CURRICULUM VITAE

NAME : **Dr. Manoj Johri**

FATHER'S NAME : Late Prof. G.K. JOHRI

ADDRESS : 117/Q/719 FLAT No.302, Sarojini Apartment, Sharda Nagar, Kanpur, (U.P.) INDIA

PHONE NO : +91-9839283691(mob), 2305466 (O)
E-mail: **mjohri_knp@yahoo.co.in**

DATE OF BIRTH : January 1, 1968

MARITAL STATUS : Married

NATIONALITY : Indian

PRESENT STATUS : **Professor**
Department of Physics, D.A-V College, Kanpur

ADMINISTRATIVE POSITION : **Director** (D.V.S – C.A.S.T),
1. Vocational and Professional Courses
2. Department of Self-Finance, D.A-V. College, Kanpur.

ACADEMIC QUALIFICATIONS:

DEGREE	YEAR	BOARD / UNIVERSITY	DIVISION & MARKS	SUBJECTS
HIGH SCHOOL	1983	U.P.BOARD, ALLAHABAD	**FIRST** 68.6%	HINDI, ENGLISH, MATHS BIOLOGY, SCIENCE **DISTINCTION IN MATHS**
INTERMEDIATE	1985	U.P.BOARD, ALLAHABAD	**FIRST** 65.0%	HINDI, ENGLISH, MATHS PHYSICS, CHEMISTRY **DISTINCTION IN PHYSICS**

B.Sc.	1987	KANPUR UNIVERSITY KANPUR	**SECOND** 56.0%	PHYSICS, MATHS, ELECTRONICS, **DISTINCTION IN ELECTRONICS**
M. Sc.	1989	KANPUR UNIVERSITY KANPUR	**FIRST** 75.0%	PHYSICS(ELECTRONICS) **FIRST POSITION IN KANPUR UNIVERSITY AMONG (Physics) STUDENTS**
Ph.D.	1992	KANPUR UNIVERSITY KANPUR		PHYSICS

TITLE OF Ph.D. THESIS:

A STUDY OF MOLECULAR COLLISIONAL INTERACTION & CROSS-SECTIONS

HONORS & AWARDS:

1. Obtained **First position and Gold Medal** in 1989 from Kanpur University.

2. Junior Associate of the Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, from 1 January 2003 until 31 December 2010, Governed by UNESCO as Category Institute

MEMBER OF ACADEMIC SOCIETIES:

1. Active Member of the NEWYORK ACADEMY OF SCIENCE, U.S.A.
2. Life Member, Indian Science Congress Association
3. Life Member, Indian Association of Physics Teachers
4. Life Member, Indian Liquid Crystal Society.
5. Life Member, National Academy of Science, Allahabad.

FIELD OF RESEARCH:

1. Dielectric Response and Non Resonant Absorption Study in Liquid Crystals and Organic Liquids.
2. Spectral Line shape (Molecular Dynamics) Intermolecular Forces and Resonant Absorption Study.
3. Molecular Structure Study in Excited Vibration States, Photonic Crystal, Left Handed and Meta Material.

SUMMER SCHOOL COURSE, 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. Summer Project at Nuclear Science Centre, New Delhi, (July 15-27, 1991)
3. Research Project under the Pre-Doctoral **Robert A Welch Foundation Fellowships** at the Dept. of Physics, University of North Texas, U.S.A.
4. Visited IUCAA, Pune, India from June 19 to June 30, 1996, under Visitor program of the center.
5. Attended First Refresher course on Recent Trends in Physics, Udai Pratap College (Autonomous Institution), Varanasi, U.P., India, from Dec. 26, 1996 to Jan. 9, 1997.
6. Attended workshop on Modeling, Design and Characterization of Microelectronic Devices from March 25-26, 2000 at University of Delhi, South Campus, New Delhi.
7. Participated in **UNESCO Regional Training Course for University/College Teachers in "Fibre Optics**" from Feb, 12-24, 2001 at I.I.T. Kharagpur.
8. Participated in Technical Meeting on "Analytical Methods for Characterization of Hot Particles and their Impact on Environment, 6-10 March 6-10, 2006, Trieste, Italy.
9. Participated in Spring School on Super String Theory and Related Topics held at Abdus Salam, ICTP, Trieste, Italy, 27th March to 4th April, 2006.
10. Participated in XXIV Annual Convention of IAPT held at C.S.J.M. University, Kanpur from October 10-12, 2009.
11. "School on Synchrotron and Free-Electron-Laser Sources and their Multidisciplinary Applications" held at Abdus Salam ICTP, Trieste, Italy, 26 April-7 May 2010.

12. "Workshop on Entrepreneurship for Physicists and Engineers from Developing Countries" held at Abdus Salam ICTP, Trieste Italy 3-7 may 2010.
13. "Spring College on Computational Nanoscience" held at Abdus Salam, ICTP, Trieste, Italy, 17-28 May 2010.

ADMINISTRATIVE TRAINING:

Participated in training programme on Right to Information Act 2005, held at Deendayal Upadhyay State Institute of Rural Development, Bakshi-ka- Talab, Lucknow, U.P., 27-29 March, 2008.

FOREIGN VISIT:

1. Physics Department, **University of North Texas, USA** from November 26, 1989 to February 2, 1991, **Robert A- Welch pre-doctoral Fellow and Teaching Assistant.**
2. Department of Electronic Engineering, **OSAKA University, Japan** as **Guest Scientist** from June 21, 2000 to July 21, 2000.
3. Department of Electrical Engineering, **Nagoya University, Nagoya, Japan** from 1- 7 June 2003.
4. **Abdus Salam, ICTP, Trieste, Italy**, March1st, APRL15, 2006 as Junior Associate
5. **Abdus Salam ICTP, Trieste, Italy**, March 20-June15, 2010 as Junior Associate

CAREER ADVANCEMENT SCHEME:

1. Approved Ph.D. Supervisor in Physics, CSJM University, Kanpur.
2. Approved Supervisor in Physics of Alagappa University, Karaikudi, Tamilnadu.
3. Participated in U.G.C. Sponsored Refresher Course in Physics, Lucknow University, Nov 8th to 28th 2005, obtained Grade A and scored 75 %

RESEARCH EXPERIENCE: More than 29 years

TEACHING EXPERIENCE: More than 30 years

RESEARCH EXPERIENCE: More than 29 years

Total No. of Papers Published	**:**	**73**
International Journal	**:**	**40**
International Proceedings	**:**	**17**
National Journals	**:**	**09**
National Proceedings	**:**	**05**
Internal Report	**:**	**02**
No. of Papers Presented	**:**	**74 (Seventy Four)**
International Conferences	**:**	**21**
National Conferences	**:**	**53**

COLLABORATORS:

IN INDIA Dr. D.C. Dwivedi, Dr. Dinesh Saxena, Dr.Shashi Kant Pathak, Dr, Nirupama Saxena, Dr. Pankaj Gupta (Kanpur University), Dr. R.P. Rishiswar (University of Delhi), Prof. Suresh Mehrotra, (Dr. Bhim Rao Ambedkar, Marathwada University) Prof. G.K. Johri, Dr. Saumya Saxena, Dr. D.C. Gupta, Dr. Akhilesh Tiwari, Dr. Sanjeev Johri, Mr. Kuldeep Srivastava, Dr. Rajesh Sharma and Prof. T. Bezboruah (Gauhati university), Dr.D.P.Singh and Dr.Abhay Saxena Prof. Ravindradhar (University of Allahabad)

ABROAD Prof. James A. Roberts, Prof. Paolo Grigolini, Dr. Jamal, Hajsaleh (University of North Texas, Denton Tx. USA), Dr. Mohammed Al. Share (Jordan), Prof. Katsumi Yoshino (Japan), Dr. Masanori Ozaki (Japan), Prof. Y.A. Ahmed (Nigeria), Hamandjoda. O (Cameroon), Harihar Paudyal and Narayan Prasad Adhikari (Nepal).

Ph.D. THESIS SUPERVISED: 3 (Three)

1. Dr. Akhilesh Tiwari
2. Dr. Rajesh Sharma
3. Dr. D.P. Singh

M. Phil. THESIS SUPERVISED: 1 (One), Mr. Abhay Saxena

M. Sc. THESIS SUPERVISED: More than 50

EDUCATIONAL ACTIVITIES RELEVANT TO NATIONAL DEVELOPMENT:

1. Introduced vocational courses in B.Sc., sponsored by the University Grants Commission, New Delhi, India :-

(i) Instrumentation (ii) Computer Application

2. Introduced Courses given below :-

   (a) Postgraduate Level
   - (i) M.Sc. Electronics
   - (ii) M.Sc. Biochemistry
   - (iii) M.Sc. Microbiology
   - (iv) M.A. (Education)

   (b) Postgraduate Diploma Courses
   - (i) P.G. Diploma in Computer Application

   (c) Graduate Level
   - (i) B.Sc. Biotechnology
   - (ii) B.Sc. Industrial Microbiology
   - (iii) B.Sc. Information Technology
   - (iv) B.A.
   - (v) B.Com.

3. Introduced B. Ed. at D.A-V. College, Kanpur under Self Finance Scheme

4. Introduced Career Oriented Courses sponsored by U.G.C.-2006 till date.

5. Active Association and Consultant Adviser in UGC Scheme of Innovative Instrumental
   Techniques and their Application

6. Member Board of Studies for Unified Syllabus in B.Sc. Electronics and Instrumentation

7. Member Board of Studies for Restructuring M.Sc. (Electronics) Syllabus.

8. Coordinator of National Seminar on "**Nano Science and Nano Biotechnology"** Sponsored by Department of Higher Education Government of Uttar Pradesh, Lucknow, Feb. 25-26, 2017

COLLEGE ACTIVITIES OTHER THAN ACADEMICS:

1. Professor Incharge U.G.C. Cell, 2008 till date.
2. Member NAAC Coordination Committee-2007.
3. Member IQAC, 2010-2017.
4. Member Proctorial Board, 2005-2010.
5. Coordinator/Nodal Officer R.U.S.A., 2013 till date.
6. Member Election Committee for Students Union.
7. Senior Superintendent, University Semester Examination
8. Nodal Officer, D.C.F., AISHE (Continued)
9. Member U.G.C. Planning Board, 2014 till date.

CO-ORDINATOR/INCHARGE :-

Incharge	Coordinator	Year
Department of Electronics		1999-2019
	Department of Instrumentation	1999-2015
	Department of Biochemistry	1999-2003
	PG Diploma in Microwave and Communication	1999-2000
	PG Diploma in Solid State Devices	1999-2005
	PG Diploma in Computer Application	1999-2003
	Department of Microbiology	1999-2003
	Environmental Physics	1999-2000
	Industrial Chemistry	1999-2000
	Electronic Equipment Maintenance	1999-2000
	Electrical Equipment Maintenance	1999-2000

Teaching Position:-

Position	Year
Lecturer	1991-2000
Reader	2000-2006
Associate Professor	2006-2021
Professor	2021-Contd.

LIST OF RESEARCH PAPERS PUBLISHED

A. PUBLISHED IN REFEREED JOURNALS

INTERNATIONAL JOURNALS:

1. A Theoretical Model for Determining Oscillator Strength Using a Non-Spherical Molecular Cavity and Measurement of the He-Ne Laser Light Absorption Coefficient in Solutions.

   M. Johri, G.K. Johri and J.A. Roberts
   Physics, Chemistry Liquid 1991, 24, 71-77, IF: 1.915
   Published by: Taylor and Francis, ISSN: 0031-0104 (Print) 1029-0451(Online)
   U.G.C. Notified List S. No.- **29531**

2. Determination of Effective Potentials for Non-Polar Liquids Using the Continuum Dielectric Model.

   M. Johri, G.K. Johri and J.A. Roberts
   Physics, Chemistry Liquid 1991, 24, 71-77, IF: 1.915
   Published by: Taylor and Francis, ISSN: 0031-0104 (Print) 1029-0451 (Online)
   U.G.C. Notified List S. No.- **29531**

3. Dielectric Response of Select Ionic Solutions using a Loaded Microwave Cavity Operating Near 9,21 and 29 GHz as a probe.

   G.K. Johri, **M. Johri** and J.A. Roberts
   Jr. of Microwave Power and Electromagnetic Energy, 1991, 26, 81-89, IF: 1.325
   Published by: International Microwave Power Institute, ISSN 0832- 7823
   U.G.C. Notified List S. No.- **21676**

4. An Experimental Study of Collision Broadening Rotational Spectral Lines 13CH13C15N in the ground and nv =1 and 2 Vibrationally Excited State at Microwave Frequencies.

   J. Hajsaleh, M.Al. Share, G.K. Johri, **M. Johri** and J.A. Roberts
   J. Chem. Phy. 96 No. (5) 1992, 3416- 3421, IF: 3.488
   Published by: American Institute of Physics,
   ISSN: 0021 – 9606 E-ISSN: 1089-7690
   U.G.C. Notified List S. No.- **19611**

5. Dielectric Response and Phase Transition studies of P-Azoxy Anisol and 1-1 Diacetyl Ferocene in pure and Binary Mixtures

   G.K. Johri, **M. Johri**, Nirupama Saxena and J.A. Roberts
   Mol. Mat., 1995 05, 63-67.

Published by: OPA Amsterdam B.V. Published under license by Gordon and Breach Science Publishers SA Printed in the U.S.A.

6. An Experimental Study of Acoustic Cavitation and Metal Water Interface.

   G.K. Johri, A. Saxena, **M. Johri** and G. Iernetti
   Acoustic Letters 21, No. 6, 1997
   Published by: Parjamon Information Service, U.K., ISSN: 0140 – 1599
   U.G.C. Notified List S.No.- **481**

7. An Experimental Study of Acoustic Cavitation and Metal–Water Interface

   G.K. Johri, A. Saxena, **M. Johri** and G. Iernetti
   Acoustics Letters 21 (1997) 116-119
   Published by: Parjamon Information Service, U.K., ISSN: 0140 – 1599
   U.G.C. Notified List S. No.- **481**

8. A New Relation for the Study of Molecular Interaction in Organic Liquids Influenced by an Ultrasonic Field.

   Saumya Johri, **M. Johri** and G.K. Johri
   Acoustics Letters 22 (1998) 26-29.
   Published by: Parjamon Information Service, U.K., ISSN: 0140 – 1599
   U.G.C. Notified List S. No. - **481**

9. The Study of Molecular Interactions in Liquids Using Temperature Variation of Ultrasonic Velocity

   G.K. Johri, J. Singh, **M. Johri** and Saumya Johri
   Physics and Chemistry of Liquids, 38 (2000), 509-519, IF: 1.915
   Published by: Taylor and Francis, ISSN: 0031-0104 (Print) 1029-0451 (Online)
   U.G.C. Notified List S. No. - **29531**

10. Theoretical Study of Molecular Collisions and Microwave Line Width

    G.K.Johri, P. Gupta and **M. Johri**
    Journal of Quantitative Spectroscopy and Radiative Transfer, 66 (2000), 215-221, IF: 2.468
    Published by: Elsevier, ISSN: 0022- 4073
    U.G.C. Notified List S. No. - **22529**

11. The Effect of Pulse Parameters on the Electrical Double Layer Influenced by a High Intensity Ultrasonic Field

    A. Saxena, **M. Johri** and G. Iernetti
    Acoustic Letters, Aug. 2000. IF: 2.639

Published by: Parjamon Information Service, U.K., ISSN: 0140 – 1599
U.G.C. Notified List S. No. - **481**

12. Sonoluminscence Thresholds of Metal as a Function of Melting Point Temperature and Pulse Parameters

    G.K. Johri, **M. Johri** and Deepa Singh
    Acoustics Letters, 24, No 4, 2000, IF: 2.639
    Published by: Parjamon Information Service, U.K., ISSN: 0140 – 1599
    U.G.C. Notified List S. No. - **481**

13. Metal Water Interface Influenced by Acoustic Cavitation

    G.K. Johri, D. Singh and **M. Johri**
    Acoustic Letters 24, No. 6, 2000, IF: 2.639
    Published by: Parjamon Information Service, U.K., ISSN: 0140 – 1599
    U.G.C. Notified List S. No. - **481**

14. Dielectric and Phase Transition studies of 1MC1EPOPB Ferroelectric Liquid Crystal

    G.K. Johri, Kuldeep Srivastava, **Manoj Johri**, Masonari Ozaki and Katsumi Yoshino
    Molecular Crystals and Liquid Crystals, 36, 673-681, 2001, IF: 0.896
    Published by: Taylor and Francis, U.S.A., ISSN: 1542-1406
    U.G.C. Notified List S. No. - **26447**

15. A Brief Report on Photonic Materials and Calculations using the Mechanism of Strong Localization of Light

    G.K. Johri, **M. Johri**, A. Tiwari, R. Sharma and Katsumi Yoshino
    Molecular Crystals Liquid Crystals, 368, 359-367, 2001, IF: 0.896
    Published by: Taylor and Francis, U.S.A., ISSN: 1542-1406
    U.G.C. Notified List S. No. - **26447**

16. Experimental Study of Dielectric Relaxation in 4 cyano-4-n- Hexyls Biphenyl Nomadic Liquid Crystal

    G.K. Johri, **Manoj Johri**, J.A. Roberts and Katsumi Yoshino
    Molecular Crystals Liquid Crystals, 367, 711-717, 2001, IF: 0.896
    Published by: Taylor and Francis, U.S.A., ISSN: 1542-1406
    U.G.C. Notified List S. No. - **26447**

17. Dielectric and phase Transition studies of IMCIEPOPB Ferroelectric Liquid Crystal

    G.K. Johri, Kuldeep Srivastava, **Manoj Johri**, Masonari Ozoki and Katsumi Yoshino
    Molecular Crystals Liquid Crystals, 366, 673-681, 2001, IF: 0.896

Published by: Taylor and Francis, U.S.A., ISSN: 1542-1406
U.G.C. Notified List S. No. - **26447**

18. Theoretical study of temperature tuning and anisotropy of liquid crystal infiltrated synthetic opal as photonic crystal

    Gajendra K. Johri, Akhilesh Tiwari, **Manoj Johri** and Katsumi Yoshino
    Japanese Journal of Applied Physics, 40, Part 1, No.7, 4565-4569, 2001, IF: 1.48
    Published by: Japan Society of Applied Physics,
    ISSN: 0021-4922 (Print) 1347&4065(web)
    U.G.C. Notified List S. No. – **18518**

19. Study of the effect of the temperature and magnetic field variation on the dielectric properties of organic liquids using a microwave cavity spectrometer

    G.K. Johri, Rajesh Sharma, Akhilesh Tiwari, **M. Johri**, Saumya Saxena
    and James A. Roberts
    Physics and Chemistry of Liquids, 39, 711-722. 2001, IF: 1.931
    Published by: Taylor and Francis, ISSN: 0031-0104 (Print) 1029-0451 (Online)
    U.G.C. Notified List S.No.-**29531**

20. Existence of a photonic band gap and underlying physical processes

    G.K. Johri, Akhilesh Tiwari, Saumya Saxena and **Manoj Johri**
    Modern Physics Letters B, 15 No 16, 529-534, 2001, IF: 0.512
    Published by: World Scientific, ISSN: 0217-9849, ISSN: 1793-6640 (Online)
    U.G.C. Notified List S.No.-**26390**

21. Study of the Dielectric Response of Aqueous Solutions of Copper Sulphate Using Microwave Cavity Spectrometer

    G. K. Johri, D.C. Gupta, **M. Johri** and J.A. Roberts
    Physics and Chemistry of Liquids, 40(1) 1-7. 2002, IF: 1.931
    Published by: Taylor and Francis, ISSN: 0031-0104 (Print) 1029-0451 (Online)
    U.G.C. Notified List S.No.-**29531**

22. Optimal size for the Nan crystalline semiconductor and effective component in the quantum confinement model

    G.K. Johri, Rajesh Sharma, **Manoj Johri**, Saumya Saxena, and Katsumi Yoshino
    Modern Physics Letter B, 16, No 9, 345-349, 2002, IF: 1.948
    Published by: World Scientific, ISSN: 0217-984, ISSN: 1793-6640 (Online)
    U.G.C. Notified List S. No.- **26390**

23. Measurement of the Intensity of Somoluminscence, Subharmonic generation and sound emission using pulsed ultrasonic technique

G.K. Johri, Deepa Singh, **Manoj Johri**, Saumya Saxena, Glauco Iemetti, Nikolai Dezhnov and Katsumi Yoshino
Japanese Journal of Applied Physics, 41, 5329-5331, 2002, IF: 1.48
Published by: Japan Society of Applied Physics, ISSN: 0021-4922(Print)
1347&4065(web)
U.G.C. Notified List S.No.-**18518**

24. Dielectric and Calorimetric studies on 1BC1EPOPB Ferroelectric Liquid Crystal having a large spontaneous Polarization.
G. K. Johri, K. Srivastava, **M. Johri**, M. Ozoki and K. Yoshino
Phase Transitions, 76 No 12, 999-1005, 2003, ISSN: 0141-1595(Print)
1029-0338 (Online)
U.G.C. Notified List S.No.-**29329**

25. Dielectric response in Dimethyl Substituted Pyridines using Microwave Cavity Spectrometer

G.K. Johri, Rajesh Sharma and **M. Johri**
IEEE Transactions on Dielectric and Electric Insulation, 10 No 1, pp 96-101, 2003
IF: 2.931
Published by: IEEE Dielectrics and Electric Insulation, ISSN: 1070-9878
U.G.C. Notified List S. No. – **15200**

26. Measurement of permittivity and dielectric loss in 2, 4-Dimethyl substituted pyridine using Microwave Cavity Spectrometer and Time Domain Reflectometer

S. Saxena, R. Sharma, **M. Johri**, S. Johri and G.K. Johri
IEEE Transactions on Dielectric and Electrical Insulations, II No 1, 174-178, 2004
IF: 2.931
Published by: IEEE Dielectrics and Electric Insulation, ISSN: 1070-9878
U.G.C. Notified List S. No. - **15200**

27. Measurement of Dielectric response of 1MC1EPOPB and 1BC1EPOPB Ferroelectric Liquid Crystal

K. Yoshino, M. Ozaki, K. Srivastava, **M. Johri** and G.K. Johri
IEEE transaction on Dielectrics and Electrical Insulations, II No 1, 179-183, 2004
IF: 2.931
Published by: IEEE Dielectrics and Electric Insulation, ISSN: 1070-9878
U.G.C. Notified List S.No.-**15200**

28. Dielectric Material as Photonic crystal and Formulations of Lamb Shift using Anisotropic model,

G.K. Johri, **M. Johri**, A. Tiwari and K. Yoshino

IEEE Transaction on Dielectric and Electrical Insulations, 11(1), 184-189, 2004
IF: 2.931
Published by: IEEE Dielectrics and Electric Insulation, ISSN: 1070-9878
U.G.C. Notified List S. No. **15200**

29. Mechanism of Photonic Band Gap, Optical Properties, Tuning and Application

    Akhilesh Tiwari and **Manoj Johri**
    ICTP, Preprint IC/2006/024
    Published by: UNESCO, IAEA & ICTP
    Available at: http//www.ictp.it/pub.of governed by UNESCO Category 1 Institute

30. Photonic Band Gap Materials: Technology, Application and Challenges

    M. Johri, Y.A. Ahmed and T. Bezboruah
    ICTP, Preprint IC/2006/025,
    Published by: UNESCO, IAEA & ICTP
    Available at: http//www.ictp.it/pub.off: governed by UNESCO Category 1 Institute

31. The Low Power Miniature Neutron Source Reactors: Design, Safety and Applications

    Y.A. Ahmed, I.O.B. Ewa, I. M. Umar, T. Bezboruah, **M. Johri** and E.H.K. Akaho
    ICTP Preprint IC/2006/20
    Published by: UNESCO, IAEA & ICTP Available at: http//www.ictp.it/pub.off:
    Governed by UNESCO Category 1 Institute

32. Left Handed Materials: A new paradigm in structured electromagnetic

    Manoj Johri and Harihar Paudyal
    ICTP Preprint IC/2010/015,
    Published by: UNESCO, IAEA & ICTP Available at: http//www.ictp.it/pub.off:
    Governed by UNESCO Category 1 Institute

33. Dielectric Relaxation of Water: Theory and Experiments

    Narayan Prasad Adhikari, Harihar Paudyal and **Manoj Johri**
    ICTP Preprint IC/2010/31
    Published by: UNESCO, IAEA & ICTP Available at: http//www.ictp.it/pub.off:
    governed by UNESCO Category 1 Institute

34. Theoretical and experimental study of hydrogen boned liquids with water as an example

    Narayan Prasad Adhikari, Harihar Paudyal, Akhilesh Tiwari and **Manoj Johri**
    Journal of Molecular Liquids, 158 No2, 80-91,
    doi: 10.1016/j.molliq.2010.10.012, 158, 80-91 (2011), IF: 6.165

Published by: Elsevier, ISSN: 0167-7322
U.G.C. Notified List S.No.-**21734**

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

    Dharmendra Pratap Singh, Saumya Saxena, Sanjeev Johri, Harihar Paudyal and **Manoj Johri**
    Journal of Measurement,
    doi.10.1016/ J.measurement2010.11.020, 44605-610 (2011), IF: 3.927
    Published by: Elsevier, ISSN: 0263-2241
    U.G.C. Notified List S.No.-**25451**

36. From Left Handed Materials to Invisible Cloak Recent Advances

    Harihar Paudyal, **Manoj Johri** and Akhilesh Tiwari
    The Himalayan Physics, Vol.4, No. 4, Pg. 18-26(2013)

37. Differential Scanning Calorimetric, Polarized Light Microscopic and Impedance Spectroscopic Studies of Bicomponent Mixtures of Liquid Crystals Cholesteryl Myristate and 4-n-Decyloxy Benzoic Acid

    Dharmendra P.Singh, Abhay S.Pandey , **Manoj Johri** And Ravindra Dhar
    International Journal of Engineering Science Reviews, Vol.15, lssue 01, 1501-1510 (2015), Published by: WWW.SCIENCE CHAMBER.COM, ISSN: 1601-5487

38. Study of Dielectric response and thermo-dynamical properties of Pentyl Cyano Biphenyl (PCB) Liquid Crystal using Microwave Cavity Spectrometer as a Probe

    Manoj Johri, Akhilesh Tiwari, Saumya Saxena, Sanjeev Johri, Dinesh Kumar and Dharmendra Pratap Singh
    Journal of Measurement, 166 (2020), 108156, ISSN – 208156, UGC Notified, IF-3.927

39. 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
    Journal of Electronic Materials (JEMS), https://doi.org/10.1007/s11664-022-09934-8,
    P-ISSN: 3615235, IF: 2.04
    Publisher: Springer New York LLC

40. Temperature Dependence of Dielectric properties of Cholesteric Oleyl Carbonic Liquid Crystal at 20.9 GHz.

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

IEEE Transactions on Dielectric and Electrical Insulation (TDEI-0313-2022) (Communicated)

INTERNATIONAL PROCEEDINGS

1. Line width and Line shift Parameters of Rotation-Vibration Transition of Linear Molecules Perturbed by Inert Gas

   G.K. Johri, R.P. Rishiswar and **M. Johri**
   AIP Conference Proc. USA, No. 216, P 361-362, (1990), 10th International Conference on Spectral line shapes, Austin, Texas, USA, June 25-29, 1990

2. Dielectric Properties of Organic Liquids and Liquid Crystals in Solutions in Non-Polar Solvents.

   G.K. Johri, D.C. Dwivedi, S. Johri and **M. Johri**
   IEEE Transaction on Electrical Insulations, Conference Record of 10th International Conference on Conduction and Breakdown in Dielectric Liquid, held at Grenoble, France, September 10 - 14, 1990.

3 Dielectric Response and Phase Transition Measurement of Nematic Liquid Crystals at Various Temperatures in the Frequency Range of 9.0 GHz

   G.K. Johri, **M. Johri** and J.A. Roberts
   IEEE Transaction on Electrical Insulations, Conference Record of the 10th International Conference on Conduction and Breakdown in Dielectric Liquid, held at Grenoble, France, September 10 - 14, 1990

4. Theoretical Study of Dielectric Relaxation Mechanism and it's Physical basis for Nematic Crystals

   G.K. Johri, Nirupama Saxena and **Manoj Johri**
   IEEE 11th International Conference on Conduction and Breakdown in Dielectric Liquids (ICDL), Cat No. 93, CH 3204-5, Baden Datwill, Switzerland, 19-23 July, 1993, New York, HY, USA, P 159-160 (Phy. Abs No.86613)

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38. Optical properties, tuning of photonic band gap material

Manoj Johri, Sanjeev Johri, Saumya * and Rajeev Kumar, Dept. of Physics, DAV College, Kanpur U.P., Presented at 17th Annual Conference of PAS, Feb 19-20, 2008, K.S. Saket P.G. College, Ayodhya, Faizabad, U.P.

39. Acute Toxicity & Behavioral Changes in Fresh Water Fish Mystus Vittatus (Bloch) Exposed to Ammonium Sulphate

Preeti Saxena, **Manoj Johri*** and P.K. Mathur, Cytogenetics Lab, Dept. of Zoology, *Dept. of Physics, DAV College, Kanpur
Presented at Scientific and legal challenges of global warming, organized by BND College, Kanpur, Feb 25-26, 2008

40. Dielectric Relaxation Mechanism in IMCIEPOPB and IBCIEPOPB Ferroelectric Liquid Crystals at the Middle Temperatures of Different Sematic 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

41. The Non Resonant Absorption Study of Cholesteryl Oleyl Carbonate using Microwave Cavity Spectrometer at 9.00 GHz and 20.90 GHz

Manoj Johri, Anurag Saxena, R.S. Yadav and Abhay Saxena

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

42. 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 and Its Relevance to Various Fields of Science, held at Dayanand Girls (P.G) College, Kanpur Nov. 19-20, 2009

43. The Study of Negative Refractive Index Metamaterials in the Presence of Nano-Photonics

Akhilesh Tiwari, Jean –Pierre Fontaine and **Manoj Johri**
Presented at 2nd National Conference on Nanomaterials and Nanotechnology,
Held at University of Lucknow, Dec. 21-23, 2009

44. 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 Paudyal and **Manoj Johri**
Presented at 17 National Conference on Liquid Crystals held at VNGSU,Surat,Gujrat Nov.15-17, 2010.

45. The Behavior of Evanescent Wave in Metamaterials having Negative Permittivity and Negative Permeability

Manoj Johri and Akhilesh Tiwari.
Presented at 17 National Conference on Liquid Crystals held at VNGSU, Surat, Gujrat Nov.15-17,2010.

46. Metamaterials: Lycurgus Cup to Three Dimensional Cloaking

Harihar Paudyal, Saumya Saksena, Rishi Verma and **Manoj Johri**

Presented at National Conference on Advamcement of Nano Materials & Its Application, D.A-V. College, Kanpur, Feb. 15-16, 2011

47. Transmission of Evanescent Wave in the Presence of Negative Refractive-Index Metamaterials

Akhillesh Tiwari, **Manoj Johri and** Jean-Pierre Fontaine
Presented at National Conference on Advancement of Nano Materials & Its Application, D.A-V. College, Kanpur, Feb. 15-16, 2011

48. Interaction of Near Field Standing Wave with Metamaterials

Akhilesh Tiwari and **Manoj Johri**
Presented at National Conference on Advancement of Nano Materials & Its Application, D.A-V. College, Kanpur, Feb. 15-16, 2011

49. Study of 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, Vikramajit Singh Sanatan Dharm College, C.S.J.M. University, Kanpur-208002

50. Differential Scanning Calorimetric, Polarized Light Microscopic and Impedance Spectroscopic Studies of Bicomponent Mixtures of Liquid Crystals: Cholesteryl Benzoate and 4-n- Dodecyloxy Benzoic Acid.

Dharmendra P. Singh, **Manoj Johri** , Abhay S. Pandey and Ravindra Dhar
21 St National Conference on Liquid Crystals NCLC- 2014 November 10-12, 2014 Department of Physics Vikramajit Singh Sanatan Dharm College, C.S.J.M. University, Kanpur-208002

51. Cavity Perturbation Equations and the Dielectric Response of Gases, liquids and the Solids.

Manoj Johri
Presented at National Seminar on Nano Science and Nano Biotechnology (Sponsored by Department of Higher Education, Government of Uttar Pradesh, Lucknow)
Feb. 25-26, 2017, Department of Physics, D.A-V. College, Kanpur (U.P.) Affiliated to CSJM University, Kanpur

52. Dielectric Properties and Phase Transition Study of the Cholestric oleate Carbonate Choc) Liquid Crystal under the Influence of an Applied External Magnetic field using a Microwave Cavity Spectrometer

Manoj Johri, Saumya Saxena and J.A. Roberts
Presented at National Seminar on Nano Science and Nano Biotechnology Sponsored by Department of Higher Education Government of Uttar Pradesh, Lucknow, Feb. 25-26, 2017, Department of Physics, D.A-V. College, Kanpur, Affiliated to CSJM University, Kanpur, U.P.

53. Photonic Crystals for Bio-Nano-Sensors

Akhilesh Tiwari, Komal Sharma, **Manoj Johri**
Presented at National Seminar on Nano Science and Nano Biotechnology
Sponsored by Department of Higher Education Government of Uttar Pradesh, Lucknow, Feb. 25-26, 2017, Department of Physics, D.A-V. College, Kanpur Affiliated to CSJM University, Kanpur, Uttar Pradesh

54. Volume Dependence Study of Dielectric Properties of Nematic Liquid Crystal at Microwave Frequency
Saumya Saxena, Sanjeev Johri, Manoj Johri and Rajesh Sharma
9th IEEE UP Section Conference on Electrical, Computer and Electronics, 2-4 December, 2022, IIIT Allahabad
Sponsored by UPCON, IEEE UP Section (India)

Prof Manoj Johri
Department of Physics & Electronics
D.A-V.College Kanpur

Details Of Other Credential, Significant Contributions, Awards Received Etc.

S. No	Details (Mention Year, Value etc. where relevant)
1	**HONORS & AWARDS**:- Obtained **First positions and Gold Medal** in 1989 from ,Kanpur University. (2) Junior Associate of the Abdus Salam International center for

	Theoretical Physics (ICTP), Trieste, Italy from 1 January 2003 until 31 December 2010 (3)Robert A-Welch Foundation Pre doctoral fellowship , University of North Texas, Denton Texas 1 jan1990 – Dec.1990.(4) Teaching Assistantship from Department of Physics , University of North Texas, Denton Texas (5) Invited to collaborate in field of research from Institute of Applied Physics Byelorussian Academy of Sciences 16, F. Skorina str., Minsk.220072,USSR(6) Invited for Post doctoral research Dipartimento Di Fisica Universita di Pisa Piazza Torricelli,2
2	**SUMMER SCHOOL COURSE 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) Summer Project at Nuclear Science Centre, New Delhi (July 15-27, 1991) (3) Research Project under the Pre-Doctoral Robert A Welch Foundation Fellowships at the Dept. of Physics, University of North Texas, U.S.A. (4) Visited IUCAA, Pune, India from June 19 to June 30, 1996, under Visitor programme of the centre.(5) Attended First Refresher course on Recent Trends in Physics Udai Pratap College (Autonomous Institution) Varanasi – 221002 from Dec. 26,1996 to Jan. 9,1997. (6) Attended workshop on Modeling, Design and Characterization of Microelectronic Devices from Mar25-26, 2000 at University of Delhi, South Campus New Delhi. (7) Participated in UNESCO Regional Training Course for University/College Teachers in "Fibre Optics" from Feb, 12-24, 2001 at I.I.T. Kharagpur.(8) Participated in technical meeting on "Analytical Methods for characterization of hot particles and their Impact on environment 6-10 Mar 2006 Trieste ITALY (9) Participated in spring school on super string theory and related topics held at Abdus salam ICTP, Trieste Italy 27 march to 4 April 2006. (10) Participated in XXIV Annual Convention of IAPT held at C.S.J.M. University, Kanpur from October 10-12, 2009. (11)"School on Synchrotron and Free-electron-Laser Sources and their multidisciplinary Applications" held at Abdus salam ICTP, Trieste Italy 26 April-7 May 2010; (12) "Workshop on Entrepreneurship for Physicists and Engineers from Developing Countries" held at Abdus salam ICTP, Trieste Italy 3-7 may 2010.(13) "Spring College on Computational Nanoscience" held at Abdus salam ICTP, Trieste Italy 17-28 May 2010
3	**FOREIGN VISIT:-** (1) Physics Deptt. **University of North Texas, USA** from November 26, 1989 to February 2, 1991 (2) Department of Electronic Engg. **OSAKA University, Japan** as guest scientist from June 21, 2000 to July 21, 2000.(3) Department of Electrical Engineering, **Nagoya University, Nagoya, `Japan** from 1- 7 June 2003. (4) **Abdus Salam ICTP, TRIESTE,ITALY**, March1- APRL15 2006 (5) **Abdus Salam ICTP, TRIESTE,ITALY**, March 20- June15 2010.
4	**Significant research contributions :-** Resonant absorption in gases and non-resonant absorption in organic liquids and Liquid crystals at microwave Frequencies is one of the main area of my research. Further I have studied photonic band gap and its mechanism as a function of filling fraction and refractive Index contrast along with the calculation of the relative width and devised a theory for the tuning of the Photonic band gap by varying temperature and anisotropy and proposed a theory for the mechanism of occurrence of photonic band gap and to minimize the refractive index contrast to search a new material, I have chaired sessions in National conferences. Apart from this our research group have presented about 50 research papers in various International and National conference/ workshop symposium whose list is appended herewith for your perusal.
5	**Special contributions to teaching, promotion and management of science.:-** Since the beginning of the career I am continuously engaged in introducing several professional and vocational courses at my institute some of these are instrumentation, information technology, biotechnology, etc. I am successful in getting funding from U.G.C. to run some of these courses. I am managing these courses in the capacity of

	honorary Director of these courses. Further I am consultant Advisor in the U.G.C. scheme of Innovative Instrumental techniques and there Application, the Vice-Chancellor of C.S.J.M. UNIVERSITY nominated me as Member Board of studies for Unified syllabus in B.Sc. Electronics and Instrumentation. Further I Participated in training programme on Right to information Act 2005 held at Deendayal Upadhyay State Institute of Rural development, U.P. Baskshi-ka Talab, Lucknow, dated27-29 March 2008.**Award of Junior Associate ship from Abdus Salam International centre for Theoretical Physics Governed by UNESCO category one. Institute was mentioned by experts in its NAAC Report.**