

CURRICULUM VITAE

Name : Dr. Saumya Saxena

Father's Name : Late Prof. G.K. Johri

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Indra Nagar, Kanpur

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Email Address : saxenasaumya03@gmail.com

Date of Birth : 25th November 1972

Place of Birth : Kanpur, Uttar Pradesh, India

Marital Status : Married

Nationality : Indian

Present Status : Assistant Professor
Department of Chemistry,
D.A-V College, Kanpur

Administrative Position: Coordinator (D.V.S.-Cast)
Vocational & Professional courses
D.A-V College, Kanpur

Academic Qualification:

Degree	Year	Board/ University	Subjects
High school	1986	U.P. Board Allahabad	Hindi, English, Maths-2, Biology, Science-2, Social Science
Intermediate	1989	U.P. Board Allahabad	Hindi, English, Physics, Chemistry, Biology
Bachelor of Science	1992	Kanpur University	Zoology, Botany, Chemistry
Master of Science	1996	S.S.J.M. University, Kanpur	Organic Chemistry (Specialization in Organic Chemistry)
Ph.D.	2001	C.S.J.M. University, Kanpur	Organic Chemistry

Title of Ph.D. Thesis: “Chemico-Physical Properties of Organic Compound and their Semi Microscopic structural studies”.

Member of Academic Societies : Life member Indian Science Congress Association Society(L-35469)
Life member Vigyan Bharti (UP/KNP/LM_128)
Life member Indian Association of Physics Teacher
Life member Indian Liquid Crystal Society

Field of Research: Chemico-Physical Properties of Organic Compound and their Semi Microscopic structural studies, Liquid crystal, Dielectric Properties.

Researcher with whom worked and have Publications:

In India: Late Prof. G.K.Johri, Dr. Jahan Singh, Dr. C.K. Srivastava, Dr. Manoj Johri, Dr. D.C.Gupta, Dr. sanjeev Johri, Dr. Kuldeep srivastava, Dr. Rajesh Sharma, Dr. Akhilesh Tewari, Dr. Vishnu Awasthi, Dr. Pooja Tripathi, Dr. Vishnu kumar and Dr. Jitendra Saxena.

Abroad: Prof. Katsumi Yoshin (Japan), James A. Roberts (USA), Glauco Iernetti, Nikola Dezhnov (ITALY)

Research Experience : 25 years

Teaching Experience : 24 years

Total No. of Paper Published : 22

International Journals : 11

National Journals : 04

National & International Proceeding : National: 01
International: 06

National & International Conference : 35

M. Phil Thesis supervised : 01 Mrs. Vatsala

Summer School Courses Workshop:

- Environment and forest Ministry “Quality Testing of Ganges water” Sponsored Directorate of Gangs Pariyojana, Ministry of Environment and Forest (1992-1993).
- Summer school on Recent Advances in “The Quality of Cereals, Pulses and Oilseeds” sponsored by the Indian Council of Agricultural Research New Delhi and organized by the Department of

Agricultural Biochemistry. C.S.A. University of Agricultural and Technology May 25 to June 14, 1999.

- National workshop on Green Chemistry ANDNNM College, 2009.
- Workshop on P.G. Diploma in Nutrition Dietetics, Dec. 2015, IRTD Kanpur.
- National workshop on “Water Pollution and Its management”, department of Chemistry, D.A-V. College Kanpur, 31st October, 2015.
- Biochemistry Project in M.Sc. and set up of Experiments in M.Sc. Laboratory.

Carrier Advancement Scheme:

- Participated UGC sponsored orientation Programme (HRDC 133) university of Lucknow, June 17-July 06 2019 and obtained grade A.
- Participated UGC sponsored Refresher courses in environmental Science Goa University 12 Jan.-25 Jan. 2021, obtained Grade A.
- Participated UGC sponsored Refresher courses in chemistry teaching learning centre. Department of chemistry, Ramanujan College University of Delhi, 20 Sept.-04 October 2021 obtained grade A.
- Participated in FDP on Advanced Materials for Sensing and Energy Applications, 21 September-25 September, 2022 organized by Electronics & ICT Academy, IIT, Roorkee.

Educational Activities relevant to the National Development:

- Coordinator of SFC Department of D.A-V. College Kanpur.
- Introduced Biochemistry M.Sc. at D.A-V. College Kanpur SFC.
- Introduced Biochemistry B.Sc. at D.A-V. College Kanpur under SFC.
- Member of Formation of two year Diploma syllabus of Nutrition and Deities, Institute of Research & Development & Training. U.P.
- M.Sc. Biochemistry and Microbiology Project Judge Examiner.
- Attended the Regional Science Exhibition 2009-2010 as Judge in Kendriya Vidyalaya, Kanpur, 18-19 Sept. 2009.
- Paper setting of B.Sc.-III Biotechnology & Biochemistry 2015, Ram Manohar Lohia Awadh University, Faizabad U.P.
- Convener and coordinator of Rashtriya Uchar Shiksha Abhiyan Perspective Plan for 2013-2018.
- Convener of SFC Semester exam conducted by University.

College activity other than Academic:

- Member of Admission and annual Plan Committee (D.A-V 2022)
- Member of Alumni/PTA committee (D.A-V 2022)
- Convener of Admission committee (D.A-V 2022)

INTERNATIONAL JOURNALS:

1. 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.
Published by: Parjamon Information service U.K. ISSN 0140–1599 U.G.C. Acoustics Letters 22 (1998) 26-29. Notified List S.No. – **481**.
2. The Study of Molecular Interactions in Liquids Using Temperature Variation of Ultrasonic Velocity.
G.K. Johri, J. Singh, M. Johri and **Saumya Johri**.
Phys. Chem. Liq. 38 (2000) 509-519. Published by: Taylor and Francis ISSN: 0031-0104 (Print) 1029-0451 (Online) U.G.C. Notified List S.No. - 29531 (**IF-1.915**)
3. 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.
Phys. Chem. Liq., 39, , 711-722. 2001.(Print)1029-0451 (Online) U.G.C. Notified List S.No.-29531, (**IF-1.80**)
4. 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 2001Published by:World Scientific ISSN: 0217-9849 , ISSN: 1793-6640 (Online) U.G.C. Notified List S.No.-26390 (**IF 1.594**)
5. Optimal size for the Nano 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. Published by: World Scientific ISSN: 0217-9849, ISSN: 1793-6640 (Online) U.G.C. Notified List S.No.- 26390 (**IF 1.594**)
6. Measurement of the Intensity of Somoluminescence, 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.
Jpn J. Appl. Phy., 41 5329-5331 2002 Published by: Japan Society of Applied Physics ISSN: 0021-4922(Print) 1347&4065(web) U.G.C. Notified List S.No.-18518 (**IF 1.138**)

7. 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 Pg 174-178. 2004 Published by: IEEE Dielectrics and electric Insulation ISSN: 1070-9878 U.G.C. Notified List S.No.- 15200 (**IF 2.509**)
8. 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.measurement 2010.11.020 44605-610 (2011) Published by: Elsevier ISSN: 0263-2241 U.G.C. Notified List S.No.-**25451 (IF 3.927)**
9. Study of Dielectric response and thermo-dyn Mical properties of PentylCyano Biphenyl (PCB) Liquid Crystal using microwave cavity spectrometer as a probe.
Manoj Johri, Akhilesh Tiwari, **Saumya saxena**, sanjeev Johri, Dinesh Kumar, Dharmendra Pratap singh, journal of Measurement 166 (2020) 108156 ISSN – 208156, UGC Notified (**IF- 3.927**).
10. Antidyslipidemic and Anti-oxidant Activities of Nigella Sativa seeds extract in Hyperlipidemic Rats.
Saumya Saxena, Pooja Tripathi Pandey, Vishnu Kumar and Jitendra Kumar Saxena.
IJPSR (2020) Vol. II, Issue 9 (International Journal of Pharmaceutical Sciences and Research) E-ISSN: 0975-8232: P-ISSN: 2320-5148.
11. 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
12. 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)

NATIONAL JOURNALS:

1. A New theoretical approach of analysis for ultrasonic velocity data.
Saumya Johri
Bull, APT, 15 (1998), IP 06-207 Vol. 15 ISSN- 2277-8950.
2. Theoretical study of relative width of photonic band gap for the 3-D dielectric structure.
G.K. Johri, Akhilesh Tiwari, **Saumya Saxena**, Rajesh Sharma, Kuldeep Srivastava and Manoj Johri.
PRAMANA– journal of physics, **58** No. 1, (Jan. 2002). Published by: Indian Academy of sciences and Springer ISSN 0304- 4289(Print) 0973-7111(online) U.G.C. Notified List S.No.- **30170 (IF0.349)**
3. Experimental study of organic liquids in solution 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. **24** No 2 Pg 61, 2002 Published by: Ultrasonic Society Of India ISSN: 0256-4637 U.G.C. Notified List S.No. - **22517**.

4. Dielectric relaxation studies n5CB nematic liquid crystal at 9GHz under the influence of external magnetic field using microwave cavity spectrometer.

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

Pramana – Journal of Physics vol 76 No.4 621-628 (2011) Published by: Indian Academy of Science and Springer ISSN: 0304-4289 U.G.C. Notified List S.No.- **30170 (IF-0.349)**.

INTERNATIONAL PROCEEDINGS:

1. Study of molecular interaction in organic Liquid and Liquid crystal.

G.K.Johri, **Saumya Johri** and Katsumi Yosheno.

Proceedings of 13th International conference on Dielectric Liquid (ICDL.99), Nara, Japan, July 20-25, 1999 IEEE Electrical Insulation.

2. Mechanism of occurrence of Photonic Band Gap.

G.K. Johri, Akhilesh Tiwari, Manoj Johri, **Saumya Saxena** and Kat Sumi Yoshino.

Proceedings of Third International conference on Electrical and Electronic Material Engineering (ICEME-2001) held at senri life science centre, Nov 30-Dec1, OSAKA Japan. J.Soc. Elect. Mat. Eng 10 No 2, (2001) PP157-158.

3. The study of Internal Quantum Efficiency and Size Dependence in Quantum confinement Model for photo luminescence.

G.K. Johri, Akhilesh Tiwari, Manoj Johri, **Saumya Saxena** and Kat Sumi Yoshino.

Proceedings of Third International conference on Electrical and Electronic Material Engineering (ICEME-2001) held at Senri life science centre, Nov 30-Dec, OSAKA Japan. J.Soc. Elect. Mat. Eng 10 No 2, (2001) PP159-160.

4. Experimental study of dielectric response in tetrahydrofuran and 2, 5, dimethylfuran using time domain electrometer.

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

Publication year 2002 Page (9) 358-360, Proceedings 2002 IEEE 14 th International conference on Dielectric Liquids available at IEEE explore library.ISBN0-7803-7350-2.

5. Study of dielectric relaxation in 2, 4 –dimethyl substituted pyridine using Microwave Cavity Spectrometer and time domain reflectrometer.

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

Proceedings of 14 the International conference on Dielectric Liquids (ICDL 2002), Graz Austria Page 354-357 ISBN 0-7803-7350-2 available at IEEE explore library.

6. The Study of Molecular Properties of dimethyl substituted pyridines.

Gajendra K. Johri, M. Johri, **Saumya Johri** and Jahan Singh.

Proceedings of 13th International Conference on Dielectric Liquids (ICDL 99), Nara, Japan, July 20-25, 1999. IEEE Electrical Insulation.

NATIONAL PROCEEDINGS:

1. Meta materials Lycurgus cup to three dimensional cloaking.

Harihar Paudyal, **Saumya Saxena**, Rishi Verma and Manoj Johri.

Proceedings National Conference Advancement Nano materials and its application D.A-V college Kanpur, POD 107 Feb. 15-16-2011.

Conferences/Workshop/ Research Paper/Abstract/Seminar/Attended and Presented by Author and Co authors:

1. Environment and Forest Ministry “Ganga Pariyojana Nideshalaya” (1992-1993).
2. National Seminar on Liquid Crystal. held at Applied Chemistry, Faculty of Technology & Eng. University of Baroda, 29th Sept.-1st Oct. (1995).
3. Summer school on “Recent Advances in the Quality of Cereals, Pulses and Oilseeds” by Indian Council of Agricultural Research, New Delhi, C.S.A. University of Agriculture & Technology (June 1999).
4. Theoretical study of photonic Band gap, G.K. Johri, M. Johri, K. Srivastava, R. Sharma and A Tiwari at The National Academy of Science, India, organized by Allahabad University, 3-6 Nov. (2000).
5. Presented “New methodology of analysis for ultrasonic velocity data for 2-4,2-6,3-4 and 3-5 lutidines” in Annual Session of National academy of science held at Allahabad University (2000).
6. 10th National Symposium on Ultrasonic presented paper “Theoretical study.....properties” at Department of Physics, Osmania University, Hyderabad, 15-16 March, (2001).
7. 10th National Symposium on Ultrasonic published abstract “Experimental study of Tetra Hydro furan in solution in Non-polar solvents using Ultrasonic Techniques” at Department of Physics, Osmania University, Hyderabad, 15-16 March, (2001).
8. National Seminar on Emerging Trends in Chemical Sciences by Department of Chemistry, D.B.S. College Kanpur. (Dec. 2007).
9. International Seminar on Biotechnology for today’s worlds abstract present on “Occurrence of anti microbial resistance patterns in Entero bacterinaceae isolated from drinking water in slum areas in Kanpur, by Archana Roy & Saumya Saxena, 2-3 Dec. (2008).
10. National seminar on “Spectroscopy: Its relevance to Various fields of Science” abstract “Microwave cavity technique to study the Dielectric response in 4’-n-Heptyl-4-Biphenyl

Nematic Liquid Crystal at 20.9 GHz and 29.867 GHz.” by Department of Chemistry, D.G. (P.G) college, Kanpur.(Nov.2009).

11. 16th National conference in Liquid Crystals, Poster presentation on “Dielectric relaxation mechanism in IMC1EPOPB and 1BC1EPOPB Ferroelectric liquid crystals at The Middle temperatures of Different Smectic phases” by M. Johri, S. Saxena, S. Johri and D.P. Singh department of Physics, University of Lucknow, 26-28 Oct. (2009).
12. 25th Biennial Conference of the Indian Association of Leprologists Paper presented “Biochemical Aspect of Antigenic Properties of Mycobacterium tuberculosis”, Institute of Life Sciences, Chhatrapati Shahu ji Maharaj University, Kanpur, Nov. (2009).
13. National workshop on “Green chemistry” by Department of Chemistry, ANDNNM College Kanpur. (Dec. 2009).
14. National Seminar on New trends in Green Chemistry (UGC) abstracts presented on “Carbon Nano-Tubes: A constructive Gizmo for Biomedical Relevance” at D.A-V. College Kanpur, 14-15 Dec., (2010).
15. National conference on “Advancement of Nano Materials and its Applications” by Department of Physics, D.A-V college Kanpur (Feb. 2011).
16. Science academic’s Lecture workshop on Advances in Bio-inorganic and Nano Chemistry by Department of Chemistry, D.A-V College Kanpur. (Nov. 2011).
17. Regional Rural science Congress on “Innovation in Science and Technology for Inclusive Development” by ISCA, Kanpur & Department of Zoology, D.G. College Kanpur (Nov. 2013).
18. 21st National Conference on Liquid crystal, Department of Physics, VSSD College Kanpur, (Nov.2014).
19. National Seminar on “Science and Technology for Human Development” by ISCA, Kanpur and Department of Zoology, D.G. (P.G) college Kanpur, (Dec.2014).
20. National Seminar on “Ancient Indian Science & Technology” (oct. 2015).
21. National workshop on Water pollution and its Management Department of chemistry, D.A-V College Kanpur. (Oct.2015).
22. 2nd National Workshop on “Innovative Lab Practices through Green Chemistry” at Institute of Paramedical Sciences, CSJM University, Kanpur, (Sept. 2015).
23. National Seminar on “Science & Technology for Indigenous. Development in India” by ISCA, Kanpur chapter & Department of Zoology, D.G.(P.G) college, Kanpur (Jan. 2016).
24. ISCA, National Seminar celebration 104 yrs on “Science & technology for national Development” (Sept. 2016).
25. National Seminar on “Ganga Pollution: Analysis & Remedies” paper presented on “Physico-chemical and Microbiological characteristics of River water Ganga” 7-8 oct. (2016).

26. National Seminar on Biodiversity conservation and sustainable Development Sponsored (UGC) Abstract presented on “Influence of Hydro and Osmoprimering on Germination and seedling Growth in (*Oryza sativa* L.) Under Different Stressed conditions of Temperature and Moisture”, B.N.D. College, Kanpur, 20 January, (2016).
27. National Seminar on “Nano-Science and Nano- Biotechnology Department of Physics, D.A-V. College Kanpur (Feb. 2017)”.
28. The Indian Science Congress Association, National Seminar on “Future India: science & Technology”, Department of Zoology, D.G. P.G. college Kanpur, (Nov. 2018).
29. National Seminar on “Food chemistry, Processed Food & Toxicology, Department of Chemistry, D.A-V. College, Kanpur (Sept. 2019)”.
30. National Conference on “Emerging Innovations in Agriculture, Biotechnology and Health sciences” Department of Biotechnology, BNCET, Lucknow (U.P.) [Felicitated Guest] (Nov. 2019).
31. National Seminar on “Application of Elements of Periodic Table in Natural Sciences”, Chirst church college Kanpur (Nov. 2019).
32. The Indian Science congress Association National Conference on Science & Technology: Rural Development abstract on “Increased Cardiovascular Risk among Postmenopausal women in Urban Population” by Nidhi Srivastava, Saumya Saxena and Vani Gupta, 3-4 Dec., 2019.
33. National seminar on “Waste management: Role of Chemistry”. Department of Chemistry, D.A-v college, Kanpur (Jan 2020).
34. National Seminar on Recent Advanced Techniques in Analytical Chemistry, Department of Chemistry, D.G. (PG) College, Kanpur (2020).
35. National webinar on Women’s contributions to the science and Technology, Department of Chemistry, Dayanand Anglo- Vedic (PG) College, Kanpur. March (08, 2022).