

Bio – data of Dr. V. Joseph



Personal details:

Age & Date of Birth : 57 Years, 07-07-1962
Nationality : Indian

Academic Qualification:

Ph.D. Presidency College, Chennai (2004)
M.Phil. Presidency College, Chennai (1988)
M.Sc. Loyola College, Chennai (1987)
B.Sc. Loyola College, Chennai (1985)

Teaching Experience (27 years)

- Teaching in the Department of Physics, Loyola College (1991 till date)

Research Experience:

No. of candidates who completed PhD : 9
No. of candidates who submitted thesis: 2
No. of M.Phil. Candidates : 20
No. of students pursuing PhD : 3

Life Memberships in Professional Bodies:

1. Indian Association of Physics Teachers
2. Indian Association for Crystal Growth
3. Indian Spectro Physics Association

Posts Held:

1. Member, Syndicate, University of Madras (Sept. 2010 - Sept. 2012).
2. Member, Senate, University of Madras (Sept. 2007 – Sept. 2012).
3. Member, Academic Council, University of Madras (Sept. 2006 - Sept. 2012).
4. Member, Standing committee, University of Madras (Jan. 2011 - Sept. 2012).
5. Member, Board of Research Studies in Science, University of Madras, Aug. 2011 - July 2014).
6. Planning Board Member, Bharathidasan University, Trichy (April 2009 - April 2012).
7. Member, Governing Body, Loyola College, Chennai (2007-2009).
8. Member, Governing Body, Mar Gregorios College, Chennai (March 2008 - March 2011).
9. Member, Governing Body, Quaid-e-Milleth Government College for women, Chennai (April 2011 - April 2013).
10. President, Physics Association, Loyola College, Chennai (2002-2004 & 2008-2010).
11. Secretary, Aided College Teachers Association, Loyola College Unit, Chennai (2005 - 2007).

Conferences / Workshops Organized:

1. Convenor, International Conference on **“Advanced Materials” (ICAM 2012)**, 5 -7 January 2012.
2. Convener, National Conference on **“Crystal Growth and Characterisation”**, 29 & 30 September 2005.
3. Convener, Workshop for Hr.Sec.School Physics Teachers, 7 & 8 December 2006.
4. Convener, Workshop for Hr.Sec.School Physics Teachers, 23 & 24 August 1996.
5. Organizer, International Seminar on **“Delearn to Relearn”** in May 2007.
6. Organizer, Conference on **“Equity in Higher Education”** in April 2006.

Orientation / Refresher Courses Attended:

1. Refresher Course in ‘Recent trends in Crystal Growth and applications’ at Anna University in February 2003.

2. Refresher Course in 'Accelerator and Radiation Physics' conducted by the Dept. of Nuclear Physics, University of Madras in January 2002.
3. Orientation Programme Organised by the Academic staff College, University of Madras in November 1997.

List of Publications:

1. *J. Arul Martin Mani, M. Mercina, S. Antony Inglebert, P. Narayanan, V. Joseph, P. Sagayaraj*, "Crystal structure determination of two pyridine derivatives: 4-[(E)-2-(4-methoxyphenyl)ethenyl]-1-methylpyridin-1-ium hexafluoro- λ 6 -phosphane and 4-[(E)-2-[4-(dimethylamino)phenyl]ethenyl]-1-phenyl- λ 5 -pyridin-1-ylum hexafluoro- λ 6 -phosphane" *Acta Crystallographica Section E: Crystallographic Communications*, 75(Pt 2): 288–291.
2. *D. Arthi, E. Ilango, M. Mercina, D. Jayaraman, V. Joseph*, "Growth and structural analysis of an organic NLO compound: L-lysine picrate" *Journal of Molecular Structure*, 1127 (2017) 156 – 163.
3. *P.S. Latha Mageshwari, R. Priya, R. Subhashini, V. Joseph, S. Jerome Das*, "Theoretical Investigation of Optical and Mechanical Properties of Sodium Hydrogen Succinate Single Crystal: a Third Order NLO Material" *Material Science & Engineering*, (2017) 2412 – 5954.
4. *J.Reena Priya, D.Jayaraman V.Joseph*, "Investigation on growth and characterization of non-linear optical crystal L-Valine Magnesium Chloride" *International Journal of Chem Tech Research*, 10(7) (2017) 756 - 760.
5. *P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph, S. Jerome Da*, "Growth, optical, thermal, dielectric and mechanical studies of sodium hydrogen succinate single crystal: A Third order NLO crystal" *Journal of Thermal Analysis and Calorimetry*, 128(1) (2016) 29 – 37.
6. *P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph, S. Jerome Das*, "Growth, optical, thermal, mechanical and dielectric studies of sodium succinate hexahydrate (β phase) single crystal: A promising third order NLO material" *Journal of Optics and Laser Technology*, 85 (2016) 66 – 74.
7. *J. Elberin Mary Theras, D. Jayaraman, V. Joseph*, "Growth of Lithium Sulphate doped L – threonine for the study of Bioactivity and NLO behavior" *Journal of Chemical and Pharmaceutical Sciences*, 9(1) (2016) 147 – 148.
8. *J. Elberin Mary Theras, D. Kalaivani, J. Arul Martin Mani, D. Jayaraman, V. Joseph*, "Synthesis, structural and optical properties, Ferromagnetic behavior cytotoxicity and NLO activity of Lithium Sulphate doped L – threonine (LiSO_4 -LT)" *Optics and Laser Technology*, 83 (2016) 49 -54.

9. *J. Elberin Mary Theras, D. Kalaivani, M. Mercina, D. Jayaraman, V. Joseph* "Characterization of L – threonine phthalate crystal for photonic and nonlinear optical applications", *Optik*, 127 (2016) 3397 – 3401.
10. *J. Arul Martin Mani, A. Karolin Martina, J. Reena Priya, V. Joseph, P. Sagayaraj*, "Investigation on Growth, Structural, Optical, Dielectric and Surface Properties of Organic Nonlinear Optical Material: DAPSH" *International Journal of Latest Research in Engineering and Technology*, (2016) 11-13.
11. *D. Kalaivani, J. Elberin Mary Theras, D. Jayaraman, V. Joseph*, "Optical and electrical properties of L – Ornithine Hydrogen Bromide (L - Ohb) single crystal" *International Journal of Science and Research*, ISSN 2319 – 7064.
12. *J. Reena Priya, M. Mercina, D. Kalaivani, V. Joseph, D. Jayaraman*, "Growth, Structure and Functional Properties of Zinc Chloride Doped L-Phenylalanine Perchlorate" *International Journal of Technical Research and Applications*, 37 (2016), 83 - 85.
13. *N. Saravanan, S. Shri Prasad, S. Ponnusamy, V. Joseph*, "Ultrasonic – assisted wet chemical synthesis and characterization of Cu doped SnO₂ nanoparticles", *International Journal of Chem Tech Research*, 7 (3) (2015) 1574 - 1577.
14. *J. Elberin Mary Theras, D. Kalaivani, D. Jayaraman, V. Joseph*, "Investigations on growth kinetics and characterizations of nonlinear optical material: L-threonine succinate (LTS)" *International Journal of Engineering Science and Research Technology*, 4(2) (2015) 10-18.
15. *J. Elberin Mary Theras, D. Kalaivani, D. Jayaraman, V. Joseph*, "Growth and spectroscopic, thermodynamic and nonlinear optical studies of L-threonine phthalate crystal" *Journal of Crystal Growth*, 427 (2015) 29-35.
16. *D. Kalaivani, S. Vijayalakshmi, J. Elberin Mary theras, D. Jayaraman, V. Joseph*, "Growth L Valinium Aluminium chloride single crystals for OLED and super – capacitor applications" *Optical materials*, 50 (2015) 87 - 91.
17. *D. Kalaivani, D. Jayaraman, V. Joseph*, "Investigations on 2D and 3D topography and Z scan studies of zinc chloride co-doped L-Lysinium succinate" *Journal of crystal growth* 428 (2015) 24-28.
18. *D. Kalaivani, D. Arthi, A. Mukunthan, D. Jayaraman, V. Joseph*, "Growth and Characterization of L – Lysinium succinate single crystal" *Journal of Crystal Growth*, 426 (2015) 135 - 140.
19. *N. Saravanan, S. Ponnusamy, Shri Prasad S, V. Joseph*, "Synthesis and Characterization of SnO₂ Quantum Dots" *International Journal of ChemTech Research* 6 (2014) 600

20. *N. Saravanan, S. Shri Prasad, S. Ponnusamy, and V. Joseph*, "Ultrasonic-assisted wet chemical synthesis and characterization of Eu^{3+} doped SnO_2 nanoparticles" *Der Pharma Chemica*, 6(4) (2014) 15-17.
21. *P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph, S. Jerome Das* "Optical, dielectric and ferroelectric behavior on doped lithium sulphate crystals" *Optik* 125 (2014) 2289 - 2294.
22. *P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph, S. Jerome Das* "Crystalline perfection and Mechanical properties of lithium sulphate monohydrate NLO single crystal" *International Journal of Chem Tech Research*, (2014) 1563 – 1566.
23. *J.Elberin Mary Theras, D.Anbuselvi, D.Jayaraman, V.Joseph*, "Studies on growth and optical, structural, mechanical and photoconductivity of non – linear optical material L –threonine" *International Journal of ChemTech Research*, 6 (2014) 2499-2506.
24. *D. Anbuselvi , D. Jayaraman , J. Arul Martin Mani , V. Joseph*, "Growth and optical, thermal, mechanical and surface morphology studies of semiorganic nonlinear optical material: Dichlorobis (L-proline) zinc (II) crystal" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 127 (2014) 405– 414.
25. *D. Arthi, D. Anbuselvi, D. Kalaivani, D. Jayaraman, V. Joseph*, "Nucleation, Growth and Characterization of L-Tyrosine Sodium Nitrate Single Crystal" *International Journal of ChemTech Research*, (2014) 1544-1547.
26. *D. Arthi, S. Anbuselvi, D. Jayaraman , J. Arul Martin Mani, V.Joseph* "Nucleation, Growth and characterization of semiorganic nonlinear optical crystal sodium acetate doped L –tyrosine" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 136 (2014) 168 - 174.
27. *D. Arthi, S. Anbuselvi, J. Arul Martin Mani, D. Jayaraman, V. Joseph* "Crystal growth and nonlinear optical properties of L –Tyrosine doped picrate Single crystal" *International Journal of Science and Research (IJSR)*, (2014) 51-53, ISSN: 0974 - 4290.
28. *J. Arul Martin Mani, V. Joseph, D.Anbuselvi, P.Sagayaraj*, "High Quality Crystal Growth and Characterization of Organic Nonlinear Optical Crystal DAST" *International Journal of Chem Tech Research*, 6 (2014) 1582 – 1584.
29. *K.Sugandhi, SunilVerma, M.Jose. V.Joseph, S.JeromeDas*, "Effect of pH on the growth, crystalline perfection, nonlinear optical and mechanical properties of tris-glycine zinc chloride single crystals" *Optics & Laser Technology*, 54 (2013) 347 - 352.
30. *D. Anbuselvi, J. Elberin Mary Theras D. Jayaraman, V. Joseph*, "Nucleation kinetics, growth and analysis of structural, optical, dielectric and mechanical

properties of nonlinear optical material: L-proline manganese chloride” *Physica B*, 423 (2013) 38 – 44.

31. *D. Anbuselvi, R. Josephine Usha, D. Jayaraman, V. Joseph*, “Surface morphology, Micro hardness, Optical and conductivity studies of nonlinear optical material L – Proline Cadmium chloride (LPCC)” *International Journal of Advance Material Science*, (2013).
32. *D. Anbuselvi, D. Jayaraman V. Joseph*, “Synthesis, growth and characterization of nonlinear optical material L – Proline zinc chloride single crystal” *Archives of Physics Research*, 4(1) (2013) 35 – 38.
33. *P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph, S. Jerome Das* “Optical, dielectric studies of Cadmium Chloride doped single crystals of Lithium Sulphate” *Advanced Materials Research*, 584 (2012) 65 – 69.
34. *R. Josephine Usha, J. Arul Martin Mani, V. Joseph*, “Impedence analysis of bimetallic thiocyanate ligand based single crystal of $\text{MnHg}(\text{SCN})_4$ and $\text{CdHg}(\text{SCN})_4$ ” *Archives of applied science research*, 4(1) (2012) 638-644.
35. *R. Josephine Usha, J. Arul Martin Mani, P. Sagayaraj, V. Joseph*, “Synthesis, growth, optical, mechanical, thermal, and surface studies of ligand based single crystal of tri-allylthiourea cadmium chloride(ATCC)₄” *Archives of applied science research*, 4(3) (2012) 1266 – 1273.
36. *G. Cynthia Jemima Swarnavalli, V. Joseph, D. Roopsingh, V. Kannappan* “Studies on nano suspension of silver sol and redispersed nanocrystallite silver in aqueous and alcoholic media” *Journals of Molecular Liquids*, 164 (2011) 243-249.
37. *G. Cynthia Jemima Swarnavalli, V. Joseph, V. Kannappan, D. Roopsingh* “A simple Approach to the synthesis of Hexagonal-shaped Silver Nameplates” *Journals of Nanomaterials*, (2011) 1 – 5.
38. *K. Sugandhi, S. Dinakaran, M. Jose, R. Uthrakumar, A. Jeya Rejendran, G. Bhagvan narayana, V. Joseph, S. Jerome das*, “Crystalline perfection, spectroscopic investigation and transport properties of triglycine zinc chloride NLO single crystal” *Physica B*, 405 (2010) 3929 - 3935.
39. *G. Cynthia Jemima Swarnavalli, Belina Xavier, V. Kannappan, and D. Roopsingh, V. Joseph*, “Ultrasonic and UV – Visible Absorption Studies On Gold Nanoparticles in Dilute Suspensions” *Synthesis and Characterization of Nanostructured Materials*, MacMilan Advanced Research Series, 381- 386 (2010)
40. *J. Packiam Julius, S.A. Rajasekar, A. Joseph Arul Pragasam, V. Joseph, P. Sagayaraj*, “Growth, Microhardness and Optical Characterisation of LAHP (L-Arginine hydrofluoride) single crystal” *Mat. Science and Engineering B*, 107 (2004) 259.

41. **V.Joseph**, V. Santhanam, D. Anceila, "Spectral and normal co-ordinate analysis on the molecule of Bis (Thiourea) Cadmium Chloride Single Crystal" Indian J.Phy. 78 (12) 2004
42. **V.Joseph**, S.Gunasekaran, V.Santhanam, "Photo Conductivity and dielectric studies of Potassium Pentaborate "Crystal (KB5) Bull Mater.Sci., 26(4) (2003).
43. **V.Joseph**, V.Santhanam, S.Gunasekaran, P.Sagayaraj, S.Ponnusamy "Vibrational Spectra and Analysis on the Molecule of Potassium Pentaborate Crystal (KB5)" Indian Journal of Pure & Applied Physics, 41 (2003).

Conference / Workshop Attended:

1. National Symposium on '**Ultrasonics**', 21-23 December 2009 held at VIT University, vellore.
2. National Workshop on **Nanomaterials – Synthesis, Characterization and Applications** held on 14th & 15th December 2006 at Alagappa University, Karaikudi - 630 003.
3. National conference on '**Advances in Technologically Important Crystals**' from 12th to 14th October 2006 held at Dept. of Physics, University of Delhi.
4. National Seminar on '**Crystal Growth**' from 24th to 26th February 2003 held at Crystal Growth Centre Anna University, Chennai.
5. Symposium on '**Fundamental of Crystal Growth**', 6th and 7th November 2000 held at Crystal Growth Centre, Anna University, Chennai.
6. National conference on '**Spectro Physics**' from 9th to 11th August 2000 held at Pachaiyappa's College, Chennai.
7. Workshop on '**International School on crystal growth methods and processes**' from 24th January to 4th February 2000 held at Crystal Growth Centre, Anna University, Chennai.
8. Seminar on 'Materials and Characterisation' on 28th February 2000. Organized by Dept. of Physics, Loyola College, Chennai.
9. Seminar on "Enhancing Autonomy" held on 10th February 1996 at Loyola College, Chennai.
10. Workshop in 'Total Quality Management in Classroom' on 5th December 1994 at Loyola College, Chennai.
11. National Symposium on '**Raman Spectroscopy**' held during January from 4th to 6th 1989 at Pondicherry University.

Countries Visited:

Singapore, Thailand, Myanmar, Vietnam, Cambodia, Indonesia, Srilanka, Maldives, Hong Kong, Macau and Malaysia.

Extra Curricular Activities During Student Days:

- Secretary, Physics Association, Loyola College during Post graduation (1986-87).
- Secretary, Veeramamuniver Literary Association, St. Joseph Hr.Sec.School, Thiruvannamalai, Dt. (1981).
- Member, Loyola College AICUF and NSS unit during under graduation (1982 – 84).
- Member, Loyola College Community Social Service unit during Post graduation (1985 - 86).

Other Achievements and Interests:

- Pioneering work done in the production of B.Sc. Lab Manual (2006).

Organising Academic and monetary assistance to poor students:

1. Organising workshop for school teachers of Tamil Nadu (1995 - till date).
2. Motivation & guidance to school students of Tamil Nadu (1995 - till date).
3. Instrumental in establishing **12 scholarships and medals** for the deserving, economically backward and meritorious students in Loyola College.
4. Established **“Poor Boys Fund”** to the tune of **10.5 lacs** in Loyola College.

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Chennai - 600 094

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Above mentioned facts are true to the best of my knowledge.

DR. V. JOSEPH