


Name of Teaching Staff	: Dr. Jessy P. J	
Designation	: Assistant Professor	
Department	: Science and Humanities	
Date of Joining the Institution	: 20-12-2021	
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Google Scholar Link:	<a href="http://scholar.google.co.in/citations?user=olbZ8X8AAAJ">http://scholar.google.co.in/citations?user=olbZ8X8AAAJ</a>	
Researchgate Link:	<a href="https://www.researchgate.net/profile/Jessy-Pj-2">https://www.researchgate.net/profile/Jessy-Pj-2</a> <a href="http://www.scopus.com/authid/detail.url?authorId=57191613233">http://www.scopus.com/authid/detail.url?authorId=57191613233</a>	
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Qualifications with Class / Grade	: 1. Ph.D. Physics (2020), University of Mumbai. 2. M.Phil Physics (2008), CGPA- 8.17, A Grade, Mahatma Gandhi University, Kottayam, Kerala 3. M.Sc Physics (2005), 84.0%, Distinction Sacred Heart College, Thevara, Mahatma Gandhi University, Kerala 4. B.Sc Physics (2003), 91.7%, First class Bharata Mata College, Thrikkakara, Mahatma Gandhi University, Kerala 5. B.Ed (2006), 76.3%, Distinction Mahatma Gandhi University, Kerala	
Total Experience in Years	: 11 years	
Papers Published in Journal:	: (1) <b>Jessy PJ</b> , Radha S, Patel N, Morphological, optical and dielectric behavior of chiral nematic liquid crystal mixture: Study on effect of different amount of chirality, Journal of molecular liquids 255 (2018) 215–223. (IF: 6.165)	

- (2) **Jessy PJ**, Bambole V, Deshmukh RR, Patel N, Reduced power consumption in nickel zinc ferrite nanoparticles doped chiral nematic liquid crystal devices, *Journal of molecular liquids* 281 (2019) 480-489. (IF: 6.165)
- (3) **Jessy PJ**, Radha S, Patel N, Highly improved dielectric behavior of ferronematic nanocomposite for display application, *Liquid Crystals* 46 (2019) 772-786. (IF: 2.908)
- (4) **Jessy PJ**, Radha S, Patel N, Phase behavior of thermotropic chiral liquid crystal with wide blue phase, *AIP Conf Proc.*1942 (2018) 040013.
- (5) **Jessy PJ**, Shalini M, Patel N, Sarawade P, Radha S, Thermo optical study of nematic liquid crystal doped with ferrofluid, *AIP Conf. Proc.*1837 (2017) 040066.
- (6) **Jessy PJ**, Mani SA, Amare JR, Gharde RA, Thermo-elastic behaviour of liquid crystal elastomer, *AIP Conf. Proc.* 1665 (2015) 040027.
- (7) Mani SA, Hadkar SU, **Jessy PJ**, Lal S, Keller P, Khosla S, Sood N, Sarawade P, Study of the optical, thermal, and mechanical properties of nematic liquid crystal elastomers, *Journal of Information Display* 17 (2016) 169-176. (IF: 2.913)
- (8) Gharde RA, Mani SA, **Jessy PJ**, Amare JR, Keller P, Spectroscopic and thermo-mechanical studies of liquid crystal elastomer, *Key Engineering Materials* 659 (2015) 495-499. (IF: 0.451)
- (9) Venugopal C, Kurian MJ, Savithridevi E, **Jessy PJ**, Anilkumar CP, Renuka G, Low frequency electromagnetic waves in a multi ion plasma, *Indian J. Phys.* 84 (2010) 319-324. (IF:1.407)
- (10) Gharde R, **Jessy PJ**, Mesomorphic behavior of nanoparticles doped cholesteric liquid crystal. In: *Nanoelectronics and sensors*. Bloomsbury publication (2015) 115-118, ISBN:9789385436949.
- (11) Mani SA, **Jessy PJ**, Lal S, Tripathi SK, Khosla S, Gharde S, Sarawade P, Effect of CNT on liquid crystal elastomer. *IEEE Xplore* April 2016, DOI:10.1063/1.4917640, ISSN: 2325-9418.
- (12) Gharde R, Amare JR, Pradhan MS, Bhave MG, Mani SA, Thakare SY, **Jessy PJ** “Thermal Behavior of polymer dispersed liquid crystals”,

<p>Patent Published</p>	<p>International Journal of Scientific &amp; Engineering Research, vol.5, issue 12, Dec 2014, ISSN 2229-5518.</p> <p>(1) Nickel Zinc ferrite nanoparticles doped chiral nematic liquid crystal for blue phase based displays with low power consumption.</p> <p>Indian Patent filed on: 20/12/2018, Application Number: 201821048239</p> <p><b>Jessy P. J</b> and Dr. Nainesh Patel, Publication date (U/S 11A): 26/06/2020</p>
<p>Papers Presented in Conferences</p>	<p><b><u>(International: 6, National:10)</u></b></p> <ol style="list-style-type: none"> <li>1. <b><i>Oral presentation</i></b> at International Conference on Advanced Materials for Physical, Chemical and Biological Applications held during 3<sup>rd</sup> – 4<sup>th</sup> March, 2023 at Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai and <b>won the first prize.</b></li> <li>2. <b><i>Invited short Lecture</i></b> at International Conference on Nanomaterials (ICN 2019), held during 12<sup>th</sup> – 14<sup>th</sup> April, 2019 at Mahatma Gandhi University, Kottayam, Kerala.</li> <li>3. <b><i>Oral and Poster presentation</i></b> at 62nd DAE Solid State Physics Symposium, held during 26<sup>th</sup> – 30<sup>th</sup> December, 2017, at Bhabha Atomic Research Centre, Mumbai and <b>won the best poster award.</b></li> <li>4. <b><i>Poster presentation</i></b> at 24<sup>th</sup> National Conference on Liquid Crystals (NCLC-2017), held during 11<sup>th</sup> -13<sup>th</sup> October, 2017, at IISER Mohali.</li> <li>5. <b><i>Poster presentation</i></b> at National Workshop on 'Recent Trends in Surface Physics and Phenomenon, held during 21<sup>st</sup> – 22<sup>nd</sup> March, 2017, at Department of Physics, University of Mumbai.</li> <li>6. <b><i>Poster presentation</i></b> at 23<sup>rd</sup> National Conference on Liquid Crystals (NCLC 2016), held during 7<sup>th</sup> -9<sup>th</sup> December, 2016, at Indian Institute of Technology, Dhanbad.</li> <li>7. <b><i>Oral presentation</i></b> at National Workshop on “Advanced Functional Materials: Synthesis to Applications”, held during 21<sup>st</sup> - 22<sup>nd</sup> March, 2016, Department of Physics, University of Mumbai, India.</li> </ol>

	<p>8. <b>Poster presentation</b> at Fourth International Conference on Frontiers in Nanoscience and Technology, COCHIN-NANO-2016, held during 20<sup>th</sup> -23<sup>rd</sup> February 2016, at Cochin University of Science and Technology, Kerala.</p> <p>9. <b>Oral presentation</b> at International Conference on Nanomaterials and Nanotechnology (NANO-2015), held during 7<sup>th</sup> -10<sup>th</sup> December, 2015 at K. S. Rangasamy College of Technology, Tiruchengode, India.</p> <p>10. <b>Poster presentation</b> at International Conference on Energy Harvesting Storage and Conversion, IC-EEE 2015, held during 5<sup>th</sup> -7<sup>th</sup> February 2015, at Cochin University of Science and Technology, Kerala.</p> <p>11. <b>Poster presentation</b> at National Seminar on 'Nanomaterials: The Indian Perspective', held on 22<sup>nd</sup> January 2015, at Maharshi Dayanand College, Mumbai.</p> <p>12. <b>Poster presentation</b> at 102<sup>nd</sup> Indian Science Congress, held during 3<sup>rd</sup> -7<sup>th</sup> January at University of Mumbai.</p> <p>13. <b>Oral presentation</b> at International Conference on Advances in Science and Technology (ICAST 2014), held during 11<sup>th</sup> - 12<sup>th</sup> November, 2014, at Saraswati College of Engineering, Navi Mumbai <b>won the Highest Commendation Prize.</b></p> <p>14. <b>Poster presentation</b> at 59<sup>th</sup> DAE Solid State Physics Symposium, held during 16<sup>th</sup> – 20<sup>th</sup> December, 2014 at Vellore institute of Technology, Vellore and <b>won the best poster award.</b></p> <p>15. <b>Poster presentation</b> at 1st Mumbai Area Physics Meet, held on 25<sup>th</sup> August 2014, at Department of Physics, University of Mumbai.</p> <p>16. <b>Oral presentation</b> at National seminar on Space Science- Chandrayaan, held on 4<sup>th</sup>-5<sup>th</sup> September, 2008 at N.S.S Hindu College, Changanacherry, Kerala on 4-5 September.</p>
Area of Specialization	: Liquid Crystal Physics
Professional Memberships	: Life member of Indian Liquid Crystal Society

Subjects Taught	<u>UG Level:</u> • <u>PG Level:</u> •	Applied Physics, Engineering Physics
Projects Guided	: <u>UG Level:</u> <u>PG Level:</u>	
Recommended Students for Higher Education	<u>Name of the Student</u>	<u>University/Industry</u>
Institute/Department Responsibility handled:		