




Title	Dr.	First Name	SATYA PRAKASH	Last Name	YADAV	Photograph
Designation	ASSISTANT PROFESSOR					
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Educational Qualifications						
Degree	Institution				Year	
B.Sc.	University of Lucknow, Lucknow				2003	
M.Sc.	University of Lucknow, Lucknow				2005	
Ph.D.	University of Lucknow, Lucknow				2011	
Career Profile						
2019- Present	Assistant Professor Department of Physics Acharya Narendra Dev College Delhi University, New Delhi					
2016- 2018	Research Associate Mentor: Prof. Shri Singh Department of Physics, Institute of Science Banaras Hindu University, Varanasi-221005, INDIA					
2012- 2015	Research Associate Mentor: Prof. Shri Singh Department of Physics, Institute of Science Banaras Hindu University, Varanasi-221005, INDIA					
Administrative Assignments						

<i>Areas of Interest / Specialization</i>
<ol style="list-style-type: none"> 1. Application of liquid crystals as Biological and Chemical Sensor 2. Structure and properties of liquid crystalline materials
<i>Subjects Taught</i>
<ol style="list-style-type: none"> 1. Elements of Modern Physics 2. Applied Optics 3. Solid State Physics
<i>Research Guidance</i>
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<i>Publications Profile</i>
<ol style="list-style-type: none"> 1. Satya Prakash Yadav, K. Yadav, J. Lahiri & A.S. Parmar, Ferroelectric Liquid Crystal Nanocomposites: Recent Development and Future Perspective, Liquid Crystal Reviews 6, 143 2019. 2. P.K. Tripahti, Satya Prakash Yadav and S. Singh, <u>Impact of silica nanoparticles dispersion on the dielectric and electro-optical properties and absorption spectra of host ferroelectric liquid crystal</u>, Liquid Crystals 45, 953 2017. 3. Satya Prakash Yadav and S. Singh, Carbon Nanotube Dispersion in Nematic Liquid Crystals: An Overview, Progress in Materials Science 80, 38 2016. 4. Satya Prakash Yadav, R. Manohar and S. Singh, Effect of TiO₂ Nanoparticles Dispersion on Ionic Behaviour in Nematic Liquid Crystal, Liquid Crystals 42, 1095 2015. 5. Satya Prakash Yadav, M. Pande, R. Manohar and S. Singh, Applicability of TiO₂ nanoparticle towards suppression of screening effect in nematic liquid crystal, Journal of Molecular Liquids 208, 34 2015. 6. M. Pande, Satya Prakash Yadav, R. Manohar and S. Singh, Suppression of Surface Domains in Ferroelectric Liquid Crystals by Dye Dispersion, Ferroelectrics 468, 123 2014. 7. D. P. Singh, S. K. Gupta, Satya Prakash Yadav, P. K. Sharma, A. C. Pande and R. Manohar, Guest–host interaction in ferroelectric liquid crystal–nanoparticles composite system, Bulletin of Material Science 37 (3), 511 2014. 8. Satya Prakash Yadav, M. Pande, R. Manohar and S. Singh, Suppression of relaxation modes in dye dispersed SmC* phase, Phase Transitions 87 (3) 294 2014. 9. Satya Prakash Yadav, M. Pande, R. Manohar and S. Singh, Effect of dye dispersion on the relaxation modes of smectic C* phase, Liquid Crystals 40(11), 1503 2013.

10. D.P. Singh, **Satya Prakash Yadav**, P.K. Tripathi, P. Tripathi, R. Manohar, P.K. Sharma and A.C. Pandey, Concentration Dependent Physical Parameters of Ferroelectric Liquid Crystal and ZnO Nano Material Composite System, **Soft Materials** **11**, 305 **2013**.
11. P. K. Tripathi, A. K. Misra, K. K. Pandey, **Satya Prakash Yadav** and R. Manohar, Abnormal switching behavior of nanoparticle composite systems, **Phase Transitions** **86(12)**, 1241 **2013**.
12. K. K. Pandey, A. K. Misra, P. K. Tripathi, **Satya Prakash Yadav** and R. Manohar, Theoretical Aspect of Nanonematic Composite: Energy Functional and Threshold Voltage, **Molecular Crystals Liquid Crystals** **582**, 88 **2013**.
13. D.P. Singh, S.K. Gupta, K.K. Pandey, **Satya Prakash Yadav**, M.C. Varia and R. Manohar, Ferroelectric liquid crystal matrix dispersed with Cu doped ZnO nanoparticles, **Journal of Non-Crystalline Solids** **363**, 178 **2013**.
14. D.P. Singh, M.C. Varia, S.K. Gupta, L.K. Sagar, S. Kumar, **Satya Prakash Yadav** and R. Manohar, High-temperature chiral nematic phase in naphthalene and cholesterol derivative liquid crystal: characterisation and dielectric relaxation study, **Journal of Physics and Chemistry of liquids** **51(5)**, 663 **2013**.
15. A.K. Misra, **Satya Prakash Yadav**, P.K. Tripathi, R. Manohar, A.K. Prajapati and M.C. Varia, Dielectric relaxation study of a H shaped liquid crystal dimer, **Journal of Physics and Chemistry of liquids** **50(5)**, 605 **2012**.
16. **Satya Prakash Yadav**, K. K. Pandey, A. K. Misra, P. K. Tripathi and R. Manohar, The molecular ordering phenomenon in dye-doped nematic liquid crystals, **Physica Scripta** **83**, 035704-1 **2011**.
17. **Satya Prakash Yadav**, K. K. Pandey, A. K. Misra, S. Dixit and R. Manohar, Molecular dynamics in weakly polar nematic liquid crystal doped with dye, **Canadian Journal of Physics** **89**, 661 **2011**.
18. **Satya Prakash Yadav**, K. K. Pandey, A. K. Misra and R. Manohar, Electro-Optical Behavior of Dye Doped Nematic Liquid Crystal, **Acta Physica Polonica A** **119**, 824 **2011**.
19. R. Manohar, **Satya Prakash Yadav**, A. K. Misra and K. K. Pandey, Dipole Dynamics of a Nano Doped Weakly Polar Liquid Crystal, **Molecular Crystals Liquid Crystals** **534**, 57 **2011**.
20. R. Manohar, **Satya Prakash Yadav**, K. K. Pandey, A. K. Srivastava and A. K. Misra, Comparative study of dielectric and electro-optical properties of pure and polymer ferroelectric liquid crystal composites, **Journal of Polymer Research** **18**, 435 **2011**.
21. R. Manohar, K. K. Pandey, A. K. Srivastava, A. K. Misra and **Satya Prakash Yadav**, Sign inversion of dielectric anisotropy in nematic liquid crystal by dye doping, **Journal of Physics and Chemistry of Solids** **71**, 1311 **2010**.
22. R. Manohar, A.K. Misra, D.P. Singh, **Satya Prakash Yadav**, P. Tripathi, A.K. Prajapati and M.C. Varia, Dielectric, thermal and optical study of an unusually shaped liquid crystal, **Journal of Physics and Chemistry of Solids** **71**, 1684 **2010**.
23. R. Manohar, K. K. Pandey, **Satya Prakash Yadav**, A. K. Srivastava and A. K. Misra, Surface anchoring effect on guest–host ferroelectric liquid crystal response time – an electro-optical investigation, **Philosophical Magazine** **90(34)**, 4529 **2010**.

24. R. Manohar, **Satya Prakash Yadav**, A. K. Srivastava, A. K. Misra, K. K. Pandey, P. K. Sharma and A. C. Pandey, Zinc Oxide (1% Cu) Nanoparticle in Nematic Liquid Crystal: Dielectric and Electro-Optical Study, **Japanese Journal of Applied Physics** **48**, 101501 **2009**.

Conference/ Presentations/Workshops

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Association With Professional Bodies

- Lifetime membership (**L-322**) of **THE INDIAN LIQUID CRYSTAL SOCIETY**, INDIA.

Other Activities