



**C.ABDULHAKEEMCOLLEGE OFENGINEERINGANDTECHNOLOGY**  
HakeemNagar,Melvisharam-632509

**FACULTY PROFILE**

|                                                   |                                                       |   |                       |   |  |
|---------------------------------------------------|-------------------------------------------------------|---|-----------------------|---|--|
| Name                                              | Dr. T. BHARTHASARATHI                                 |   |                       |   |  |
| Gender                                            | Male                                                  |   |                       |   |  |
| PresentDesignation                                | ASSISTANT PROFESSOR                                   |   |                       |   |  |
| Dateof Joining                                    | 25.09.2025                                            |   |                       |   |  |
| MobileNo.                                         | 8610100745                                            |   |                       |   |  |
| FacultyCode                                       | Faculty Code<br>5016518                               |   |                       |   |  |
| Highest Educational Qualification                 | Ph.D                                                  |   |                       |   |  |
| AdditionalQualification                           | GATE/NET/SLET                                         | - |                       |   |  |
| TotalworkingExperience                            | 11 Years                                              |   |                       |   |  |
| Publications                                      | Journals                                              | 6 |                       |   |  |
|                                                   | International Conferences                             | - | National Conferenc es | 8 |  |
| No.ofPatent                                       | Nil                                                   |   |                       |   |  |
| Noof Workshops/Seminars/ Conferences/ FDPattended | FDP:02<br>WORKSHOP:<br>03                             |   |                       |   |  |
| NoofWorkshops/Seminars/ Conferences/ FDPorganized | International Conference organized 2                  |   |                       |   |  |
| NoofUG/PG/Ph.DGuidance:                           | NIL                                                   |   |                       |   |  |
| MembershipinProfessionalBodies                    | NIL                                                   |   |                       |   |  |
| Awards/RecognitionReceived                        | Received Cash Award for Anna University Exam results. |   |                       |   |  |
| OtherResponsibilities,ifany                       | Advisor for First year ECE students                   |   |                       |   |  |

## **LIST OF PUBLICATIONS**

### **Paper published in International journal**

1. Growth and characterization of biadmixtured TGS single crystals, **T. Bharthasarathi** V. SivaShankar, R. Jayavel, P. Murugakoothan, Journal of crystal Growth, 311(2009)1141-1151.
2. Growth and characterization of new semi organic nonlinear optical Zinc Guanidinium Sulfate single crystal, V. Siva shankar, R. Siddheswaran, **T. Bharthasarathi**, P. Murugakoothan, Journal of crystal growth 311 (2009) 2709-2713.
3. Studies on solution growth L-cystein hydrochloride monohydrate single crystals, M. Loganayaki, R. Siddheswaran, V. Sivashankar, **T. Bharthasarathi**, P. Murugakoothan, International journal of materials science 4 (2009) 697-706
4. Crystal growth, thermal, and optical studies on a metal-organic nonlinear optical material dipotassium boro maleate, **T. Bharthasarathi**, P. Arulmozhichelvan, P. Murugakoothan, Materials letters 13 (2010) 1506-1509
5. Studies on the effect of L-glutamine on morphology, structure, optical, mechanical and electrical properties of TGS crystal, **T. Bharthasarathi**, O.P.Thakur, P. Murugakoothan, Physica B 405(2010) 3943–3948
6. Attainment of growth stability through the widening of Ostwald– Mier’s zonewidth: A novel technique **T. Bharthasarathi**, P. Murugakoothan, Optik 125 (2014) 6641–6647

### **Conferences/Seminars/ Symposium and workshop**

1. Growth and Characterizations of Potassium Maleate (KMA) single crystals, V. Siva shankar, R. Siddheswaran, **T. Bharthasarathi**, P. Murugakoothan, “National Conference on recent advances in molecular structure (NCMS-2007)”, Arupadai Veedu Institute of Tech., Vinayaka Mission’s University, Paiyanoor, Chennai-603104, India, 19<sup>th</sup>-20<sup>th</sup> July 2007.
2. Growth and Characterization of L-Cysteine Hydrochloride Monohydrate Single Crystal, M. Loganayaki, R. Siddheswaran, V. Siva shankar, **T. Bharthasarathi**, P. Murugakoothan “National conference on Recent Advances in Molecular Structures” Arupadai Veedu Institute of Tech., Vinayaka Mission’s University, Paiyanoor, Chennai-603104, India, 19<sup>th</sup> -20<sup>th</sup> July 2007.
3. Growth and characterization of Hydrogen bis (l-lysine) dichloride perchlorate: A nonlinear optical crystal, M. Loganayaki, R. Siddheswaran, V. Siva shankar, **T. Bharthasarathi** P. Murugakoothan “National Seminar On Crystal Growth of Non-Linear Optical Materials (NSCG-2008)” National college, Trichy, March, 3rd-4th, 2008.
4. Growth and characterization of L-Proline Potassium Tartrate: A non – linear optical crystal”, M. Loganayaki, R. Siddheswaran, V. Siva shankar, **T. Bharthasarathi** P. Murugakoothan “National Seminar On Crystal Growth of Non-Linear Optical Materials (NSCGOM-2008)” National college, Trichy, September, 25-26, 2008.
5. Synthesis, Growth and characterization of L-Methionine doped triglycine sulfate single crystal, **T. Bharthasarathi** V. Siva shankar, R. Siddheswaran, P. Murugakoothan “6th National Conference on Emerging Trends in Crystal growth and Nano materials (NECAN)”, Loyola College February 28<sup>th</sup> & 29<sup>th</sup> 2008 Chennai.

6. Growth and characterization of L-Glutamine doped TGS (LGTGS) single crystal, **T. Bharthasarathi** V. Siva shankar, R. Siddheswaran, P. Murugakoothan “Proceedings of regional level seminar on crystal growth and nano science” 30th, 31th August & September 1<sup>st</sup> 2007 Aditanar College of Arts & Science Tiruchendur.
7. Studies on biadmixture TGS single crystal, **T. Bharthasarathi** and P. Murugakoothan “13th National seminar on crystal growth” 27th-29th January-2009 SSN College of Engineering, Chennai.
8. Synthesis, Growth, Structural, Optical and Thermal Properties of a New Semiorganic L-Phenylalanine L-Phenylalaninium perchlorate (LPPAPC) single crystal, V. Siva Shankar, R. Siddheswaran, **T. Bharthasarathi**, P. Murugakoothan “13th National seminar on crystal growth organized by Centre for Crystal Growth” SSN College of Engineering, Chennai-603110, India, January 27-29, 2009.
9. A novel method of enhance metastable zone width for crystal growth from solution, **T. Bharthasarathi**, V. Siva Shankar, P. Murugakoothan “ National conference on recent trends in crystal growth, thin film and nano science structural materials” 5th and 6th August - 2009 Aditanar College of Arts & Science Tiruchendur.
10. Crystal growth, thermal and optical studies on a metal-organic nonlinear optical materials for DKBM single crystal, **T. Bharthasarathi** and P. Murugakoothan “6th National symposium and conference on solid state chemistry and allied areas (ISCAS)” November – 2009, VIT, Vellore.
11. Stabilized growth of barium nitrate crystal by increasing the Ostwald - Miers region, **T. Bharthasarathi**, P. Arunmozhichelvan, P. Murugakoothan, “14<sup>th</sup> National seminar on crystal growth” 10 and 12, March – 2010, VIT, Vellore.
12. Studies on L-Methionine doped TGS crystal, **T. Bharthasarathi** and P. Murugakoothan “National conference on perspective single laser & spectroscopy (NCPLAS-2009)” Women Christian College, Chennai
13. A new nonlinear optical material L-alanine hydrochloride monohydrate (LAHCl) single crystal, **T. Bharthasarathi** and P. Murugakoothan “Recent Advances in Crystal Growth and Nano Science” 26<sup>th</sup> & 27<sup>th</sup> March – 2010 Kongu Engineering College, Erode.