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## Present Position

Assistant Professor, Department of Physics, Madras Institute of Technology, Anna University, Chennai from December-2014.

## Present Additional Responsibility

- Programme Officer, Division of Applied Science and Humanities, Anna University, Chennai.

## Other Employment

- CSIR - Senior Research Fellow, Dept. of Physics, Bharathidasan University, Tiruchirappalli for 2 Years.
- Senior Research Fellow, Centre for Crystal Growth, SSN Colle of Engineering, Tamilnadu for 1 Year and 3 month.
- Assistant Professor, Dept. of Physics, PRIST University, Thanjavur for 4 Years.
- Postdoctoral Fellow (PDF), Dept. of Electrical Engineering, AIT, Toyota, Japan for 2 Years.

## Degree

- ❖ M.Sc. in PHYSICS , Jamal Mohamed College, Tiruchirappalli, Bharathidasan University, Tiruchirappalli - 24.
- ❖ B.Sc. in PHYSICS , Rajah Serfoji Govt. College, Thanjavur, Bharathidasan University, Tiruchirappalli - 24.

## Research Degree

- ❖ Postdoctoral Research in Engineering from Faculty of Electrical Engineering, Aichi Institute of Technology, Toyota, Japan, Aichi Institute of Technology, Toyota, Japan.  
Title: Fabrication of thin film devices - Field effect transistors.
- ❖ Ph.D. in Materials Science from Faculty of Science, Dept. of Physics, , Bharathidasan University.  
Title: Crystal Growth, Structural, and Optical Studies on Certain Organic and Semiorganic Nonlinear Optical Materials .

## Area of Specialisation

- > Materials Science

## Membership in Professional Organization

- > Life member in Photonic Society of India.

## Research Guidance

Number of Ph.D Scholars Guided : 1

## Papers Published in Journals

Research Papers Published in International Journals : 28  
Research Papers Published in National Journals : 1

1. "Optical and microhardness studies of semiorganic nonlinear optical material:L-histidine tetrafluoroborate", Crystal Research and Technology, published by John Wiley intenational. Vol. 38, Issue 1, pp. 986-991 (2003).
2. J. Ramajothi, S. Dhanuskodi, K. Nagarajan, "Crystal growth, thermal and optical and microhardness studies of tris(thiourea) zinc sulphate - a semiorganic nonlineaar optical material", Crystal Research and Technology, published by John Wiley intenational. Vol. 39, Issue 1, pp. 414-420 (2004).
3. S. Dhanuskodi, J. Ramajothi, "Crystal growth, thermal, and optical studies of L-histidine tetrafluoroborate - a semiorganic NLO material", Crystal Research and Technology, published by John Wiley intenational. Vol. 39, Issue 1, pp. 592-597 (2004).
4. M.Akkurt, S. Ozturk, J. Ramajothi, O. Buyukgungor, S. DHANUSKODI, "L-histidinium tetrafluorosuccinate - structure", Acta Crystallogaphica Section E , published by IUCR. Issue 1, pp. 0481-0483 (2004).
5. A. Pricilla Jeyakumari, J. Ramajothi, S. Dhanuskodi, "structural and mcrohardeness study of Bis(thiourea)cadmium chloride", Journal of Crystal Growth, published by Elsevier. Vol. 269, Issue 1, pp. 558-564 (2004).
6. A. Akkurt, S. Ozturk, J. Ramajothi, O. Buyukgunor and S. Dhanuskodi, "Poly[[triaquacadmium (ii) - miu3-lactato]dialactatoboron (1-)]", Acta crystallographica Section E , published by IUCR. Issue 1, pp. m632-m64 (2004).
7. Akkurt M, Yildirim S.O. Ramajothi J, Orhan B, Dhanuskodi S, "Poly[[triaquacadmium(II) - i•3 - lactato] dilactatoboron(1-)]", Acta Crystallographica Section E, published by IUCr. Issue 61, pp. m632-m634 (2005).

8. J. Ramajothi, S. Dhanuskodi, "Crystal growth, thermal and optical studies on phase matchable new organic NLO material for blue-green laser generation", *Journal of crystal growth*, published by Elsevier. Vol. 289, pp. 217-223 (2006).
9. J. Ramajothi and S. Dhanuskodi, "Crystal growth, thermal and optical studies on semiorganic nonlinear optical materials for blue green laser generation ", *Spectrochimica Acta Part A*, published by Elsevier. Vol. 68, pp. 1213-1219 (2007).
10. J. Ramajothi, S. Dhanuskodi and M. Akkurt, "Crystal growth of phase matchable new organic nonlinear optical material for UV laser generation ", *Spectrochimica Act Part A*, published by Elsevier. Vol. 69, pp. 1271-1276 (2008).
11. J. Ramajothi, S. Ochiai, K. Kojima, and T. Mizutani, " Performance of organic field-effect transistor based on Poly(3-hexylthiophence) as a semiconductor and titanium dioxide gate dielectrics by the solution process", *Japan Journal of Applied Physics*, published by The Japan society of Applied Physics. Vol. 47, Issue 11, pp. 8279-8283 (2008).
12. J. Ramajothi, S. Ochiai, K. Isogai, K. Kojima, and T. Mizutani, "Optical bistability of Poly(3-hexylthiophene)/polymethylmethacrylate composite thin film treated by organic gas", *Review of laser engineering*, published by Laser Society of Japan. Vol. 36, Issue 12, pp. 818-821 (2008).
13. Ramajothi J, Ochiai S, Rajesh N.P., "Optical Bistability of spin coated Poly(3-hexylthiophene)/polymethylmethacrylate (P3HT/PMMA) composite thin film", *Review of laser engineering*, published by Laser society of Japan. Vol. 36, Issue 1, pp. 1291 (2008).
14. J. Ramajothi, S. Ochiai, K. Kojima, and T. Mizutani, "Optical bistability of quasi-waveguide of Poly(3-octylthiophene)/ Polymethylmethacrylate composite film", *IEICE*, published by IEICE. Vol. 108, pp. 13-18 (2009).
15. J. Ramajothi, K. Kojima, T. Mizutani, and S. Ochiai, "Optical Bistability of Poly(3-octylthiophene)/Polymethylmethacrylate Composite Waveguides Prepared by Spin Coating", *Journal of vacuum society of Japan*, published by Vacuum society of Japan. Vol. 53, Issue 3, pp. 1-3 (2010).
16. J. Ramajothi, K. Kojima, T. Mizutani, and S. Ochiai, "Optical bistability of spin coated Poly(3-octylthiophene)/Polymethylmethacrylate composite waveguides", *IEEJ*, published by IEEJ. Vol. 130, Issue 2, pp. 176 (2010).
17. J. Ramajothi, S. Ochiai, N. P. Rajesh, K. Sethuraman, A. Ohashi, K. Kojima, K.Kojima, and T. Mizutani, "Optical bistability of spin coated Poly(3-hexylthiophene)(P3HT)/ PMMA composite thin film", *IEEJ*, published by IEEJ. Vol. 130, Issue 2, pp. 181 (2010).
18. J. Ru, J. Ramajothi, T. Mizutani, K. Kojima and S. Ochiai, "Morphology and third-order nonlinear optical properties of Vanadyl Phthalocyanine thin films on preheated KBr substrate", *IEEJ*, published by IEEJ. Vol. 130, Issue 2, pp. 176 (2010).
19. S. Ochiai, Uchiyama, S. Santhakumar, J. Ramajothi, and P.K. Shin, "Evaluation of the performance of organic thin film solar cell prepared Using th Active Layer of Poly[[9-(1-octylnonyl)-9H-carbazole-2.7-diy]-2.5-thiophenediyl-2.1.3-benzothiadiazole-4.7-Diyl-2.5-thi", *TEEM*, published by TEEM. Vol. 13, Issue 1, (2012).

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20. J. Ramajothi, "Crystal growth, thermal and optical studies on L-arginine Based Nonlinear optical Materials", Indian journal of Applied Research, published by Indian Journal applied research. Vol. 1, Issue 16, pp. 224 (2012).
  21. R. Muraleedharan U. Sathya and J. Ramajothi, " Effect of doping on the morphology of KAP nonlinear optical single crystal", International Journal of Chemtech Research , published by international journal of chemtech research. Vol. 7, pp. 2691-2696 (2014).
  22. Sivasankar G, Ramajothi J, " Aluminium doped zinc oxide (ZnO) thin film fabricated for semiconductor by spray pyrolysis technique", International journal of Chemtech Research , published by SPHINX Knowledge House. Vol. 8, Issue 11, pp. 497-501 (2015).
  23. Vidhya R, Muraleedharan R, Ramajothi J, "crystal growth, structural and optical studies of Bis(thiourea) cadmium chloride - a nonlinear optical material", Journal of Chemical and Pharmaceutical Sciences , published by JCHPS. Vol. 1, Issue 11, pp. 4-7 (2015).
  24. R. Muraleedharan and J. Ramajothi and Basheer Ahamed, "Crystal growth, morphology, spectral and optical studies of Tris(thiourea) Zinc sulphate- Nonlinear optical materials", International Journal of Chemtech Research , published by international journal of chemtech research. Vol. 8, pp. 165-170 (2015).
  25. G. Sivasankar and J. Ramajothi, "Surface topography, physical and optical properties of Cadmium Oxide (CdO) thin film fabricated by spray pyrolysis technique", International Journal of Chemtech Research , published by international journal of chemtech research. Vol. 7, pp. 1818 (2015).
  26. V. Vidhya, R. Muraleedharan and J. Ramajothi, "Effect of doping on the morphology of Tris(thiourea) Zinc sulphate Nonlinear optical materials", International Journal of Chemtech Research , Vol. 8, pp. 2012 (2015).
  27. Ramajothi J, "Investigation of Mechanical, Thermal and Third Order Nonlinear Optical Properties of L-Alanine Cadmium Chloride Single Crystal", International journal of Chemtech Research , published by SPHINX Knowledge House. Vol. 12, Issue 5, pp. 141-154 (2019).
  28. Mohana M, Muraleetharan, Ramajothi J, "Structure and mechanical studies of L-histidine doped Tris (thiourea) Zinc Sulphate - A NLO Material", European journal of molecular and Clinical Medicine, published by EJMCM. Vol. 7, Issue 4, pp. 2634 (2020).
  29. Vidhya R, Muraleedharan R, Ramajothi J, Vinitha G., " STRUCTURAL AND OPTICAL STUDIES OF GLYCINE BASED SINGLE CRYSTALS - A NONLINEAR OPTICAL MATERIAL", European journal of molecular and Clinical Medicine, published by EJMCM. Vol. 7, Issue 4, pp. 2622 (2020).

## Papers Presented in Programmes

Research Papers Presented in International Programmes	: 5
Research Papers Presented in National Programmes	: 8

1. J. Ramajothi, and S. Dhanuskodi, "FT- IR and FT-Raman studies in semiorganic nonlinear optical material: L-Histidine Tetrafluoroborate" presented in a National level conference on FT-IR and FT-Raman studies in semiorganic nonlinear optical material:L-Histidine Tetrafluoroborate, organised by CAT - Indore, India .
2. J. Ramajothi, A. Pricilla Jeyakumari and S. Dhanuskodi, "Synthesis, crystal growth and optical studies of semiorganic nonlinear optical material: Tris (thiourea) Zinc Sulphate" presented in a National level conference on Synthesis, crystal growth and optical studies of semiorganic nonlinear optical material: Tris (thiourea) Zinc Sulphate, organised by IIT Kharagpur, India, India .
3. J. Ramajothi, A. Pricilla Jeyakumari, S. Dhanuskodi, "Semicarbazone derivatives as potential organic NLO materials"" presented in a National level conference on Semicarbazone derivatives as potential organic NLO materials", organised by Anna University, India from 07-Aug-2000 to 08-Aug-2000.
4. J. Ramajothi, Shizuyasu Ochiai, and Teruyoshi Mizutani , "Second order nonlinear optical materials for frequency conversion in the blue region" presented in a National level conference on Second order nonlinear optical materials for frequency conversion in the blue region, organised by KUSAT, Cochin,, India from 09-Dec-2004 to 11-Dec-2009.
5. "Crystal growth and optical studies on semiorganic NLO material for frequency conversion: L-histidinium diphosphate" presented in a International level conference on Crystal growth and optical studies on semiorganic NLO material for frequency conversion: L-histidinium diphosphate, organised by BRNS- BARC Mumbai, India from 10-Jan-2005 to 13-Jan-2005.
6. "Classifications of Crystals and Their Applications" presented in a National level seminar on Classifications of Crystals and Their Applications, organised by SSN College of Engineering, india from 01-Apr-2006 to 02-Apr-2006.
7. "Properties of Crystals and Their Applications" presented in a National level seminar on Properties of Crystals and Their Applications, organised by SSN College of Engineering, India from 12-Aug-2006 to 13-Aug-2006.
8. "Optical bistability of spin coated Poly(3-hexylthiophene)(P3HT)/PMMA composite thin film" presented in a International level conference on Optical bistability of spin coated Poly(3-hexylthiophene)(P3HT)/PMMA composite thin film, organised by Nagoya Congress Centre, Nagoya, Japan, Japan from 30-Jan-2008 to 01-Feb-2008.
9. "Optical bistability of Poly(3-hexylthiophene)/Polymethylmethacrylate composite thin film treated by organic gas" presented in a National level conference on Optical bistability of Poly(3-hexylthiophene)/Polymethylmethacrylate composite thin film treated by organic gas, organised by Nagoya Congress Centre, Nagoya, Japan, Japan from 30-Jan-2008 to 01-Feb-2008.
10. "Effect of Polymethylmethacrylate molecular weight on the optical bistability of P3HT/PMMA composite thin films"" presented in a National level conference on Effect of Polymethylmethacrylate molecular weight on the optical bistability of P3HT/PMMA composite thin films", organised by Chubu University, Kozoji, Japan, Japan from 02-Sep-2008 to 05-Sep-2008.

11. J. Ramajothi, S. Ochiai, K. Kojima, and T. Mizutani, "Performance of Poly(3-hexylthiophene) field effect transistor with high dielectric constant gate insulator" presented in a International level conference on Performance of Poly(3-hexylthiophene) field effect transistor with high dielectric constant gate insulator, organised by ISEIM, Yokkaichi city Hall (IEEJ), Mie, Japan, Japan from 08-Sep-2008 to 11-Sep-2008.
12. S. Ochiai, J. Ramajothi, K. Kojima, and T. Mizutani, "Third-order nonlinear optical properties of regioregular Poly(3-hexylthiophene) thin film on quartz glass modified by HMDS and ODTS" presented in a International level conference on Third-order nonlinear optical properties of regioregular Poly(3-hexylthiophene) thin film on quartz glass modified by HMDS and ODTS, organised by ISEIM< Yokkaichi city Hall (IEEJ), Mie, Japan, Japan from 08-Sep-2008 to 11-Sep-2008.
13. "Structural, optical and thermal studies of a NLO material: Bis(thiourea) cadmium chloride" " presented in a International level conference on Structural, optical and thermal studies of a NLO material: Bis(thiourea) cadmium chloride" , organised by Madurai Kamaraj University, Madurai from 08-Mar-2009 to 09-Mar-2009.

### Current Sponsored Projects

1. "Single crystal growth and optical studies of Thiourea based materials for nonlinear optical Application" ( September-2015 - August-2016 ). Project Cost: 50000.00.
2. "Investigations of crystal growth, optical and mechanical properties of boron based efficient materials for optical applications" ( April-2016.. Project Cost: 600000.00.

### Experience Abroad

1. Visited Dept. of Electrical Engineering, AIT, Toyota, Japan, Japan from 03-Aug-2007 to 31-Mar-2010. Purpose of visit :Research - Postdoctoral Research.
2. Visited Dept. of Electrical Engineering, AIT, Toyota, Japan, Japan from 04-Nov-2011 to 25-Nov-2011. Purpose of visit :Special Lecture.
3. Visited Dept. of Electrical Engineering, AIT, Toyota, Japan, Japan from 07-Sep-2012 to 21-Sep-2012. Purpose of visit :Special Lecture.
4. Visited Dept. of Electrical Engineering, AIT, Toyota, Japan, Japan from 07-Nov-2013 to 15-Nov-2013. Purpose of visit :Special Lecture.