

## CURRICULUM VITAE



**1. Name** : **Dr.K.Marimuthu**

**2. Date of Birth** : **04.09.1972** Sex : **Male**

**3. Department** : **Physics**

**4. Designation** : **Asst. Professor**

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### **6. Academic Qualifications:**

Ph.D., :Gandhigram Rural University, Gandhigram - 2002

M.Sc., :Bharathidasan University, Tiruchirappalli - 1994

B.Sc., :Bharathidasan University, Tiruchirappalli - 1992

**7. Teaching experience:**

Teaching : 6 years

Research : 10 years

**8. Current area of Research:**

*Luminescence, Synthesis of Glass materials and Ceramics*

**9. Membership in Professional bodies**

1. Life member - Luminescence Society of India

2. Life member -Indian Society for Technical Education

**10. Membership Academic bodies**

1. Member, Board of studies in Physics, Gandhigram Rural University, Gandhigram.

**11. No. of Ph.D's Guiding : Four**

**12. Participation in Extra-curricular activities:**

- NSS program officer

- Red Ribbon Club-Program officer

**13. List of articles published/ presented**

1. A compressing machine for briquetting biomass waste into usable fuel  
**K.Marimuthu**, S.Arumugam, S.Ramamurthy and E.Savarimuthu – Boiling Point. 43 Autumn (1999) 8-9.
2. Microprocessor based stepper controlled Beam and Total solar radiation measuring system

*Proceedings of the 23<sup>rd</sup> National Renewable energy convention '99 "Renewable Energies on Energy Efficiency for sustainable Development" held at Devi Ahilya Vishwavidyalaya, Indore during 20-22<sup>nd</sup> December 1999.*

**K.Marimuthu, S.Venkataraman, G.Muralidharan**

3. *Effect of bandgap shrinkage on the graded band gap solar cell*  
*Proceedings of the 23<sup>rd</sup> National Renewable energy convention '99 "Renewable Energies an Energy Efficiency for sustainable Development" held at Devi Ahilya Vishwavidyalaya, Indore during 20-22<sup>nd</sup> December 1999.*  
**K.M.Ajith, K.Marimuthu, K.Jayakumar**
4. *Microprocessor based stepper controlled beam and total solar radiation measuring system*  
**K.Marimuthu, S.Venkataraman and G.Muralidharan – BULL IAPT July, (2001) 211-214.**
5. *Apatites and Britholites, are they akin – as probed by Eu<sup>3+</sup> luminescence?*  
**K.Marimuthu, L.C. Nehru, A.Mani, R.Ramesh, G.Muralidharan and R.Jagannathan – J.physics: condens.matter 13 (2001) 553-547.**
6. *Ce<sup>3+</sup> - doped stillwellites: a new luminescent system with strong ion lattice coupling*  
*L.C. Nehru, K.Marimuthu, M.Jayachandran, Chung-Hsin Lu and R.Jagannathan - J.physics. D:Appl.Phys. 34 (2001) 2599-2605.*
7. *Microprocessor based sound pressure recorder*  
**K.Marimuthu, G.Muralidharan, P.Vickraman, K.Sasi Kumar and A.Edward Durai – J.Curr.Sci 3(1), (2003) 125-128.**
8. *Microprocessor based capacitance meter*  
*Ramya Krishnan, K.Marimuthu, G.Muralidharan, E.Savarimuthu and S.Ramamurthy – BULL IAPT June 2004.*
9. *Photoluminescence of Sm<sup>3+</sup> ions in sodium borate and sodium fluoroborate glasses*  
*National Conference on Advanced Materials, Devices and Technologies (NCAMDT-2008), held at Department of Physics, Sri Venkateswara University, Tirupati, India during February 20-22, 2008.*  
**K.Marimuthu, S.Surendra Babu, G.Muralidharan, C.K.Jayasankar**

10. *Spectroscopic investigations on Eu<sup>3+</sup> doped alkali fluoroborate glasses*  
53<sup>rd</sup> DAE Solid State Symposia (DAE-SSPS 2008), organized by BARC, Mumbai during 16<sup>th</sup> to 20<sup>th</sup> December 2008.  
**K.Marimuthu**, S.Surendra Babu, G.Muralidharan, S.Arumugam  
C.K.Jayasankar
11. *Microprocessor based solar insolation recorder*  
**K.Marimuthu**, S.Venkataraman, R.V.Senthilkumar and A.Pandi – J.Instrum. Soc.India, 29 (4) 187-190.
12. *Structural and optical studies of Eu<sup>3+</sup> ions in alkali borate glasses*  
**K. Marimuthu**, S. Surendra Babu, G. Muralidharan, S.Arumugam, C. K. Jayasankar *Physica Status Solidi a*, 206 (2009) 131.
13. *Structural and spectroscopic investigations on Eu<sup>3+</sup> doped alkali fluoroborate glasses*  
**K.Marimuthu**, R.T.Karunakaran, S.Surendra Babu, G.Muralidharan, S.Arumugam, C.K.Jayasankar, *Solid State sciences* 11 (2009) 1297.
14. *Structural, Optical and Thermal investigations on Dy<sup>3+</sup> doped NaF-Li<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub> glasses,*  
R.T.Karunakaran, **K.Marimuthu**, S.Surendra Babu, S.Arumugam, Article in press: *Physica B*, 404 (2009) 3995.
15. *Structural, optical and thermal studies of Eu<sup>3+</sup> ions in lithium fluoroborate glasses,*  
R.T. Karunakaran, **K.Marimuthu**, S.Surendra Babu, S. Arumugam, *Solid State Sciences*, 11 (2009) 1882.
16. *Structural and Optical studies of Nd<sup>3+</sup> ions in sodium borate and sodium fluoroborate glasses*  
*International conference on Active/Smart Materials held at Thiagarajar college of Engineering, Madurai, India during 7<sup>th</sup> to 9<sup>th</sup> January 2009*  
R.T.Karunakaran, **K.Marimuthu**, S.Surendra Babu, S.Arumugam
17. *Photoluminescence and FTIR of Dy<sup>3+</sup> in Sodium Lithium Fluoroborate glasses*  
*National conference on Luminescence and its Applications (NCLA-2009) held at Jadavpur University (JU) Kolkata, India during 19<sup>th</sup> to 20<sup>th</sup> February 2009*  
R.T.Karunakaran, **K.Marimuthu**, S.Surendra Babu, S.Arumugam, G.Muralidharan, C.K.Jayasankar
18. *Spectroscopic investigations on Dysprosium doped Alkali Fluoroborate glasses*

*National conference on Luminescence and its Applications (NCLA-2009) held at Jadavpur University (JU) Kolkata, India during 19<sup>th</sup> to 20<sup>th</sup> February 2009*

*R.T.Karunakaran, **K.Marimuthu**, S.Surendra Babu, S.Arumugam*

19. *A drying model and performance analysis of a forced solar hot air drying chamber for castor capsules*

*National conference on Energy Security for Rural Development held at Gandhigram Rural University (GRU) TamilNadu, India on 26<sup>th</sup> March 2009*

***K.Marimuthu**, M.Sivaraman, S.Arumugam.*