

RESUME



Name: Dr. V. Sivashankar
Designation: Assistant Professor
Department: Physics
Address : 2A/1, ADJ Nagar, North high ground road,
Palaymkottai-627011.

PERSONAL DETAILS

Date of Birth : 31-08-1978
Qualification : M. Sc ., Ph. D
Designation : Assistant Professor
Department : Physics
Community : Kongu vellalar
Religion : Hindu
Nationality : Indian
Mobile : +91 9940357870
Email ID : tvsivashankar@yahoo.co.in

ACADEMIC QUALIFICATIONS

| Degree | Specialization | College | University | Year of Passing |
|--------|----------------|----------------------|-----------------------|-----------------|
| B. Sc | Physics | Sri Vasavi College | Bharathiyaruniversity | 2000 |
| M. Sc | Physics | - | Annamalaiuniversity | 2003 |
| Ph. D | Physics | Pachaiyappas college | Madras university | 2010 |

TEACHING EXPERIENCE

| | |
|----------------------------|---|
| Date of Appointment | 18-06-2012 |
| Date of Retirement | 31-08-2038 |
| Teaching Experience | UG – 10 years |
| Research | Guided M Phil: Guided Ph D: Guiding Ph Scholar: 3 |

| COURSES/CLASSES TAUGHT | NAME OF THE INSTITUTIONS | DURATION | | Years |
|------------------------|---------------------------|---------------|------------|-------|
| | | From | To | |
| Engineering Physics | Kongu Engineering college | Aug 2009 | April 2012 | 3 |
| Materials science | Kongu Engineering college | Aug 2009 | April 2012 | 3 |
| Electronics I | St. Xavier's College | June 2012 | Till date | 10 |
| Electronics II | St. Xavier's College | June 2012 | Till date | 10 |
| Allied Physics I | St. Xavier's College | June 2012 | Till date | 10 |
| Allied Physics II | St. Xavier's College | June 2012 | Till date | 10 |
| Oprics and lasers | St. Xavier's College | December 2021 | - | - |

AWARDS RECEIVED

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| 1. | ➤ Received Best faculty award for the year 2011-12 from Kongu Engineering College. |
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ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE ()

| S. No | Name of the Training | Name of the Sponsoring Agency | Place and Date |
|--------------|---|--|--|
| 1 | Orientation programme for teachers | IQAC, St. Xavier's college | Palayamkottai, 15 th june 2012. |
| 2 | Orientation programme for teachers | IQAC, St. Xavier's college | Palayamkottai, 18 th & 19 th August 2012 |
| 3 | Faculty workshop on competence building" at | St. Xavier's college | 15 th & 16 th March 2013. |
| 4 | Orientation programme | professional training committee and jesuit higher education commission of madurai province. | loyola college, from 17 th – 24 th may 2013 |
| 5 | Faculty development training programme. | St. Joseph's College, Tiruchirappalli and jesuit Higher Education Commission of Madurai Province | St. Joseph College, Tirichirappalli from 19/11/2013 to 22/11/2013. |
| 6 | Orientation programme for teachers" organized by | IQAC at St. Xavier's college. | Palayamkottai , 21 st January 2014 |
| 7 | Orientation programme for teachers on innovative teaching strategies for student-centered education". | IQAC at St. Xavier's college on | Palayamkottai , 5 th july 2014 |
| 8 | Orientation programme for teachers on "Classroom Management and Teaching Skills | IQAC at St. Xavier's college | Palayamkottai , 21 st August 2014. |
| 9 | Orientation programme for teachers on "Millennium Psychology of students" | IQAC a t St. Xavier's college | Palayamkottai, 14 th & 15 th june 2016. |

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| 10 | Orientation programme for teachers on “Psychology of Students” organized | IQAC at St. Xavier’s college on | Palayamkottai , 30 th September 2016 |
| 11 | Orientation programme for teachers on “Counselling and Mentoring” organized by | IQAC at St. Xavier’s college | Palayamkottai , 19 th & 20 th June 2017. |
| 12 | Orientation programme organized by Tamilnadu,. | UGC Human resource Development centre, Bharathidasan University | Tiruchirappalli, from 18/05/2018 to 14/06/2018 |

DETAILS OF RESEARCH WORK

| Research Stages | Title of the Thesis | University where the work was carried out |
|-----------------|--|---|
| Ph. D | STUDIES ON SYNTHESIS, GROWTH AND CHARACTERIZATION OF SEMIORGANIC NONLINEAR OPTICAL LPPAPC, LOH, SBTMH, ZGuS AND GPCl SINGLE CRYSTALS | Madras University |

AREAS OF RESEARCH

Crystal growth

Nano science

| RESEARCH PROJECTS CARRIED OUT | | | |
|--------------------------------------|--|--|-----------------|
| S. No | Title of the Project | Name of the Funding Agency & Amount | Duration |
| 1. | Investigations on the preparations, crystal growth and characterization of guanidine based NLO crystals for various optoelectronic applications. | DST, 13.44 lakhs | 3 years |

| PUBLICATIONS: SCOPUS INDEXED JOURNALS () WEB OF SCIENCE (), UGC LISTED JOURNALS () | | | |
|--|--|----------------------------------|--|
| S. No | Title of the Paper | Name of the Journal | ISSN No., Volume, Issue, Impact factor & Pg. No |
| 1 | Growth and characterization of semiorganic nonlinear optical rubidium bis-dl-malato borate single crystals | Materials Chemistry and Physics | 107 (2008) 57–60. |
| 2 | Growth and characterization of tetra l-lysine alanine mono hydrochloride dihydrate (TLAMHCl), a new semiorganic nonlinear optical single crystal | Materials Chemistry and Physics, | Volume 109, Issue 1, 15 May 2008, Pages 119-124. |
| 3 | Growth and characterization of new semiorganic nonlinear optical single crystal L-Phenylalanine L-Phenylalaninium perchlorate (LPPAPC) | Materials Letters, | 63, 3-4, (2009) 363-365. |
| 4 | Growth and characterization of biadmixture TGS single crystals | Journal of Crystal growth, | 311 (2009) 1147–1151. |
| 5 | Synthesis and growth of Sodium bitartrate monohydrate, a new organometallic nonlinear optical single crystal | Current Applied Physics | 9 (2009) 1125–1128. |

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| 6 | Growth and characterization of new semiorganic nonlinear optical zinc guanidinium sulfate single crystal | Journal of Crystal Growth | 311 (2009) 2709–2713. |
| 7 | Growth, spectral, optical and thermal characterization of new metallorganic crystal—Bisthiourea nickel chloride | Spectrochimica Acta Part A | 74 (2009) 1005–1009. |
| 8 | Studies on solution grown L-Cysteine Hydrochloride Monohydrate single crystals | International Journal of Materials Sciences, | 1 (2009) 133– 142. |
| 9 | Studies on Growth and Properties of L-Tyrosine Hydrochloride (LTHCL) Crystal | International Journal of Material Science | 3 (2009) 205–213. |
| 10 | Synthesis, growth, structural, optical and thermal properties of a new semiorganic nonlinear optical guanidinium perchlorate single crystal | Materials Chemistry and Physics | 130 (2011) 323– 326. |
| 11 | Growth and Characterization of Guanidinium Trifluoroacetate—Second Harmonic Generation from a Centrosymmetric Crystal | Journal of Minerals & Materials Characterization & Engineering | 10 (2011) 843-853. |
| 12 | Structural analysis of the combustion synthesized y^{3+} doped ceria (Ce _{0.9} Y _{0.1} O _{1.95}) | Surface Review and Letters | , Vol. 20, Nos. 3 & 4 (2013) 1350037. |
| 13 | Structural and spectroscopic studies of rare earths doped ceria (E _{La,Sc,Yb} :CeO ₂) nanopowders | Ceramics International | 40 (2014) 8599-8605. |
| 14 | Growth and thermal, micro hardness and NLO studies of guanidinium L-monohydrogentartrate L-tartaric acid (GuHTT) single crystals | International Journal of ChemTech Research | 6 (2014) 1796-1799. |
| 15 | Growth and characterization of a new organic NLO crystal: Guanidine acetate | Optik | 126 (2015) 5873–5876. |

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| | single crystals | | |
| 16 | Study On Second Order Nonlinear Properties Of Organic Material: Guanidine Hydrogen Maleate Single Crystals | International Journal of Scientific Research and Modern Education (IJSRME) | 2016, Volume I, Issue I ISSN (Online): 2455 – 5630. |
| 17 | Growth and characterization of Bis(L-threonine) copper (II) monohydrate single crystals: A semiorganic second order nonlinear optical material | Optical Materials | 62 (2016) 357-365. |
| 18 | Design of an efficient solution grown semiorganic NLO crystal for short wavelength generation: Bis(L-Threonine) magnesium (II) monohydrate | Materials Letters | 200 (2017)109-112. |

| PUBLICATIONS: OTHER INDEXED JOURNALS () | | | |
|--|---|--|--|
| S. No | Title of the Paper | Name of the Journal | ISSN No., Volume, Issue, Impact factor &Pg.No |
| 1 | Growth and characterization of Guanidine benzoate (GuBzt) single crystals | International Research Journal of Engineering and Technology (IRJET) | Volume: 04 Issue: 09 (2017),ISSN: 2395-0056, 159-163. |
| 2 | Growth and characterization of Guanidine benzoate (GuBzt) single crystals | International Research Journal of Engineering and Technology (IRJET) | Volume: 04 Issue: 09 (2017),ISSN: 2395-0056, 159-163. |
| 3 | Antibacterial Activities of Guanidine Family Single Crystals against Bacillus Subtilis and Staphylococcus Aerus | Journal of Chemical, Biological and Physical Sciences | 8 (2018)ISSN: 2249 – 1929, 046-050. |
| 4 | Structural, Optical and Dielectric Characterization of Guanidine Acrylate (GuAcr) NLO Single Crystals | J. Surface Sci. Technol. | Vol 34(3-4) (2018), ISSN:0976-9420, 98-103. |
| 5 | Structural, Optical and Dielectric Characterization | J. Surface Sci. Technol. | ISSN (Online) : 0976-9420, Vol 34(3- |

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| | of Guanidine Acrylate (GuAcr) NLO Single Crystals | | 4),(2018),98-103. |
| 6 | Growth of Technologically Significant bulk Crystals by Unidirectional S-R Method: A Review | International Journal of ChemTech Research | 14 (2021), ISSN: 0974-4290, 229-236 |
| 7 | Investigations on the Growth and Characterization of L-Leucine Doped Rubidium Sulfate Nonlinear Optical Single Crystal | Proceedings of the International Conference on "Emerging Materials and Its Applications | ISBN NO: 978-81-956471, (2021), 299-310. |

AS A RESOURCE PERSON (26)

| S. No | Name of the Event | Name of the Sponsoring Agency | Place and Date |
|-------|----------------------------------|-------------------------------|--|
| 1 | guest lecture on Nano-technology | star college programme | St.Xaviers college on 22 nd January 2015. |

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:

| S. No | Name of the Event | Name of the Sponsoring Agency | Place and Date |
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| 1 | International conference on spectrophysics, Organized by Dept. of Physics,. | UGC | Pachaiyappa's College. Chennai, Feb 9-12, 2005 |
| 2 | National Symposium on crystal growth and characterization, organized by dept. of physics, | UGC | Loyola college, Chennai, 29 & 30 Sep 2005. |
| 3 | National workshop on "Three dimensional structure determination of Bio-molecules", | CSIR | Department of Physics, RKM Vivekananda College, Chennai-04, India, |

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|----|--|------|---|
| | | | December 15-16, 2006. |
| 4 | Advances in Material Science, | DST | Dept. of Physics Loyola College, Chennai, 28th Feb 2007. |
| 5 | 2 nd national symposium on Nonlinear Optical Crystals and Modeling in Crystal Growth. | DRDO | Department of Physics, Anna University, Chennai-25, India, 26-27 March 2007 |
| 6 | National Conference on recent advances in molecular structure(NCMS-2007) | DST | Department of Physics, Arupadai Veedu Institute of Tech., Vinayaka Mission's University, Paiyanoor, Chennai-603104, India, 19-20 July 2007 |
| 7 | Regional Seminar on Crystal Growth and Nanoscience, | DRDO | Department of Physics, Aditanar College of Arts and Science, Tiruchendur- 628216, Tamilnadu, India, 30-31 Aug & 1 st Sept 2007. |
| 8 | 13 th National seminar on crystal growth | BRNS | Centre for Crystal Growth, SSN College of Engineering, Chennai-603110, India, January 27- 29,2009. |
| 9 | International conference on functional materials and advanced Technology | DST | Dept. of Physics, Vellamal Engineering College, Chennai, January 29-31, 2009. |
| 10 | State level seminar on recent advancements in solar energy applications, | DRDO | Dept. of Physics, Presidency College, Chennai-5, April 21-22, 2009. |
| 11 | National conference on recent advances in crystal growth and nanoscience, | DRDO | Dept. of Physics, Kongu Engineering College, Perundurai, Erode- |

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| | | | 638 052, March 26 & 27, 2010. |
| 12 | National seminar on “Environmental Education-challenges and Practices” organized by | IQAC, St. Xavier’s college. | 10 th & 11 th January 2013 |
| 13 | National seminar of “Innovations in student-centered teaching-Learning process in 21st century | IQAC, St. Xavier’s college | 29 th & 30 th January 2015. |
| 14 | Seminar on “Assesment and Accompaniment of students” Organized by | IQAC, St. Xavier’s College | 30th March 2019. |
| 15 | One day International webminar on “Accelerating Education 4.0 using ICT Tools-Post covid paradigm” organized by | IQAC, St. Xavier’s college | 17 th June 2020. |
| 16 | One day National webminar on Covid 19 & Care for Environment | IQAC, St. Xavier’s college | 16 th June 2020. |
| 17 | One day National webminar on Online Education obstacles & solution | IQAC, St. Xavier’s college | 16 th July 2020. |
| 18 | Refresher course | MHRD | Teaching and Learning Centre, Ramanujan College, University of Delhifrom 17/05/2021 to 31/05/2021 |
| 19 | Refresher course | MHRD | Teaching and Learning Centre, Ramanujan College, University of Delhifrom 05/07/2021 to 19/07/2021 |

Date: 27/7/2022

Name: Dr. V. Sivashankar