



## RESUME

**Name:** Dr.K.Sreelatha  
**Designation:** Assistant Professor  
**Department:** Physics  
**Phone No:** 9447897925  
**Email:** sreelatharajiv@gmail.com  
**Date of Entry into Service:** 08/12/2004  
**Date of Retirement:** 31/05/2028  
**Qualifications:** M.Sc., Ph.D., M.Ed., PGDCA  
**Area of Interest:** Condensed Matter Physics  
**Subjects Handled:** PG and UG classes in Physics  
**Field of Research:** Conducting Polymers  
**Experience:** 12 years  
**Extension Activities:** Coordinator Science Forum and Harassment Prevention Committee

### Papers Published in International Journals:

1. K.Sreelatha and P.Predeep, "*Enhanced Electrical and Optical Properties of Iodine Doped LDPE Films*", IOP Conf. Series: Materials Science and Engineering 73 (2015) 012012 doi:10.1088/1757-899X/73/1/012012
2. K.Sreelatha and P.Predeep, "Optical Characterization of Semiconducting Nylon 6 Films", AIP Conference Proceedings 1620, 213 (2014); doi: 10.1063/1.4898243
3. K.Sreelatha and P.Predeep, "*Electrically conducting Plastic Films from Polyethylene Terephthalate for Optoelectronic applications*", Polymer Science, Series A, 55(7) 2013, pp1-7.
4. K.Sreelatha and P.Predeep, "*Iodine doped, semi-conducting nylon 6 polymers*", Journal of Plastic Film & Sheeting, 29(2), 2013, pp127–143.
5. K.Sreelatha and P.Predeep, "*Dielectric Studies of Iodine Doped Nylon 6 Polymer Films*", AIP Conf. Proc. 1536, 477 (2013); DOI: 10.1063/1.4810308
6. K.Sreelatha and P.Predeep, "*Structure Analysis of Iodine Doped Polyamide Nylon 6 Complex Films by FTIR Spectroscopy and X-Ray Diffraction Studies*", AIP Conf. Proc. 128 (2011) 1391. DOI: 10.1063/1.3646801.

### Papers Presented in Seminars/Conferences:

1. K.Sreelatha, "Investing in Water-A Transition to Green Economy", KSCSTE sponsored two day seminar on 'Augumentation of Ground water resources: Problems, Constraints and Challenges' organized by the Department of Chemistry, Sree Narayana College, Kollam on 29<sup>th</sup> and 30<sup>th</sup> June 2016.
2. K.Sreelatha, "Degradation Kinetics of Semiconducting LDPE Films", UGC sponsored two day National seminar on "Nanomaterials for Energy Applications" organized by the Department of Physics, Sree Narayana College, Punalur on 7<sup>th</sup> and 8<sup>th</sup> January 2016.
3. K.Sreelatha and P.Predeep, "*Polymer Complex Films for Electronic Applications*", Proceedings of the National Seminar on 'New Frontiers in Nanotechnology and Material Science' on 20 March 2015,organised by Department of Physics, S.N. College, Chengannur, Kerala.
4. K.Sreelatha and P.Predeep, "*Lewis Acid Complexation of Polyamide Nylon 6 Films-Synthesis, Structure and Optical Properties*", Proceedings of the KERALA SCIENCE CONGRESS XXIV (29-31 January 2012), Rubber Board, Kottayam, Kerala.
5. K.Sreelatha and P.Predeep, "*Effect of Iodine Doping on Polyamide Nylon 6 Films*", Proceedings of the 99th Indian Science Congress, January 3-7, 2012, KIIT University, Bhubaneshwar, Odisha and NISER, Bhubaneshwar, Orissa.
6. K.Sreelatha and P.Predeep, "*ElectricallyConductive Pet-Iodine Complex Films: Investigation of the Structure by FTIR Spectroscopy and X-Ray Diffraction Studies*",Proceedings of the National Seminar on Physical and Bio Medical Applications in Nano Technology, October 12-14, 2011, Department of Physics, S.N. College, Kollam, Kerala & Academy for Chemistry Teachers,Kerala.
7. K.Sreelatha and P.Predeep,"*Electrically Conductive Nylon 6 Films: A Fourier Transform Infrared Spectroscopic Study*", Proceedings of the National Conference on Recent Trends in Vibrational Spectroscopy, August 26-27, 2011, Department of Physics, Bishop Moore College, Mavelikkara, Kerala.
8. K.Sreelatha and P.Predeep,"*Intrinsic Electric Conductivity In Iodine Doped Pet Films*", Proceedings of the International Conference on Perspectives of Vibrational Spectroscopy, August 6-9, 2013, Department of Physics, Bishop Moore College, Mavelikkara, Kerala.
9. K.Sreelatha and P.Predeep, "*Dielectric Studies of Iodine Doped Nylon 6 Polymer Films*",Proceedings of the International Conference on Recent Trends in Applied Physics and Material Science, RAM 2013, Feb 01-02, 2013, Govt. College of Engineering and Technology, Bikaner, Rajasthan.
10. K.Sreelatha and P.Predeep, "*Intrinsic Electric Conductivity in LDPE Films*",Proceedings of the International Conference on Molecular Spectroscopy of Advanced Materials &Biomolecules, August 7-9, 2012, Department of Physics, Bishop Moore College, Mavelikkara, Kerala.
11. K.Sreelatha and P.Predeep, "*Enhanced Electrical and Optical Properties of Iodine Doped LDPE Films*" Proceedings of the International Conference on Materials Science and Technology (ICMST 2012) 10 - 14 June 2012, Department of Physics, St. Thomas College, Pala.
12. K.Sreelatha and P.Predeep, "*Structure Analysis of Iodine Doped Polyamide Nylon 6 Complex Films by FTIR Spectroscopy and X-Ray Diffraction Studies*"Proceedings of the

International Conference on Optics: Phenomena, Materials, Devices, and Characterization: Optics 2011: May 23-25, 2011, Department of Physics, National Institute of Technology, Calicut.

**Training Programmes/Seminars Attended:** 18

**Seminars organised:**

1. KSCSTE sponsored one-day seminar and awareness programme organized by Department of Physics, Science Forum and Bhoomitrasena Club, Sree Narayana College, Chengannur on 23/11/2016 in connection with International Ozone day observation.
2. KSCSTE sponsored one-day seminar and awareness programme organized by Department of Physics, Science Forum and Bhoomitrasena Club, Sree Narayana College, Chengannur on 07/10/2015 in connection with International Ozone day observation.
3. KSCSTE sponsored one-day National seminar on 'New Frontiers in Nanotechnology and Material Science' organized by Department of Physics, Sree Narayana College on 20/03/2015.
4. KSCSTE sponsored National Science Celebrations organized by Department of Physics and Science Forum, Sree Narayana College, Chengannur on 23/02/2015.

**Books Edited**

Editor of the proceedings of the KSCSTE sponsored National Seminar organized by the Department of Physics, at Sree Narayana college, Chengannur in March 2015.

**Invited Talk**

'*Electrical and optical properties of Semiconducting Nylon 6 Films*' a Conference on light, **OPTICS 17** at National Institute of Technology Calicut from 9-11 January 2017.

**Orientation Courses Attended:**

IT oriented from 11/06/2008-08/07/2008 at the UGC- Academic Staff College, University of Kerala, Thiruvananthapuram

**Refresher Courses Attended:**

1. Refresher course in Physics from 12/09/2006 -04/10/2006 at the UGC- Academic Staff College, University of Kerala, Thiruvananthapuram
2. Refresher course in Nano Sciences from 22/10/2013 to 11/11/2013 at the University of Kerala, Thiruvananthapuram
3. Special Summer School Program from 28/05/2015 to 17/06/2015 at the HRDC, Kerala University of Kerala

**Short Term Course:**

International Winter Course on 'Organic Solar Cells: Principles and Practices' from 02/11/2016 to 09/11/2016 organized by Global Initiative of Academic Networks (**GIAN**), an initiative by Govt. of India for Higher Education and hosted by Laboratory of Molecular Photonics and Electronics (LAMP), Department of Physics, National Institute of Technology, Calicut.

**Academic Responsibilities Undertaken:**

Additional Examiner  
Question Paper Setter

**Duties Performed at College:**

CBCSS coordinator  
Mentor - Walk With the Scholar Program

**Minor Research Projects:** UGC funded Minor Project (1728-.MRP/12th Plan/14-15/KLKE052/UGC-SWRO dated 29/10/2015) entitled “Development of Conducting Polymer Blend Complex Films for Optoelectronic Device Applications” with financial aid of Rs.500000/-