on Mind, Matter and Mathematics: A Dialogue, (12-14 March 2014), Department of Physics and Mathematics, Badshahithaul Campus, HNBG University & P.G. College New Tehri.
- 6. First International Conference on Radiation Awareness and Detection in Natural environment (RADNET-I), (15-17 June, 2015), held at Department of Physics, Badshahithaul Campus, HNBG University Srinagar (Garhwal), Uttarakhand.

<u>Curriculum Activity :</u>

- 1. NCC 'A', 'B' and 'C' certificate
- 2. Participate in Cricket team at college level and winner of Badminton (Single) tournament at college level.
- 3. Co-ordinate the World Worth Day-2015 programmer at New Tehri Garhwal.

Career Objective:

Sincerity, honesty towards the duties and responsibilities

I hereby declare that all the information furnished above are true and correct to the best of my knowledge and belief.

(Alok Singh Kandari)