



Profile

M. Antony Arockiaraj

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Objective:

To become a successful professional in the field of teaching and research and to work for in an innovative and competitive world.

Academic Details:

| Examination/ Designation | University/Institution Name | Academic Year |
|--|--|--------------------------|
| Assistant Professor | St.Joseph's college, Trichy. | 2015 |
| Assistant Professor | St.Joseph's college, Trichy. | 2014 |
| Ph.D - Physics (Material Science) | University of Madras- Loyola College, Chennai-34 | 2010-2013 |
| M. Phil (Physics) | Bharathidasan University- St.Joseph's college, Trichy. | 2008-2009 |
| M.Sc (Physics) | Bharathidasan University- St.Joseph's college, Trichy. | 2006-2008 |

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| B.Sc (Physics) | Bharathidasan University- St.Joseph's college, Trichy. | 2003-2006 |
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Ph.D Dissertation Title:

“STUDIES ON THE GROWTH AND CHARACTERIZATION OF STILBAZOLIUM FAMILY CRYSTALS OF DAST, DSSS AND DSTMS WITH POTENTIAL TERAHERTZ PROPERTIES”

Working Research Area:

- ✚ Development of organic crystals for Terahertz emission.
- ✚ Synthesis and growth of materials suitable for photonics device fabrication.
- ✚ Growth of bulk Nonlinear optical organo-metallic crystals with potential application in acousto-optics and laser industry.
- ✚ Development of laser materials suitable for various applications including optical waveguides, optical switches, optical data storage devices, color displays and optical computing.
- ✚ Synthesis and characterization of II-VI semiconductor nanoparticles for solar cell/photocatalysis/photonics applications.

List of major equipment handled:

- ✓ Spectrophotometer SHIMADZU UV-2450 model
- ✓ Constant temperature bath with refrigeration (Gemeni scientific)
- ✓ Melting point apparatus (Inlab Equipment (Madras) Pvt.Ltd.)
- ✓ Millipore India (Servell Engineers)
- ✓ PVD coating Unit (Thin film)

Computational skills:

- ◆ Working experience with operating system WINDOWS 2000//XP
- ◆ Packages: MS Office, Adobe Photoshop, Origin

Others skills:

- Developed interpersonal, team work and time management skills.
- Social work trained by SHEPHERD (Extension department) from St Joseph's College, Trichy.
- Presented research findings at conferences in written, poster and oral form
- Active participation in arranging the national and international conferences
- Technical and patent literature searching and analyzing using various search engines such as web of science, Scopus etc.
- Excellent analytical skills, oral and written communication skills.

Research Cum-Administration Experience:

- ❖ Document penetrating for getting financial assistance from University Grand Commission- Central for Potential Excellence (**UGC-CPE**) for Selected Colleges under Phase-1 during **XIth Plan** Period.
- ❖ Application Performa for fresh recognition of **DST-SIROs** technology management programme Department of Scientific and Industrial Research Organization (DSIR), Govt of India.
- ❖ Proposal for Financial Assistance from **UGC-PG Grant** for Development of Postgraduate Courses in the College during Eleventh Plan period (2010-2012).

Personal Details:

Age & Date of Birth : 28 years, 24-07-1986
Father's Name : A. Michael Jayaraj
Sex : Male

Religion : Christian
Marital Status : Single
Citizenship : Indian

List of publications:

No. of International Journals : 08
No. of International Conference : 02
No. of national Conference : 15
No of Orientation programme 01

List of Research Publications

International Journals:

1. Growth, thermal, dielectric and mechanical properties of L-Phenylalanine-Benzoic acid: A nonlinear optical single crystal, S. Tamilselvan, M. Vimalan, I. Vetha Potheher, S. Rajasekar, R. Jeyasekaran, **M. Antony Arockiaraj** and J. Madhavan, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, **114 (2013) 19-26.**
2. Investigation on physico-chemical properties of semiorganic nonlinear optical L-Lysine sulphate single crystal, J. Suja Rani, M. Meena, C. K. Mahadevan, **M. Antony Arockiaraj**, S. Rajasekar, M. Vimalan and K. Jaya Kumari, **Advances in Applied Science Research**, **4 (2) (2013) 286-297.**
3. Growth and characterization of semiorganic nonlinear optical LHHCl-LHB mixed crystals, J. Suja Rani, C. K. Mahadevan, **M. Antony Arockiaraj**, S. Rajasekar, M. Vimalan and K. Jaya Kumari, **Archives of Applied Science Research**, **5 (2) (2013) 213-221.**

4. Growth, thermal and optical properties of L-Asparagine Monohydrate NLO single crystal, F. Yogam, **M. Antony Arockiaraj**, R. Jeyasekaran, M. Vimalan, I. Vetha Potheher and P. Sagayaraj, **Journal of Thermal Analysis and Calorimetry**, (2013) DOI 10.1007/s10973-013-3138-8.
5. Growth, structural, optical and thermal properties of potential THz material: N, N-dimethylamino-N'-methylstilbazolium 4-styrenesulphonate, R. Jerald Vijay, N. Melikechi, Tina Thomas, R. Gunaseelan, **M. Antony Arockiaraj** and P. Sagayaraj, **Journal of Crystal Growth**, 338 (2012) 170-176.
6. Investigation on the growth of DAST crystals of large surface area for THz applications, R. Jerald Vijay, N. Melikechi, Tina Thomas, R. Gunaseelan, **M. Antony Arockiaraj** and P. Sagayaraj, **Material Chemistry and Physics**, 132 (2012) 610-617.
7. Growth, linear and nonlinear optical and, laser damage threshold studies of organometallic crystal of MnHg(SCN)_4 , T. Rajesh Kumar, R. Jerald Vijay, R. Jeyasekaran, S. Selvakumar, **M. Antony Arockiaraj**, P. Sagayaraj, **Optical Materials** 33 (2011) 1654-1660.
8. Growth, structural and thermal analysis of DSSS single crystals, **M. Antony Arockiaraj**, Tina Thomas, R. Jerald Vijay and P. Sagayaraj, **American Institute of Physics, Conf. Proc.** 1447, (2011) 1293-1294.

Declaration

I hereby declare that all the information mentioned above is true to the best of my knowledge.

Yours faithfully,

(M.ANTONY AROCKIARAJ)