

## Curriculum vitae

***Dr.P.REVATHI***

### **Professional Address**

Assistant Professor  
PG & Research Department of Physics,  
Jamal Mohamed College(A),  
Tiruchirappalli-620023.  
Tamil Nadu, India.  
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### **Contact Address**

D/O A. Palanisamy,  
35/40, Periyamilagu Parai  
Medical College (Opp)  
Collector Office Road  
Trichy (DT) 620 001,  
Tamil Nadu, India.

### **Objective**

Aspire to build a career in a corporate environment, which will help me to explore myself fully to my potential with an immense cope for learning, growth and achievement. I am willing to work as a key player in challenging & creative environment. To do a challenging works in the field of Synthetic Organic halogenides and metal halogenides.

### **Personal Information**

**Current Position:** **Assistant Professor of Physics**

Department of Physics  
Jamal Mohamed College(A)  
Tiruchirappalli, Tamilnadu-India.

**Research Area:** **Crystal Growth and Characterization and Nano materials**

**Research advisor:** Head and Associate Professor, Periyar E.V.R college ,  
Dr. T.Balakrishnan.

**Science discipline:** **Synthesis of organic and metal organic.**

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**Date of Birth:** 16. 06. 1991

**Nationality:** Indian

### Research Skills

#### Technical Skills:

- ❖ Well versed in applying spectroscopic techniques like FT-IR, UV-Visible, spectrometry, Dielectric measurement and Optical Microscope *etc.*
- ❖ Aware of MS Office, Chem. Draw, Origin software and Computer-based literature search technique (Sci-finder).

#### Distinctive Achievements / Awards:

- ❖ **Senior Research Fellowship** (October 2016 – 2018), Dr. T.Balakrishnan - CSIR Emeritus Scientistship Scheme L – Lysine derivatives: Synthesis, Structure solution, Crystal Growth, Optical, Spectral, Thermal, Mechanical and Nonlinear optical properties. **Council of Scientific and Industrial Research**, Government of India.
- ❖ **Junior Research Fellowship** (June 2014 – 2016), Dr. T.Balakrishnan - TNSCST Scheme “Synthesis, Crystal growth, Characterization, Crystal structure and NLO properties of halogenides and metal halogenides of Glycine” **Tamilnadu State council for Science and Technology** Government of India.

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### Research Experience

**June, 2014 -2019:** Research scholar  
PG & Research Department of Physics,  
Periyar E.V.R. College,  
Tiruchirappalli-62 023.  
Tamil Nadu, India.

**Title of Thesis:** Synthesis, Crystal Growth and Characterization of Halogenides and Metal Halogenides of Glycine

### Academic background

**Dec, 2014-2019:** Research scholar  
PG & Research Department of Physics,  
Periyar E.V.R. College,  
Tiruchirappalli-620020.  
Tamil Nadu, India.

**2012-2014:** **M. Sc., in Physics**, First class Distinction, (80.60 %)  
Periyar E.V.R College,  
Affiliated to Bharathidasan University,  
Tiruchirappalli, Tamilnadu, India.

**2009- 2012:** **B. Sc., in Physics**, First class, (76.35%)  
Periyar E.V.R College,  
Affiliated to Bharathidasan University,  
Tiruchirappalli, Tamilnadu, India.

### List of Publications

1. **P. Revathi**, T. Balakrishnan, K. Ramamurthi, S. Thamocharan, *Crystal structure of catena -poly [[[triquastrongtium]-di- $\mu$ 2-glycinato] dibromide]*, Acta Cryst. (2015) E71 875 – 878  
**Doi: 10.1107/S2056989015012219**
2. *Crystal growth, structural, optical, mechanical and thermal properties of a Third - order nonlinear material bis-glycine lithium bromide monohydrate single Crystal*, T. Balakrishnan, **P. Revathi**, S. Sakthivel and K.Ramamurthi, Journal of Taibah University for Science, 2018, Vol. 12, no. 2, 208 – 217.  
**Doi: <https://doi.org/10.1080/16583655.2018.1451106>**
3. T. Balakrishnan, **P. Revathi**, A. Krishnaveni, J. Thirupathy, K. Ramamurthi, “Structural, Dielectric, thermal and antibacterial properties of a ferroelectric single crystal: bis-glycine cobalt sulphate pentahydrate” in Journal of Materials Science: Materials in Electronics–**DOI:10.1007/S10854-018-9792-7**.
4. **P. Revathi**, J. S. Mohan, Balakrishnan, K. Ramamurthi and S.Thamocharan, Crystal structure and Hirshfeld surface analysis of poly[[lithium-di-l3-glycine]perchlorate], **Acta Cryst. (2019)**. E 75, 134 – 138.  
**DOI:10.1107/S2056989018018145**
5. S. Sakthivel, T. Balakrishnan, **P. Revathi** and P. Jaikumar, *Growth, Structural, Optical, Thermal and Mechanical properties of Copper Glutamate Dihydrate Single crystal*, Journal of Applied Physics Vol.9, Issue 4, 57 – 67.  
**DOI: 10.9790/4861-0904035767**.

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6. P. Jaikumar, **P. Revathi**, T. Balakrishnan and S. Sakthivel Growth and Characterization of pure and Mg – doped L – Lysine Monohydrochloride single crystals, IJRAR- International Journal of Research and Analytical Reviews Vol.5, Issue 3, 556 – 565.

### Presentation & Participation in Conferences, Workshops and Seminars

- ❖ Presented a paper entitled “*Crystal growth, structural, optical, mechanical and dielectric studies of  $\gamma$  – glycine single crystals in the presence of boric acid*”, **P. Revathi**, S. Sathiskumar and T. Balakrishnan, Devanga Arts College, Aruppukottai, December 22 – 23, 2014.
- ❖ Presented a paper entitled “*Crystal growth, structural, optical, mechanical and dielectric studies of glycine lithium bromide single crystals*” **P. Revathi** and T. Balakrishnan, Bharathiar University, Coimbatore, March 18 – 20, 2015.
- ❖ Presented a paper entitled “*Crystal growth, structural, optical, mechanical and dielectric studies of  $\gamma$  - glycine single crystals in the presence of potassium nitrate*” **P. Revathi**, S. Sakthivel and T. Balakrishnan, Gandhigram University, Dindigul, December 14 – 15, 2015.
- ❖ Presented a paper entitled “*Studies on the Growth and Characterization of Bisglycine Cobalt Sulphate – A Novel Semiorganic Third Order Nonlinear optical Single Crystal*” **P. Revathi**, S. Karthik and T. Balakrishnan, Bhabha Atomic Research Centre, Mumbai January 19 – 21 2016.
- ❖ Presented a paper entitled “*Crystal growth and characterization of L - Lysine doped malic acid single crystal*” **P. Revathi** and T. Balakrishnan, Holy Cross College, Trichy, January 6 -7 2017.
- ❖ Presented a paper entitled “*Synthesis, crystal growth and characterization of new semiorganic NLO Bisglycine Magnesium Sulphate decahydrate single crystal*”, **P. Revathi** and T. Balakrishnan, National College, Trichy, March 6 – 8 2017.
- ❖ Presented a paper entitled “*Crystal growth, structural, optical, mechanical and dielectric studies of L – Lysine Adipate*”, **P. Revathi**, S. Sathiskumar and T. Balakrishnan, Sacred Heart College, Tiruppattur, Vellore January 23 – 25, 2018.
- ❖ Presented a paper entitled “*Crystal growth, structural, optical, mechanical and dielectric studies of glycine Zinc sulphate single*

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*crystals*” **P. Revathi**, M. Sathish and T. Balakrishnan, Bishop Heber College, Trichy, January 23- 25 , 2018.

- ❖ Presented a paper entitled “ *Crystal growth, structural, optical, mechanical and dielectric studies bisglycine cobalt sulphate pentahydrate* ” **P. Revathi**, S.Sakthivel and T. Balakrishnan, Bharathiar university , January 28 – 30, 2019.
- ❖ Presented a paper entitled “*Studies on The Growth and Characterization of Bisglycine Cobalt Sulphate – A Novel Semiorganic Third Order Nonlinear optical Single Crystal*” **P. Revathi**, S.karthick and T. Balakrishnan, Bhabha atomic research centre, Mumbai January 19 – 21 2016.
- ❖ Presented a paper entitled “*Crystal growth and characterization of L - Lysine Acetate single crystal*”, M. Sathish, **P. Revathi** and T. Balakrishnan, National College, Trichy, February 6 - 8 2019.
- ❖ Presented a paper entitled “*Synthesis, crystal growth and characterization of L – Lysine Adipate single crystal*”, **P. Revathi** and T. Balakrishnan, Bishop Heber College, Trichy, February, 6 – 8 2019.
- ❖ Participated in a three day online faculty development programme on “CONDENSED MATTER PHYSICS” under DBT Star College Scheme organized by PG and Research Department of Physics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 620 020 during the period 19.10.2020 to 21.10.2020.
- ❖ Participated in the 14-days Online Faculty Development Programme on “MATERIALS SCIENCE & NANOTECHNOLOGY(FDP-MSNT-2020)” organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai-48, during the period 03rd August to 17<sup>th</sup> August 2020.
- ❖ Participated in the Faculty Development Program on “Remarkable Structural, Magnetic and Microwave Adsorption Properties of Rare Earth-Doped Mn-Cu Ferrites. & *In-situ* characterization of Materials at Elevated Temperatures” organised by the Department of Physics, Kristu Jayanti College (Autonomous) Bengaluru, through Zoom VideoCommunications on 4th May, 2020.

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- ❖ Participated International conference on “Sustainable Materials and Technologies for Bio and Energy Applications,(SMTBEA-2021)” during 19<sup>th</sup>, May 2021. SSN, Chennai.
- ❖ Participated International conference on “Sustainable Materials and Technologies for Bio and Energy Applications,(SMTBEA-2021)” during 20<sup>th</sup>, May 2021. SSN, Chennai.
- ❖ Participated International conference on “Sustainable Materials and Technologies for Bio and Energy Applications,(SMTBEA-2021)” during 21<sup>st</sup>, May 2021.**P.Revathi**, SSN, Chennai.
- ❖ Participated Two day Faculty Development Programme on Recent Developments in Materials Science (23.09.2021) and (24.09.2021) Organized by PG and Research Department of Physics, SAASC, Trichy, Tamilnadu-620 005

### Academic References

#### 1. Dr. T.Balakrishnan

Head & Associate Professor

PG and Research Department of Physics

Periyar E.V.R. College (Autonomous)

Tiruchirappalli

Tamil Nadu, India

E-mail Id: [balaphy@rdiffmail.com](mailto:balaphy@rdiffmail.com)

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#### 2. Dr. P. Sivakumar

Associate Professor

PG and Research Department of Physics

Periyar E.V.R. College (Autonomous)

Tiruchirappalli

Tamil Nadu, India

E-mail Id: [p\\_psivakumar@yahoo.com](mailto:p_psivakumar@yahoo.com)

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### **DECLARATION:**

I hereby declare that all the details furnished above are true to the best of my knowledge.

**Date: 01.07.2019**

**Place: Tiruchirappalli - 23**

**Signature**

A handwritten signature in black ink on a light purple rectangular background. The signature reads "P. Revathi" with a stylized flourish at the end.

**(P. Revathi)**