CURRICULUM VITAE

NAME : Dr. SANJEEV JAUHARY

FATHER’S NAME : Late R. K. JAUHARY

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DATE OF BIRTH : MAY 20, 1967

MARITAL STATUS : MARRIED

NATIONALITY : INDIAN

PRESENT STATUS : ASSISTANT PROFESSOR

Dept. of Physics, D.A-V. College, Kanpur

ADMINISTRATIVE POSITION : In Charge of Electronics Dept., DAV College, KANPUR

**Title of Ph.D. Thesis:**

LIQUID STRUCTURE AND PHASE TRANSITION PROPERTIES OF ASSOCIATED ORGANIC LIQUID FROM DIELECTRIC AND ULTRASONIC MEASUREMENTS

MEMBER OF ACADEMIC BODIES : Life member Indian Science Congress Association

: Life member Indian Association of Physics Teachers

: Life member Indian Liquid Crystal Society.

FIELD OF RESEARCH : Soft Condensed Material, Dielectric and Ultrasonic

Measurements.

**WORKSHOP AND PROJECTS**:

(1) Electronics projects in M. Sc. and setup experiments in M.Sc. Laboratory. The project fabricated was judged to be the best in the college Lab.

(2) IAPT Workshop

(3) Advanced Materials and instrumentation-Based Engineering (AMIBE-2021)

(4) National Lecture Series in Physics (N LSP- 2022)

(IAPT RC-4- Uttar Pradesh)

**Career Advancement Scheme:** (1) Orientation Program :HRDC Gwalior

(2) Advanced Research Methodology: Tools and Techniques (RC) – Ramanujan college University of Delhi

(3) Physics: Ramanujan college University of Delhi (RC)

(4) Teacher Education (Open to all): HRDC A.M.U. Aligarh (RC)

(5) FDP

(i) Fundamentals and Applications of Photonic crystal s and Meta Materials.

(ii) ICT Enabled -Teaching and Learning for school teachers-(Ramanujan college University of Delhi)

(iii) Academic Research writing - (Ramanujan college University of Delhi)

(iv) Developing Moocs: Concepts and Tools -(Ramanujan college University of Delhi)

(v) Soft Skills:-(Ramanujan college University of Delhi)

**RESEARCH EXPERIENCE** : Twenty-Three years.

**TEACHING EXPERIENCE** : More Than Twenty-Three years **(U G.& P. G)**

**COLLABORATORS:**

IN INDIA Prof. G.K. Johri, Dr. D. C. Dwivedi, Dr. C.K. Srivastava, Dr. Manoj Johri, Dr. D. C. Gupta, Dr. Jahan Singh. Dr Sanjay Kumar, Dr. Nirupama Saxena, Dr. Saumya Saxena, Sri Kuldeep Srivastava, Dr Rajesh Sharma, Dr Akhilesh Tiwari., Dr. Abhay Saxena, Dr. D.P. Singh, Dr. Harihar Poudyal.

**Educational Activities**

1. sMember Board of Studies for Unified Syllabus in B.Sc. Electronics and Instrumentation CSJM University Kanpur.
2. Member of Organizing Committee in National Seminar on Nano Science and Nano Bio Technology (2017) Organized by Deptt. Of Physics D.A-V. College Kanpur.

**College activities other than academics**

1. In charge R.U.S.A Action Plan (2013-18) Dept. Of Electronics (SFC) D.A-V. College Kanpur.

2.Member of National Library and Information services (N-LIST) cell.

3.Admission committee (co-convener) (SFC) D.A-V. College Kanpur.

**LIST OF RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS INTERNATIONAL PROCEEDINGS NATIONAL JOURNA**L

1. Dielectric properties of Organic Liquids AND Liquid Crystals in Solutions in Non-Polar Solvents.

M. Johri, S. Johri, D.C. Dwivedi and G. K. Johri

IEEE Transactions on Dielectric and Electrical Insulations, Conference Record of the 10th International Conference on Conduction and Breakdown in Dielectric Liquids, held at Grenoble, France, September 10 - 14, 1990.

1. Study of Dielectric Relaxation in 2,4 Dimethyl substituted Pyridine using Microwave Cavity Spectrometer and Time Domain reflectometer.

G. K Johri, R. Sharma, M. Johri, **S. Johri**, and S. Saxena

Proceedings of 14th International conference on Dielectric Liquids (**ICDL 2002),**

Graz Austria Page 354-357 **ISBN 0-7803-7350-2** available at IEEE Xplore library.

1. Experimental study of organic liquids in solutions in polar solvents using ultrasonic technique

G.K. Johri, C.K. Srivastava, **Manoj Johri**, D.C. Dwivedi, Sanjay Kumar, D.C. Gupta, **Sanjeev Johri,** Saumya Saxena and Rajesh Sharma

Journal of Pure and Applied Ultrasonic vol. **24** No 2 Page 61, 2002

Published by: Ultrasonics Society of India **ISSN: 0256-4637**

**U.G.C. Notified List S. No.- 22517**

1. Dielectric Response in Dimethyl Substituted Pyridines Using Microwave Cavity Spectrometer Gajendra Kumar Johri, Manoj Johri, Rajesh Sharma Sanjeev **Johri** Saumya Saxena Published I.E.E.E. Transactions on Dielectrics and Electrical Insulation **2003 vol** no. 1 pp-96-101 **U.G.C. Notified list no. 1520 0 ISSN NO. 1070-9878 Impact factor 2.931**
2. Measurement of Permittivity and Dielectric Loss in 2,4-Dimethyl substituted pyridine using Microwave Cavity Spectrometer and Time Domain Reflectometer.

Saumya . Saxena, Rajesh. Sharma, Manoj. Johri, **Sanjeev Johri** and Gajendra k Johri

IEEE Transactions on Dielectrics and Electrical Insulation

Vol-II no 1 Page 174-177.feb: 2004 **IF 2.931**, IEEE Dielectrics and electric **Insulation ISSN: 1070-9878**

**U.G.C. Notified List S.No.- 15200**

1. Dielectric Relaxation Mechanism in 4’-n-Heptyl-4- Biphenyl and 4 cyano-4’- n Alkyl biphenyl Nematic Liquid Crystal at 9G Hz Using Microwave Cavity Spectrometer Manoj Johri, Abhay Saxena S. Johri and D.P. Singh

Published by Journal Purvanchal Academy of Sciences jaunpur India vol 15 (physical science 2009) **ISSN; -0972-3498**

1. Microwave Cavity Technique to Study the Dielectric Response in 4’-n-Heptyl-4-biphenyl Nematic Liquid Crystal at 20.900GHZ and 29.867 GHz

Dharmendra Pratap Singh, Saumya Saxena, Sanjeev Johri Harihar Poudyal and Manoj Johri

Journal of Measurement doi.org/10.1016/j Measurement2010. 11.020, **ISSN NO. 0263 2241/s Impact factor 3.927 U.G.C. Notified List S.No 25451**

1. Dielectric relaxation studies in 5CB nematic liquid crystal at 9GHz under the influence of external magnetic field using microwave cavity spectrometer.

Manoj Johri, Abhay Saxena, **S.Johri** and D.P. Singh

Published by Pramana – Journal of Physics vol 76 No.4 621-628 April (2011**) IF 2.219**

Indian Academy of Science **ISSN: 0304-4289, U.G.C. Notified List S.No 30170**

1. Study of the Dielectric Response and Thermo-dynamical properties of Pentyl Cyano Biphenyl (PCB) Liquid crystal using Microwave Cavity Spectrometer as Probe.

Manoj Johri ,Akhilesh Tiwari Saumya Saxena ,**Sanjeev Johri**, Dinesh Kumar, Dharmendra Pratap Singh

Journal of Measurementdoi.org/10.1016 Measurement2020.108156, **ISSN NO. 0263-**

**2241/C, Impact factor 3.927, U.G.C. Notified List S.No 25451**

1. Dielectric Study of Cholesteryl Oleyl Carbonate Liquid Crystal for Temperature Variations at 9.0 GHz Using Cavity Perturbation Technique

Manoj Johri, Saumya Saxena, **Sanjeev Johri**, and Rajesh Sharma

Published by: SPRINGER NATURE f Electronics Materials **(JEMS)doi.1007//s11664-022-9934-8 -2022, ISSN No; o3615235-1543186x Impact factor 2.047 U.G.C. Notified List S.No**

1. Temperature Dependence of Dielectric Properties of Cholesteric Oleyl Carbonate Liquid Crystal at 20.9GHZ

Manoj Johri and **Sanjeev Johri**, Saumya Saxena Rajesh Sharma

IEEE Transactions on Dielectrics and Electrical Insulation(communicated) **U.G.C. Notified list no. 1520 0 Impact factor :2.931**

12 Volume Dependence Study of Dielectric Properties of Nematic Liquid Crystal at

Microwave Frequency.

Saumya Saxena, **Sanjeev Johri**, Manoj Johri and Rajesh Sharma

9th EE UP Section conference on Electrical, Computer and Electronics 2-4 December 2022-IIIT Allahabad Sponsored by UPCON, IEEE UP Section (INDIA) (communicated

**Papers Presented in National seminar**

1. On the calculation of Dielectric Properties of Cholesteryl Oleate Liquid Crystal.

G.K. Johri, D.C. Dwivedi**, S. Johri**, M. Johri and Nirupama Saxena

62nd Annual Session of National Academy of Sciences Udaipur, Feb. 1993.

1. The study of Nematic Liquid Crystal using Microwave Spectrometer

G. K Johri, M. Johri, **S. Johri** K. Srivastava

Presented at 7th National Seminar on Liquid Crystal at Mangalore University 11-13(1999)

1. New Methodology of Analysis for Ultrasonic Velocity Data for 2-4, 2-6, 3-4 And 3-5 Lutidines

G.K. Johri**,** C.K. Srivastava, Jahan Singh, Manoj Johri, **Sanjeev Johri**, Kuldeep Srivastava and Saumya Saxena

Presented in Annual Session of National Academy of Sciences 2000 held at Allahabad.

1. Ultrasonic Measurement of Alcohols and Amines in Pure states and their solutions in polar organic solvent

G.K. Johri, D.C. Dwivedi, Sanjay Kumar, M\_Johri, D.C. Gupta and **S. Johri**

Publication year 2001, Pages 95-98

Proceedings of 10th National Symposium on Ultrasonics March 15, -16, 2001 Published by Ultrasonic society of India.

1. Ultrasonic Measurements for Mono-Ethano lamine at different temperature

G.K. Johri, Sanjeev **Johri** and Manoj Johri

Presented in national seminar on Challenges of physics in New Millennium D.A-V College 13-14 Dec2002

1. Theoretical study of molecular interaction potential in liquids and gases

**Sanjeev Johri**, Akhilesh Tiwari and Manoj Johri

Presented in National Seminar on “Emerging Trends in Physics” in 21st Century held at dept. of Physics, D.B.S. College, Kanpur, India 10Dec. 2006.

1. Optical properties, tuning of photonic band gap material

Manoj Johri, **Sanjeev Johri**, Saumya \*, and Rajeev Kumar, Deptt. Of Physics, DAV College

Kanpur U.P.

Presented at 17th Annual Conference of PAS, Feb 19-20 ,208 K.S. Saket P.G. College,

Ayodhya, Faizabad, U.P.

1. Dielectric Relaxation Mechanism in IMCIEPOPB and IBCIEPOPB Ferroelectric Liquid Crystals at the Middle Temperatures of Different Smectic Phases

Manoj Johri, Saumya Saxena, **Sanjeev Johri** and D.P. Singh

16th National Conference on Liquid Crystals Oct 26-28,2009 held at University of Lucknow, Lucknow

1. Microwave Cavity Technique to Study the Dielectric Response in 4-n- heptyl-4 biphenyl Nematic Liquid Crystals at 20 .9 GHz and 29.867 GHz

Manoj Johri, **S. Johri**, Saumya Saxena and D.P. Singh

3rd National Seminar on “Spectroscopy Its Relevance to Various Fields of Science held at Dayanand Girls (P.G) College, Kanpur Nov. 19-20, 2009

1. The Dielectric Relaxation Mechanism in Ferro electric liquid crystal of large spontaneous polarization

Manoj Johri Saumya Saxena Sanjeev Johri

Presented in national Seminar on Recent Advances in physics held at Deptt of Physics D.A-V College Kanpur ,2009

1. Microwave Cavity Technique to study the Dielectric Response in 4n-Heptyl-4-Biphenyl

Nematic Liquid Crystal at 20.900GHz. and 29.867GHz.

Dharmendra Pratap Singh, Saumya Saxena, **Sanjeev Johri**, Harihar Poudyal and Manoj Johri

Presented at 17 National Conference on Liquid Crystals held at VNGSU, Surat, Gujrat Nov

.15-17, 2010

1. Dielectric Study of Liquid Crystal at Microwave frequencies

Dharmendra Pratap Singh Saumya Saxena Sanjeev **Johri**

Presented in national seminar contribution of material Science to word Today held on at Deptt of Physics D.B. S college Kanpur (C.S.J.M University -18-19 -2011

1. Study of the dielectric response and thermodynamical properties of pentyl cyano diphenyl(5CB) liquid crystal using a resonant microwave cavity as a probe.

Dharmendra P. Singh, Manoj Johri, Saumya Saxena, **Sanjeev Johri**, Abhay S. Pandey and Ravindra Dhar

21 St National Conference on Liquid Crystals NCLC- 2014 November 10-12,2014 Department of Physics Vikram Jit Singh Santana Dharma College, C.S.J.M. University, Kanpur-208002