

FACULTY PROFILE



Name of Teaching Staff / RMK ID	Dr. P. S. Latha Mageshwari /T0665		
Designation	Associate Professor		
Department	S&H (Physics)		
Date of Joining the Institution	2001 (Regular)		
Qualifications	M.Sc. (Physics)	M.Phil (Physics)	PhD (Physics)
Total Experience	Overall: 21 & 2 months	in RMK: 11 years & 2 months	
Papers Published in Journal	Overall: 25	After Joining RMK: 25	
List of Papers Published	<ol style="list-style-type: none"> 1. R. Priya, S.Anitha, P.S. Latha Mageshwari, Growth and characterization of Bis(methyl ammonium) tetrachlorocadmte single crystal, Ferroelectrics 2022 – Accepted. 2. S.Anitha, P.S. Latha Mageshwari, R. Priya, Prospective theoretical investigations of optical, dielectric, mechanical and third-order NLO property in potassium tri-hydrogen di-succinate single crystal, Chinese Journal of Physics, 2022,Volume 76, Pages 145-171. 3. R. Priya, S.Anitha, P.S. Latha Mageshwari, Dielectric Relaxation and Optical Properties in Ferroelectric Bis(Methyl ammonium) tetrachloro zincate single crystal, Ferroelectrics, 2021, 585:1, 211-229. 4. 4. R. Priya, S.Anitha, P.S. Latha Mageshwari, Exploration on transport process of optically active third order nonlinear Disodium Succinate Hexahydrate (β phase) single crystals encompass Self-focusing nature, Journal of Materials Science: Materials in Electronics, volume 31, pages 21288–213022, 2020. 5. R Ragu, P.S. Latha Mageshwari, M Akilan, S Jerome Das, Enhanced optical, mechanical, photoacoustic and third-order nonlinear property of pure and crystal violet (CV) dye incorporated anthracene crystal: an efficacious material for nonlinear optical applications, Applied Physics B: Lasers and Optics, 126, 95, 2020. 6. R Ragu, P.S. Latha Mageshwari, M Akilan, JP Angelena, S Jerome Das,” Enrich mechanical, photo-acoustic, SHG and Z-scan studies on pure and crystal violet dye (CV) incorporated sodium acid phthalate crystal for optical 		

applications, *Journal of Materials Science Materials in Electronics* 30, pages 1670–1676, 2019.

7. R Ragu, M Akilan, JP Angelena, **P.S. Latha Mageshwari**, S Jerome Das, Growth, optical, mechanical, thermo-physical, laser damage threshold (LDT) and Z-scan studies on dilithium succinate single crystal for optical limiting applications, *Journal of Materials Science Materials in Electronic*, 30, pages 6287-99 (2019).
8. K Amudha, **P.S. Latha Mageshwari**, R Mohan Kumar, PR Umarani, Selective enhancement of second and third-order nonlinear optical properties of newly synthesised trisglycine epsomite single crystal”, *Materials Letters*, Volume 223, 2018, Pages 33-36.
9. K Amudha, **P.S Latha Mageshwari**, R Mohan Kumar, R Ranjani, PR Umarani, Investigations on optical, theoretical, mechanical, and dielectric properties of newly synthesised optical single crystal - trisglycine epsomite, *International Journal of Chem Tech Research*, 2018, 11(05), 01-10.
10. K. Amudha, **P.S.Latha Mageshwari**, R.Mohan Kumar, R. Ranjani, P. R. Umarani, Investigations on Linear and nonlinear properties of newly synthesised potassium hydrogen phthalate magnesium sulphate crystal—A promising third order NLO crystal, *Archives of Physics Research*, 2018, 9(1), 1-8.
11. **P.S. Latha Mageshwari**, R. Priya, S. Krishnan, V. Joseph and S. Jerome Das, “Growth, optical, thermal, dielectric and mechanical studies of sodium hydrogen succinate single crystal: A third order NLO crystal”, Springer, *Journal of Thermal Analysis and Calorimetry*, Vol 128 (2017) 29-37.
12. R . Subhashini, **P. S. Latha Mageshwari**, V. Sivashankar, S. Arjunan, “Design of an efficient solution grown semiorganic NLO crystal for short wavelength generation: Bis (L-Threonine) magnesium (II) monohydrate”, Elsevier, *Materials Letters*, Vol 200 (2017) 109-112.
13. **P.S. Latha Mageshwari**, R. Priya, S. Krishnan, V. Joseph and S. Jerome Das, “Growth, optical, thermal, mechanical and dielectric studies of sodium succinate hexahydrate (β phase) single crystal: A promising third order NLO material”, Elsevier, *Journal of Optics and Laser Technology*, 85 (2016) 66-74.
14. R. Subhashini, **P.S. Latha Mageshwari**, S. Arjunan, “Growth and characterization of Bis(1-threonine) copper (II) monohydrate single crystals: A semiorganic second order nonlinear optical material”, Elsevier, *Optical Materials* Vol 62 (2016) 357–365.
15. **P.S. Latha Mageshwari**, R. Priya, S. Krishnan, V. Joseph and S. Jerome Das, “Optical, dielectric and ferroelectric behaviour on doped lithium sulphate crystals”, Elsevier, *Optik* 125, (2014) 2289 – 2294.
16. G.Nixon Samuel Vijayakumar, **P.S. Latha Mageshwari**, A.Vijayalakshmi, Experimental and Theoretical Investigations on Structural, Morphological, Optical and Dielectric behavior of novel BaO-MnO Metal

	<p>Nanocomposites, IEEE Journal 2022.</p> <p>17. R.Subhashini, P.S. Latha Mageshwari, Santhi M George, Systematic inquiry on optical properties of BLAZ: A semiorganic nonlinear optical crystal, AIP 2021-Accepted.</p> <p>18. S.Anitha, P.S. Latha Mageshwari, R. Priya, Optical and Dielectric studies of thiourea doped single crystals of Magnesium Sulphate Heptahydrate, AIP 2021, Accepted.</p> <p>19. A. Chamundeswari, P. S. Latha Mageshwari, G. Nixon Samuel Vijayakumar, et al., Structural, Non-Linear Optical Analysis of ZnO-CdO Nanocomposite- AIP proceedings, 2244, 060001 (2020).</p> <p>20. P.S. Latha Mageshwari, R. Priya, R. Subhashini, V. Joseph, S. Jerome Das, “Theoretical Investigation of Optical and Mechanical Properties of Sodium Hydrogen Succinate Single Crystal: a Third Order NLO Material,” Mechanics, Materials Science & Engineering, April 2017 – ISSN 2412-5954.</p> <p>21. R. Ragu,P. Angelena, M. Akilan, P.S. Latha Mageshwari , S. Jerome Das, “Structural, Optical, Mechanical studies on Glycine Lithium Sulphate (GLS) single crystal”, International Journal of Latest Research in Engineering and Technology (IJLRET) ISSN: 2454-5031, (2016) PP.46-49.</p> <p>22. P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph, and S. Jerome Das, “Crystalline perfection and Mechanical properties of lithium sulphate monohydrate NLO single crystal”, International Journal of ChemTech Research, CODEN (USA): IJCRGG ISSN: 0974-4290, Vol.6 (2014) 1563-1566.</p> <p>23. P.S. Latha Mageshwari, R. Priya, S. Krishnan, V. Joseph and S. Jerome Das, “Optical and dielectric studies of Cadmium Chloride doped single crystals of Lithium Sulphate”, Advanced Materials Research, Vol.584 (2012) 65-69.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall: 10	After Joining RMK: 10
Ph.Ds / Projects Guided	Ph.Ds Guided : 1	Student Projects Guided:-
Books Published:	Count :--	
	List :	
Patents	Published Count :2	Granted Count:-
	List: 1. Title: Smart Attendance System Published on 13/05/2022 2. Solar Based Smart Aid Kit Dispenser Booths in case of Accidents in National Highways Published on 13/05/2022	
Professional Memberships	Count: 6	
	<ol style="list-style-type: none"> 1. Lifetime member – Indian Laser Association 2. Lifetime member - The Indian Society for Technical Education 3. Lifetime member-International Society for Development and 	

	<p>Sustainability</p> <ol style="list-style-type: none"> 4. Lifetime member - IAENG 5. Lifetime member - Knowledge Research Academy 6. Lifetime member – Indian Association of Crystal Growth
Consultancy Projects Completed	Count :-
Awards Received	Count :-
	NPTEL-Top Performing Mentor Jan-April 2022
Research grants Received	nil
Orchid Link / ID	ID: X-5679-2019
Google Scholar Link / ID	ID: https://scholar.google.com/citations?user=-zbwIW8AAAAJ&hl=en
Vidwan Link / ID	ID : 281755
Research Gate Link / ID	https://www.researchgate.net/profile/P-S-Latha-Mageshwari
Scopus Link / ID	ID : 56072343500