

Bharathiar University State University I "A⁺⁺" Grade by NAAC I 26th Rank in MoE-NIRF Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr P DHANASEKARAN	
Assistant Professor School of Distance Education	
harathiar University	
Erode, 638116	
Tamil Nadu	
E-mail: dhanasekaran@buc.edu.in Phone: 9789731090	
Office Number:	
Research Area	Courses Teaching
Crystal Growth	Classical Mechanics
• Biomaterials	Condensed Matter Physics
	Atomic and Molecular Spectroscopy
	 Mathematical Physics Nuclear and Particle Physics
Research Experience: 18	Teaching Experience: 10
	– Source: Google scholar)
H-index: 9 Citations: 9	i10-index: 231
Publications International Journals: 26 Books/Chapter	ters: 2 Conferences: 7
Career	
Other Institutes	
Other Institutes 1. Designation : Assistant Professor Institution Name : Erode Sengunthar Engineeri Period : June 2014 - November 2016 2. Designation : Assistant Professor	
Other Institutes 1. Designation : Assistant Professor Institution Name : Erode Sengunthar Engineeri Period : June 2014 - November 2016 2. Designation : Assistant Professor Institution Name : Sri Shakthi Institute of Engin	eering and Technology, Coimbatore
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Dr P DHANASEKARAN , Assistant Professor , School of Distance Education

Dr P DHANASEKARAN , As	ssistant Professor , School of Distance Education
 M. Sc. Subject : Physics Institution : Sri Kandhan College of Arts and S Affiliated University : Periyar University Year of Award : April 2005 B. Sc. Subject : Physics Institution : Sri Vasavi College Affiliated University : Bharathiar University Year of Award : April 2003 	cience
Projects National Level Ongoing - completed - 2	Research Guidance Completed Ph.D 3 On Going Ph.D 1
CCII In-charge Period :Feb 2023 to Till date Nature of Responsibility :Responsible for CCII Teaching in B.Sc. Blended Period :Jul 2023 to Till date Nature of Responsibility :This is unique and or Member Period :Jan 2024 to Till date Nature of Responsibility :To look into the matter of ODL, offered by SDE.	
Visits 1. International Conference on Materials for Advan	nced Technology (ICMAT2015) (2015-07-03 - 2015-06-28)
Publications Books/Chapters - 2 2. 2. "Study of L-glutamic Acid's in situ Polymorphic Novel Aspects on Chemistry and Biochemistry Vol. P. Dhanasekaran 1. 1. "Effect Of L-Aspartic Acid Addition On The Cryst	. 9, Chapter 11, Page 149-168. (January 2024)
Applications Of L-Glutamic Acid Crystals" Novel Aspects on Chemistry and Biochemistry Vol. J. Aarthi, P. Dhanasekaran International Journals - 26 26, 26, "Characterization of Yttrium-doped ?-glycine	. 3, Chapter 6, Page 69-76. (June 2023) e crystal for nonlinear optical properties, antibacterial,
anticancer activites" Molecular Crystals and Liquid Crystals, 766, 78-89. J. Aarthi, V. Vijayalakshmi*, P. Dhanasekaran, and	. (October 2023)



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25. 25. "Investigations of Cadmium ion doped L-Histidine hydrochloride crystal growth, vibration, optical,

thermal, SHG, and MTT assays for biological and optoelectronic applications"

Journal of Materials Science: Materials in Electronics 34, 522. (March 2023)

N. Poongodi; Dhanasekaran P; N. M. Ganesan; T. S. Senthil; Ravikumar Nattudurai

24. 24. "Effect of ammonium chloride addition on crystal growth, structural, optical and biological applications

of L?glutamic acid crystals"

Applied Physics A 128, 416. (July 2022)

V. Vijayalakshmi, P. Dhanasekaran, J. Aarthi*

23. 23.

Journal of Materials Science: Materials in Electronics 32, 22984 - 22998. (March 2021) B. ThilagaRajeswari, P. Sathya*, P. Dhanasekaran, G. Vinitha, S. Meyvel,V. Vijayalakshmi, and J. Aarthi

22. 21. "Growth and characterisation of thiosemicarbazide hydrochloride single crystals for optoelectronic

and photonics device applications"

Optik 215, 164746. (March 2020)

B Thilagarajeswari, P Sathya, P Dhanasekaran*, S Meyvel, V Vijayalakshmi, J Arthi

21. 22. "Thiosemicarbazidezincchloride single crystal: Promising (?)3 novel NLO material for optical and

photonic device applications"

Optik 224, 165627. (March 2020)

ThilagaRajeswari. B, Sathya. P, Dhanasekaran. P*, Vinitha. G, Meyvel. S, V. Vijayalakshmi, J. Aarthi

20. 20. "Synthesis, Crystallization and Optical Properties of Potassium Nitrate Added L-alanine Single

Crystals for Optoelectronic Device Applications"

Advanced Materials Proceedings 4, 162-164. (November 2019)

M. ShanmugaSundaram^{*}, V. Vijayalakshmi, P. Dhanasekaran, O.N. Balasundaram, S. Palaniswamy

19. 19. "Nonlinear optical investigations on novel gadolinium (III) ion doped L-histidine hydrochloride single

crystal by solvent evaporation method"

Optoelectronics and Advanced Materials - Rapid Communications 13, 315-319. (August 2019) N. Poongodi, P. Dhanasekaran, N. M. Ganesan and T. S.Senthil

18. 18. "Crystal growth and characterization of ?-glycine grown from AgSO4 for nonlinear optical

applications"

Journal of Crystal Growth 509, 44–49. (June 2019)

V. Vijayalakshmi & P. Dhanasekaran

17. 17. "Growth and Characterization of L-Alanine Potassium Nitrate Single Crystals for Nonlinear Optical

Applications"

Journal of Crystal Growth 506, 122–126. (May 2019)

M. Shanmuga Sundaram, V. Vijayalakshmi, P. Dhanasekaran, O.N. Balasundaram, S. Palaniswamy

16. 16. "Growth and Characterization of ?-glycine single crystals for Photonics and Optoelectronic device

applications"

Journal of Crystal Growth, 506, 117-121. (March 2019)

V. Vijayalakshmi, P. Dhanasekaran

15. 15. "Growth, structural, optical, thermal and dielectric properties of L-glutamic acid hydrochloride crystal

for optoelectronic device applications"

Journal of Crystal Growth, 506, 79-82. (February 2019) J. Aarthi, P. Dhanasekaran

14. 14. "Growth and characterization study of ? and ? polymorphs of L-glutamic acid single crystals in the

presence of ammonium sulphate

Journal of Crystal Growth 502, 64-70. (September 2018) J. Aarthi, P. Dhanasekaran, T.S. Senthil and N.M. Ganesan



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13. 13. "Growth and characterization of ? & ? polymorphs of L-glutamic acid and its Anticancer & Antibacterial

application

Crystal research and technology, volume 53, 6, 1700190 (1-10). (August 2018) J. Aarthi, P. Dhanasekaran, T.S.Senthil and N.M.Ganesan

12. 12. "Optical, photoconductivity and dielectric studies of zinc sulphate added glycine crystal for photonics

applications"

Optik, 173, 65-70. (July 2018) V.Vijavalakshmi, P. Dhanasekaran,

11. 11. "Growth and characterization study of ?-glycine crystal grown using a different mole concentration of

zinc sulphate"

Journal of Crystal Growth, 498, 372-376. (May 2018)

V. Vijayalakshmi, P. Dhanasekaran

10. 10. "Effect of nickel sulphate hexahydrate addition on crystal growth, structural, optical and biological

applications of glycine single crystals"

Molecular Crystals and Liquid Crystals, 664, 241-250. (April 2018) V. Vijayalakshmi, P. Dhanasekaran and N. M. Ganesan

9. 9. "Influence of rare earth gadolinium nitrate addition on structural, dielectric, linear and nonlinear optical

properties of glycine single crystals"

Journal of Crystal Growth, 493, 30-33. (February 2018) V.Vijayalakshmi, P. Dhanasekaran and N. M. Ganesan

8. 8. "Nucleation control and growth of metastable ?-L-glutamic acid single crystals in the presence of L-

phenylalanine"

Procedia Engineering 141, 70-77. (April 2016)

DhanasekaranPalanisamy, Srinivasan Karuppannan*

7. 7. "Studies on the growth, structural, optical, thermal and mechanical properties of the semiorganic

nonlinear optical crystal L-glutamic acid hydrobromide"

Phys. Chem. Solids 74, 934-942. (June 2013)

P. Dhanasekaran, K. Srinivasan

6. 6. "Nucleation control, separation and bulk growth of metastable ?-L-glutamic acid single crystals in the

presence of L-tyrosine"

J. Cryst. Growth 364, 23-29. (March 2013)

P. Dhanasekaran, K. Srinivasan

5. 5. "Synthesis, growth, morphology of the semiorganic nonlinear optical crystal L-glutamic acid

hydrochloride and its structural, thermal and SHG characterizations"

Cryst. Res. Technol. 47, 1217-1230. (March 2012) P. Dhanasekaran, K. Srinivasan

4. 4. "Nucleation control and crystallization of L-glutamic acid polymorphs by swift cooling process and their

characterization"

J. Cryst. Growth 318, 1080-1084. (September 2011)

K. Srinivasan, P. Dhanasekaran

3. 3. "Separation and nucleation control of ? and ? polymorphs of L-glutamic acid by swift cooling

crystallization process"

Amino Acids 40, 1257-1260. (July 2011)

K. Srinivasan and P. Dhanasekaran

2. 2. "Synthesis and Characterization of Silver-Polyvinyl Alcohol Nanocomposites and Plasma Effect"

Journal of Ovonic research 6, 187-191. (May 2010)

B. Raneesh*, A. Pragatheeswaran, P. Dhanasekaran, P. Chandrasekaran, Nandakumar Kalarikkal



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1. 1. "Transferred arc plasma processing of mullite-zirconia composite from natural bauxite and	l zircon sand"
Vacuum 83, 353–359. (March 2009) S. Yugeswaran, V. Selvarajan, P. Dhanasekaran, L. Lusvarghi	
Conferences - 7	
7. 7. "Growth and characterization study of L-glutamic acid ?-polymorphs in the presence of L-a	spartic acid"
 AIP Conference Proceedings, 2220, 060004. (July 2020) J. Aarthi, and P. Dhanasekaran 6. 6. "Synthesis, Crystallization, Non Linear Optical and Anti-bacterial Activity of L-Alanine Sodia 	um Nitroto
Single Crystals"	
Journal of Physics 1172, 012072. (June 2019) M. ShanmugaSundaram*, V. Vijayalakshmi, P. Dhanasekaran, O.N.Balasundaram and S.Palaniswam 5. 5. "Growth and antimicrobial studies of ?-glycine crystal grown using CuSO4"	ıy
 AIP Conference Proceedings, 1953, 070004. (August 2018) V. Vijayalakshmi & P. Dhanasekaran 4. 4. "Nucleation control and growth of metastable ?- L-glutamic acid single crystals in the prese 	ence of L-
phenylalanine"	
Procedia Engineering, 141, 70-77. (May 2016) P. Dhanasekaran, K. Srinivasan	
3. 3. "Growth and characterization of stable ?-polymorphs of L-glutamic acid by slow evaporatio	on method"
International Journal of Science and Research (IJSR), AIP Conference Proceedings, ISSN 2319-706 P. Dhanasekaran & C.R.Kalaiselvi	4, 5-8. (June 2014)
2. 2. "Nucleation and growth of L-glutamic acid polymorphs and its nonlinear optical properties'	,
AIP Conference Proceedings, 1536, 719-720. (July 2013) P. Dhanasekaran & K. Srinivasan	
1.1. "Nucleation control and growth of metastable ?- L-glutamic acid single crystals in the prese	ence of L-
tyrosine"	
AIP Conference Proceedings, 1512, 896-897. (March 2013) P. Dhanasekaran & K. Srinivasan	
Projects	
Completed - 2	
 Nucleation Control, Separation and Crystallization of L-Glutamic acid Polymorphs by Solution Growth & Characterization of Single Crystals of L-Glutamic Acid Derivatives DAE-BRNS 28.12 	

- August 2018)

2. Non-linear optical and anti-bacterial applications of

glycine and its derivatives DST - SERB 24.42 (October 2016 - October 2019)