# CURRICULUM VITAE

P. CHRISTURAJ Ph.D Associate Professor Department of Physics St. Joseph's College (Autonomous) Tiruchirapalli, Tamil Nadu, India -620 002.

Email: christy18\_sjc@yahoo.co.in \_Christuraj\_ph1@mail.sjctni.edu\_\_\_\_

#### Areas of Research Interest:

Synthesis, growth and characterization of single crystals, and nano materials and their applications

## Personal:

- Name : P. Christuraj
- Date of Birth : 18. 12.1972
- Nationality : Indian
- Sex : Male
- Marital Status : Married

#### **Education:**

- Ph.D. from Bharathidasan University. February 2016
- M.Phil, M.Sc., PGDCSA and B.Sc., from St. Joseph's College (Autonomous), Trichy 620 002.
- B.Ed., from Annamalai University, 1996.

#### **Employment Record:**

- Assistant Professor Aided: Department of Physics, St. Joseph's College, Trichy from 19.10.2017 onwards
- Lecturer(Selffinance): Department of Physics, St. Joseph's College, Trichy from 16.06.1998 to 18.10.2017

#### Administrative Experience:

- President of Physics Association, 2016-17
- Additonal Chief superindentent for semester examinations 2004
- Member of Board of studies, Department of Physics, st. Joseph's college
- Purchase officer, Department of Physics from June 2017 to till date
- Fine arts incharge for the department for many years
- Astronomical club member, St.Joseph's College 2015-17
- Youth Red Cross programme officer for Shift I, St. Joseph's college from June 2017 to till date

#### **Publications:**

#### **Journal Publications**

- Effect of sintering temperature on redistribution of cation, electronic structure and tuning of optical bandgap and ferromagnetism in Mn0.1 Co 0.9 Fe2O4 spinel ferrites, De Gruyter, 2022
- Effect of mediator on the auto combustion synthesis, magnetic properties and electron density distribution of spinel Ferrite Mn0.005 Zn 0.95 Fe2O4, Brazilian Journal of Physics,2022
- Synthesis of Mn doped CdO nanoparticles by co-precipitation method for supercapacitor applications, Materials Today: Proceedings, 2021
- Enhanced the electrochemical properties of Ni doped V2O5 as a electrode material for supercapacitor applications, Materials Today: Proceedings, 2021
- Synthesis and characterization of Zn doped CdS nanoparticles as electrode material for supercapacitor application, Materials Today: Proceedings, 2021
- Linear and nonlinear optical properties of I-proline potassium bromide, Materials Today: Proceedings, 2021
- Optical, spectral and NLO properties of L-Leucine potassium chloride crystals, Materials Today: Proceedings, 2021
- Investigation on structural, optical and thermal properties of L-asparagine monohydrate potassium iodide (LAMPI) NLO crystals, Materials Today: Proceedings,2021
- Spectroscopic, Mechanical and Optical Properties of L-Serine Ammonium Carbonate (LSAC) Single crystal, International Research Journal of Engineering and Technology,2019

- P. Christuraj, M. Dinesh Raja, J. Madhavan, International Research Journal of Engineering and Technology, Spectroscopic, mechanical and optical properties of L-Serine Ammonium Carbonate (LSAC) single crystal,49113-115) 2017
- M. Dinesh Raja, P. Christuraj, J. Madhavan International Research Journal of Engineering and Technology, Linear and Non linear optical properties of metal incorporated L-Serine crystals4(73-77)2017
- P. Christuraj, M. Dinesh Raja, J. Madhavan, International Journal of Scientific, Research in Science and Technology, Spectroscopic, mechanical and optical studies of L-Vlaine picrate single crystal, 3(49)2017
- P. Christuraj, M. Dinesh Raja, J. Madhavan, International Journal of Scientific, Research in Science and Technology, Spectroscopic, mechanical, and optical studies of L-Valine picrate single crystal3(49)2017
- M. Dinesh Raja, P. Christuraj, J. Madhavan, International Journal of Scientific, Research in Science and Technology, Spectroscopic, hyper polarizability and optical properties of N.Benzyl-2-Methyl-4-nitro anline single crystal, 3(15)2017

- Jain John, P.Christuraj, K. Anitha, T. Balasubramanian,(2009) Growth and characterization of cobalt chelated glycine single crystals for opto electronics applications, Materials chemistry and physics, 118(2009)284-287
- P. Christuraj, K.Kaviyarasu, s. Anbarasu, P.S. Joseph, Prem Anand Devarajan, Photoconductivity, spectral and electrical conductivity studies of Zince boro – d- (1malate) NLO single crystals, Der Pharama Chemica 2011, 3(6):521-527
- P. Christuraj, M. Lalitha, S. Anbarasu, P.S. Joseph, A. Jestin Lenus, T. Kishore Kumar, and D. Prem Anand, Studies on the growth and characterization of anewnon linear optical Copper Guanidinium Sulphate single crystals, Scinencia Acta Xaveriana vol.3, (2012) 11-25
- Christuraj Paul Chinnappan, Anbarasu Selvaraj, Joseph Pitchamuthu Stalin, Prem Anand Devarajan, Optik, Growth and characterization of I-Histidinium chloroacetate (LHCA): A new nonlinaear optical material, 127(2016)110-115
- Christuraj Paul Chinnappan, Anbarasu Selvaraj, Joseph Pitchamuthu Stalin, Prem Anand Devarajan, Optik, Growth and characterization studies of I-threonine phosphate (LTP) a new semiorganic NLO crystal, 126(2015)5517-5521

## Courses Taught:

- Mechanics and properties of matter
- Mathematical physics
- Sound thermal and statistical physics
- Electricity and magnetism
- Programming in C
- Digital Electronics
- Analog Electronics
- Electromagnetic theory

- Modern Photography
- Atomic, and nuclearphysics
- Classical mechanics
- Optics and Spectroscopy
- Numerical methods

# M.Phil Projects Guided: 25

Scholar Code	Scholar Name	Date of ViVa	Title
15MPH109	B. Priyadarshini	2016	Growth and characterization of Throenine sodium nitrate single crystals
15MPH118	S. Vijaya	2016	Growth and characterization of Trifluoroacetyl single crystals
P18HP0033	A. Backiaraj	2020	A review on synthesis, Growth and characterization of L-Arginine family single crystals
06CD30936	K. JHANANY	2007	Growth of LADP and LAHClBrP single crystals and their characterization
06CD30954	N. Kavitha	2007	Growth and characterizaton of Mg3(PO3)2 doped ADP, KDP and FeSO4 single crystals
07MPH106	K. Anitha	2007	Growth and characterizaton of diaqua Bisglycine cobaltous chloride crystals
08MPH121	R. Geetha	2008	Growth and characterizaton of semiorganic material - Di thiourea zinc acetate
08MPH120	S. Vaikunth	2008	Growth and characterizatin of D-Alanine single crystals
09MPH104	K. Madhuri	2009	Growth and characterization of Glycine Trifluoroacetic acid single crystal
09MPH102	K. Bairavi	2009	Growth and characterization of urea copper acetate single crystal
10MPH111	P. Ponmalar	2010	Growth and characterizaton of Pure Guanidinium carbonate single crystals
10MPH110	M. Lalitha	2010	Growth and characaterization of copper quanidinium sulphate single crystals
12MPH128	H. Jude Lenard Hilary	2012	Growth and characterization of L-Histidinium trichloroacetate single crystals
16MPH108	P. Annie Therese	2017	Growth and characterizatoin of L-Serine Potassium carbonate single crystals
16MPH114	R. Esther Getsy	2017	Growth and characterization of L-Serine Cupric Chloride dihydrate single crystals
16MPH119	R. Daisy Prasanna	2017	Growth and characterization of L-Serine ammonium Carbonate single crystals
17MPH101	N. Sellam	2018	synthesis and characterization of undoped and Mn doped CdO nano particles
17MPH121	A.Varalashmi	2018	synthesis and characterization of undoped and Zn

			doped CdS nano particles
18MPH118	K.DIVYA	2019	Synthesis and characterization of Titanium Dioxide (TiO2) Nano particles
18MPH121	S. Soundarya	2019	Synthesis and characterization of Europium doped Tin oxide Nanoparticle
19MPH101	M. Bebiliya	2020	A Review on various preparation method assisted Copper Oxide nano particles
P18HP0036	M.Dheivendran	2020	A review on synthesis, Growth and characterization of L- Alanine family single crystals
13MPH107	R. David Prabu	2014	Synthesis, growth and characterization of pure and doped L-Glutamine oxalate (LGO) single crystals
14MPH107	A. Arulvalan	2015	Growth and characterization of O-Anisic salicylate single crystal