

J. REENA PRIYA

12, Narayanasamy Kovil Street, Kalugumalai, Tuticorin - Dt, Tamilnadu, India - 628 552

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Date of Birth: 23rd May 1991

Citizenship : Indian

Objective

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields research, also to realize my potential and contribute to the development of organization with impressive performance

Research Interests

Crystal growth and nano technology, Renewable Energy Materials, Bio Physics & Experimental Physics

Education

2014-2021	Doctor of Philosophy in Physics, Loyola College, Chennai. Dissertation Title: Investigation on the Growth and Characterization of dye & amino acid doped KHP crystals and L-Valine hydrochloride crystal for antibacterial activity
2011-2013	Master of Science in Physics, Loyola College, Chennai. Dissertation Title: Synthesis of SnSe ₂ Nanoparticles by a Versatile Hydrothermal Method and it's characterization CGPA: 6.47, Class: First
2008-2011	Bachelor of Science in Physics, The Standard Fireworks Rajaratnam College for Women, Sivakasi. Dissertation Title: Planck's Constant for Various Spectral Lines Using Filament Heating Method CGPA: 7.83, Class: First with distinction.
2006-2008	Higher Secondary Education (XI-XII), RC Susai Higher Secondary School, Kalugumalai. Overall Percentage: 81.1, Class: First with distinction.
2005-2006	High School Education (X), Louisa Girls High School, Kalugumalai. Overall Percentage: 83.4, Class: First with distinction.

Research Experience

Being a Research Scholar and a Post Graduate Student M.Sc., in Physics I have gained the followed Experience

- Synthesis and Characterization of Crystal by using a relevant Techniques
 - Experienced in analysis of data interpretations of the prepared samples
 - By Using internet make a survey of the relevant literature
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Research Contributions

Project in Ph.D.

Title : Investigation on the Growth and Characterization of dye & amino acid doped KHP crystals and L-Valine hydrochloride crystal for antibacterial activity

Method : Slow Evaporation Technique

Description:

Single crystal of non linear optical material dye & amino acid doped KHP was successfully grown by slow evaporation method. Grown crystals were studied using SXRD, FTIR, UV, Photoluminescence, SHG, Z-scan, TG-DTA, Microhardness, Etching studies, Antibacterial activity respectively and the interpretations are discussed in detail.

Project in M.Sc.

Title : Synthesis of SnSe₂ nanoparticles by a versatile hydrothermal method and it's characterization

Method : Hydrothermal

Description:

SnSe₂ nanoparticles were prepared by hydrothermal method. The prepared sample was subjected to XRD, FTIR, UV, SEM, Dielectric studies; Photoconductivity respectively and the interpretations are discussed in detail.

Personality Profile

- Strong Analytical and Problem Solving Skill.
- Continuous learner and willingness to improve with experience.
- Ability to work with team as well as individually.
- Open to learning and exploring new technology and domain.

Software and Professional Skills

- Language set : C (Studied as a Major Paper in UG), Embedded system design using Microcontroller (CGPA: 8.17)
- Office suit : Working knowledge of MS-Office and its tools
- Operating System : Windows 7, 8, 8.1,10
- Computer knowledge : Skilled in Computer basics and Browsing Internet

Extra-Curricular Activities

- ✓ I am a throw ball player
 - ✓ I am an active participant in college functions as volunteer and in other Event.
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Certificates

- ✓ Certificate for attending 10 days **NCC** camp at
- ✓ Certificate for attending B certificate exam in NCC.
- ✓ Certificate of participated and presented the paper in the **NCAAPMS** organized by Hindustan University, Chennai held on 29th – 30th Jan 2016.
- ✓ Certificate of participation in **ICRTMSA – 2016**, Jalal Mohamed College, Trichy, India (29th Feb 2016).
- ✓ Certificate of participated and presented the paper in **National Seminar On Nanostructured Materials**, Bharath Institute of Science and Technology, Chennai held on 20th Dec 2019.
- ✓ Certificate of participation in **National Conference on Material Science**, Loyola College, Chennai held on 9th Jan 2020.
- ✓ Certificate of participation in **2nd International Conference on Materials for Energy and Environment**, Loyola College, Chennai held on 20th – 21st Feb 2020.
- ✓ Certificate of participation in **Indo-UK International virtual conference on Advanced Nanomaterials for energy and environmental applications (ICANEE – 2020)**, Alagappa University, India and Brunel University, London. (16th – 18th September 2020).
- ✓ Certificate of participated and presented the paper in **ICAMMC-2021**, SRM Institute of Science and Technology, Chennai held on 2nd – 4th Dec 2021.

List of Paper Publications

- ✓ **J. Reena Priya**, M. Mercina, M. P. Nancy, J. Mary Linet, and J. Arul Martin Mani, "Synthesis and Characterization of Rhodamine B and Methylene Blue doped Potassium Hydrogen Phthalate Single Crystals" *Materials Today: Proceedings* 65 (2022): 385-390.
- ✓ **J. Reena Priya**, D. Jayaraman V. Joseph, "Investigation on growth and characterization of non-linear optical crystal L-Valine Magnesium Chloride" *International Journal of Chem.Tech.Research*, 10(7) (2017) 756 - 760.
- ✓ **J. Reena Priya**, M. Mercina, D. Kalaivani, V. Joseph, D. Jayaraman, "Growth, Structure and Functional Properties of Zinc Chloride Doped L-Phenylalanine Perchlorate" *International Journal of Technical Research and Applications*, 37 (2016), 83 - 85.
- ✓ A. Surya Prabha, R. Ragu, **J. Reena Priya**, J. Mary Linet, and J. Arul Martin Mani, "Investigation on growth, structural and physico-chemical traits of 4-N,N-dimethylamino-4'-N'-phenyl-stilbazolium hexafluorophosphate (DAPSH) crystal" Science Direct: *Chemical Physics Impact* 7 (2023), 100242.

- ✓ M. Mercina, **J. Reena Priya**, D. Jayaraman, and V. Joseph. "Synthesis and characterization of Rhodamine B and Methylene Blue doped L-Histidine Bromide single crystals." *Materials Today: Proceedings* 49 (2022): 2607-2610.
- ✓ M. P. Nancy, **J. Reena Priya**, and J. Mary Linet. "Growth, structural, mechanical, optical, and thermal properties of Guanidinium Salicylate (GuS) single crystal for NLO applications." *Journal of Materials Science: Materials in Electronics* 31, no. 11 (2020): 8144-8150.
- ✓ A. Karolin Martina, **J. Reena Priya**, N. S. Nirmala Jothi and P. Sagayaraj, "Investigation on the growth, structural and third order nonlinear optical properties of 4-Ethoxy-4'-N'-methyl 4-Stilbazolium Hexafluorophosphate (EMSHP) single crystal" *Journal of Nanoscience and Technology* (2018): 395-399.
- ✓ J. Arul Martin Mani, A. Karolin Martina, **J. Reena Priya**, V. Joseph, P. Sagayaraj, "Investigation on Growth, Structural, Optical, Dielectric and Surface Properties of Organic Nonlinear Optical Material: DAPSH", *International Journal of Latest and Research in Engineering and Technology (IJLRET)*, 11-13.
- ✓ A. Karolin Martina, J. Arul Martin Mani, **J. Reena Priya**, N.S. Nirmala Jothi, P. Sagayaraj, "Synthesis, Growth and Characterization of [DAMS]₂[CdI₄] single crystal [DAMS= 4-N, N-dimethylamino-N-methyl-stilbazolium iodide]", *Materials Today: Proceedings*, 8,(2019): 28-36.

Hobbies

- ✓ Doing Craft works
- ✓ Drawing
- ✓ Listening to music
- ✓ Surfing internet
- ✓ Cooking

Personal details

Name : J. Reena Priya

Father's Name : Mr. A. Jeya Prakash

Languages known : Tamil, English

D.O.B : 23rd May 1991

Marital Status : Single

Reference

Dr. V. Joseph

Assistant Professor

PG & Research Department of Physics

Loyola College (Autonomous)

Chennai-620 034

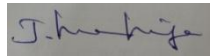
e-mail: vjoseph62@yahoo.co.in

Declaration

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

Place : Kalugumalai

Date : 19.06.2023



(J. REENA PRIYA)