LIST OF PUBLICATIONS

Publications in International Journals

1. Highly textured ZnO thin films for green: a novel economical preparation and approachment for optical devices, UV lasers and green LEDs
   K.Ramamoorthy, M.Arivanandhan K.Sankaranarayanan and C.Sanjeeviraja

2. Microbial inhibition, growth of Li⁺-doped LAP single crystals and their characterization
   N.Kavitha, M.Arivanandhan, K.Ramamoorthy, K.Ragavendran and K.Sankaranarayanan

3. A novel way of modifying the thermal gradient in Vertical Bridgman-Stockbarger Technique and studies on its effect on the growth of Benzophenone single crystals
   M.Arivanandhan, K.Sankaranarayanan, K.Ramamoorthy, C.Sanjeeviraja and P.Ramasamy

   M.Arivanandhan, K.Sankaranarayanan, K.Ramamoorthy, C.Sanjeeviraja and P.Ramasamy

5. Ethyl p-amino benzoate (EPAB): a novel organic non linear optical material for optical devices
   M.Arivanandhan, A.Ramyalakshmi, R.Rathikha, R.Gopalakrishnan, C.Sanjeeviraja and K.Sankaranarayanan,

6. Optical frequency doubling in micro tube Czochralski (μT-CZ) grown benzophenone single crystals
   M.Arivanandhan, K.Sankaranarayanan, C.Sanjeeviraja, A.
   Arulchakkaravarthi and P.Ramasamy
7. Micro tube-Czochralski (μ-Cz) growth of bulk benzophenone single crystal for nonlinear optical applications
   **M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy, C. Sanjeeviraja and P. Ramasamy**

8. Growth of Urea Doped Benzophenone Single Crystal for Non-Linear Optical Applications

9. Unidirectional Growth of Ethyl P-amino benzoate single crystal by Microtube-Czochralski (μT-CZ) technique for NLO applications
   Optics Communications (under review) 2005.
Papers presented in National/International Seminars/Symposia

1. Effect of pH And Number of Dipping on Structural, Optical And Photoluminescence Properties of Chemically Deposited ZnO Thin Film
   **M.Arivanandhan, K.Ramamoorthy, K.Sankaranarayanan and C.Sanjeeviraja**
   32nd National Seminar on Crystallography.
   Jammu, October 24-26, 2002.

2. A Czochralski pulling system based on thermal expansion principle of a metal - a feasibility investigation
   **M.Arivanandhan, K.Ramamoorthy, K.Sankaranarayanan, C.Sanjeeviraja and P.Ramasamy**

3. High optical quality ZnO thin films for gas sensor applications: chemical bath deposition and characterization,
   K.Ramamoorthy, **M.Arivanandhan**, K.Sankaranarayanan and C.Sanjeeviraja
   Ninth national seminar on crystal growth (NSCG-9) Crystal Growth Centre, Anna University, Chennai, Feb. 24-26, 2003.

4. Highly oriented ZnO thin films for green LEDs: a novel economical approach in preparation and characterization
   K.Ramamoorthy, **M.Arivanandhan** K.Sankaranarayanan and C.Sanjeeviraja

5. Growth of Organic Single crystals by transparent vertical Bridgman technique and its characterization
   **M.Arivanandhan, K.Sankaranarayanan, K.Ramamoorthy, C.Sanjeeviraja and P.Ramasamy**

6. Micro tube- Czochralski (μt-Cz) growth of bulk organic single crystal for nonlinear optical applications
   K.Sankaranarayanan, **M.Arivanandhan** K.Ramamoorthy and C.Sanjeeviraja
7. Effect of temperature gradient on the growth of benzophenone single crystals in improved Bridgman-Stockbarger technique

M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy, C. Sanjeeviraja and P. Ramasamy

8. Investigation on the roles of tri lithium citrate as an effective microbial inhibitor and for the growth of Li: LAP single crystals

N. Kavitha, M. Arivanandhan, K. Ramamoorthy, K. Ragavendran and K. Sankaranarayanan


M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy, C. Sanjeeviraja and P. Ramasamy

10. Second Harmonic Generation in Micro Tube Czochralski (µT-Cz) grown benzophenone single crystals

M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy, C. Sanjeeviraja, and P. Ramasamy

11. Optical studies on Micro tube Czochralski grown benzophenone single crystal

M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy and C. Sanjeeviraja

12. Studies on the growth and properties of 4-nitro-4'methoxy -3'-chloro benzyldene aniline

A. Nixon Azariah, G. Ravi, K. Sankaranarayanan, M. Arivanandhan, Ra. Shanmugavadivu M. Noel
13. Investigations on the role of Urea in benzophenone-ethanol-urea system and growth of urea doped benzophenone Single Crystals
M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy, C. Sanjeeviraja and P. Ramasamy

M. Arivanandhan, A. Ramyalakshmi, R. Rathika, K. Sankaranarayanan and P. Ramasamy,

15. Growth of Li$^+$- doped LAP single crystals for SHG applications

16. Growth of ethyl p-amino benzoate single crystals with high SHG efficiency than KDP
M. Arivanandhan, A. Ramyalakshmi, R. Rathika, K. Sankaranarayanan and C. Sanjeeviraja

17. Growth and SHG measurement on Ethyl P-amino benzoate a novel material for optical devices
M. Arivanandhan, A. Ramyalakshmi, R. Rathika, K. Sankaranarayanan and C. Sanjeeviraja

18. Micro tube Czochralski growth of Ethyl P-amino benzoate single crystals for frequency conversion devices
19. Microtube Czochralski Growth of Benzophenone and Benzocaine Single Crystals and their characterization
   **M. Arivanandhan**, C. Sanjeeviraja and K. Sankaranarayanan

20. Growth of Potassium dihydrogen orthophosphate single crystals by Sankaranarayanan-Ramasamy method
   N. Balamurugan, and **M. Arivanandhan**

21. Growth of Benzocaine single crystals from solution and its characterization
   A. Ramyalakshmi, **M. Arivanandhan**, R. Rathikha, R. Gopalakrishnan
   C. Sanjeeviraja and K. Sankaranarayanan

22. Growth of 3-methoxy 4-hydroxy benzaldehyde (MHBA) single crystals by slow solvent evaporation technique for SHG applications
   V. Vasudevan, S. Kumaresan, **M. Arivanandhan**, C. Sanjeeviraja and K. Sankaranarayanan


24. Growth of Potassium dihydrogen orthophosphate single crystals by Sankaranarayanan-Ramasamy method
   N. Balamurugan and **M. Arivanandhan**

   V. Natarajan, **M. Arivanandhan**, R. Gopalakrishnan and K. Sankaranarayanan

26. FITR Investigation on the role of Cd⁺ concentration in synthesis of Cadmium Mercury Thiocyanate (CMTC)
   V. Selvakumar, S. Gomathi, **M. Arivanandhan** and K. Sankaranarayanan

27. Microtube Czochralski (µT-Cz) Growth of a novel organic NLO single crystal for frequency conversion devices
M.Arivanandhan, K.Sankaranarayanan, C.Sanjeeviraja and P.Ramasamy
16th American Conference on Crystal Growth (ACCG-16), Montana, USA, 10-15, July 2005.

28. Laser damage threshold studies on <110> benzophenone single crystals grown by Uniaxially solution-crystallization method of Sankaranarayanan-Ramasamy
G.K.Samanta, P.K.Datta and P.Ramasamy