

CURRICULUM VITAE

1. Name : Dr. T. RAJESH KUMAR
2. Age & Date of Birth : 43, 07.07.1979
3. Designation & Subject : Assistant Professor of Physics
4. Educational Qualification : M.Sc., B.Ed., M.Phil., Ph.D.,
5. Date of Appointment : 20-06-2013
6. Date of Retirement : 31-07-2039
7. Spouse Name and Occupation : Er.D. Kalai Selvi , Entrepreneur



8. a) Qualifications – Academic:

Examinations passed	Register Number	Month & Year of passing	Subject	Class with Marks or Grade	Name of the College/University
Ph.D		2011	Physics	Highly commended	University of Madras
M.Phil	A4572410	2006	Physics	II	Manonmaniam Sundaranar University
M.Sc	A0601362	2003	Physics	I	Madurai Kamaraj University
B.Sc	97PHY727	2000	Physics	II	Madurai Kamaraj University

8. b) Additional Qualifications

Examinations Passed	Board	Year of Passing	Grade
B.Ed	Annamalai University	2003	I

9. Teaching Experience

Sl. No.	Place of Service	Period		Designation
		From	To	
1	NPRCET, NATHAM	Aug 2010 - April 2013		Assistant Professor
2				
3				

11. Total Teaching Experience as on May 2022:

Under graduate - 9 Years 2 Months

Post Graduate - 7 Years 2 Months

Research - 12 Years Months

10. Area of Specialisation : i) Teaching - Electronics
ii) Research - Materials Science

11. Research Experience – M.Phil:

Course	No. of Candidates Awarded	University
M.Phil		

M.Phil. Awarded

Sl. No.	Name of the Candidate with Regn. No.	Year of Passing
1		

12. Research Experience – Ph.D.

No. of Candidates		University	
Awarded	-	-	
Awaiting for <i>Viva Voce</i>	-	-	
Ph.D. in Progress	3	Madurai Kamaraj University, Madurai	

a) Ph.D. Awarded

Sl. No.	Name of the Candidate with Regn. No.	Title of the Thesis
1	-	-

b) Ph.D. Submitted

Sl. No.	Name of the Candidate with Regn. No.	Title of the Thesis	Date of Submission
1			

c) Ph.D. in Progress

Sl. No.	Name of the Candidate with Regn. No.	Title of the Thesis	Date of Registration
1	X. Vasanth Winston, 4231	Irradiation effect on the highly efficient non linear optical SCN ligand based single crystals MMTC,CMTC	28-3-2018
2	S. Lavanya,	Fabrication and characterization of Tio ₂ , CdS, CdTe solar cells	25-05-2018
3	Begene Prince,5650	Studies on the growth and characterization of NLO single crystals of organometallic family	03-01-2019

13. Research Project – Minor/Major

Sl. No.	Minor/Major	Title of the Project	Date of Submission	Period of the Project	Amount Sanctioned	Sponsoring Agency
1						
2						
3						

14. Orientation Course, Refresher, Short Term Courses Attended

Sl. No.	Name of the Institution/University	From	To
1	Orientation Course, Bharathidasan University	6-11-2013	3-12-2013
2	Refresher -UGC- HRDC, Madurai Kamaraj University, Madurai	16.11.2018	06.12.2018
3	Refresher -UGC- HRDC, Madurai Kamaraj University, Madurai		
4	Refresher -NSS Empanelled Training	12.9.2019	18.9.2019

	Institution, Avinashilingam University, Coimbatore.		
	FDP-Centre for Nanoscience and Technology (CNST), JNTU Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad.	04-11-2019	16-11-2019
5	UGC- HRDC, Madurai Kamaraj University, Madurai	10-11-2021	23-11-2021
	UGC- HRDC, Bharathidasan University	05.07-2022	17-07-2022

15. Seminars/Workshops/Conferences/Symposium - Participation

Sl. No.	Theme of Seminar / Workshops / Conferences/ Symposium	Institution/Organisation	Date
1	One day National Workshop on Nano materials , Synthesis, Characterization and Applications	Department of Physics, MEPCO Schlenk Engineering College, Sivakasi	29 th August 2007
2	National Conference on Emerging Trends in Crystal Growth and Nano Materials (NECAN-2008)	The Department of Physics, Loyola College, Chennai	28 th and 29 th February 2008
3	Short course on Laser based Instrumentation	Indian LASER Association, Laser Science and Technology Centre, New Delhi	6 th January 2009.
4	Workshop on Solid state Physics to Materials Science	Department of Physics, Pondicherry University, Puducherry	19-21 August 2009.
5	National Conference on Perspectives in Lasers and Spectroscopy (NCPLAS-2009)	Department of Physics, Women's Christian College, Chennai	24 th and 25 th September 2009
6	National Seminar on Smart Device Materials – DEMATS-11	Department of Physics, Velammal College of Engineering and Technology, Madurai	18 th March 2011

16. Seminars/Workshops/Conferences/Symposium – Paper Presentation

Sl. No.	Title of the Paper	Seminar / Workshop / Conference	Institution where Attended	Year
1	Synthesis, growth and characterization of novel semiorganic NLO Crystal of L-Cystine Bromide	SEVENTH DAE - BRNS National Laser Symposium (NLS-7)	M.S. University, Gujarat	2007
2	Growth and Characterization of a Nonlinear optical L-Cystine Bromide (LCB) single crystal	National Seminar on Crystal Growth (with international conference)	Center for crystal Growth, SSN College of Engineering, Kalavakkam	2007
3	Growth and Characterization of a novel organic NLO crystal of mono-L-alaninium nitrate	National Conference on Advanced Functional Materials	Department of Physics, Faculty of Engineering and Technology, SRM University, Kattankulathur	2008
4	Structural and optical properties of organometallic nonlinear optical CMTC single Crystal	54 th DAE Solid State Physics Symposium	M.S. University, Gujarat	2009
5	Synthesis, growth and optical, structural characterization of NLO TMTM single Crystal	54 th DAE Solid State Physics Symposium	M.S. University, Gujarat	2009
6	Structural and optical properties of bimetallic nonlinear optical CdHg (SCN) ₄ and MnHg(SCN) ₄ single Crystals	NINTH DAE - BRNS National Laser Symposium (NLS-9)	BARC, Mumbai	2010
7	Growth, optical and thermal properties of nonlinear optical crystals of L-alaninium tartarate (LAT),	NINTH DAE - BRNS National Laser Symposium (NLS-9)	BARC, Mumbai	2010
8	Crystal perfection investigation on solution grown semi	NINTH DAE - BRNS National Laser Symposium (NLS-9)	BARC, Mumbai	2010

	organic high efficient non linear optical TMTM single crystal,			
9	Growth and characterization on bimetallic thiyocyanate single crystal of ZnCd(SCN) ₄	54 th DAE Solid State Physics Symposium	Manipal Univrsity, Karnataka	2010
10	Growth and characterization on bimetallic thiyocyanate single crystal of CdHg(SCN) ₄	International conference on advanced materials and its applications (ICAMA-2011)	Kalasalingam University, Sivaksai	2011
11	Gateway of Crystal Growth and its Applications	Research in crystal growth process and methods	Department of Physics, Mother Teresa University, Kodaikanal	2013
12	Crystal Growth and NLO materials Applications	UGC Sponsored one day National level seminar on recent advances in chemistry (RAC-2015)	Department of Chemistry, G.T.N Arts College, Dindigul	2015
13	Growth and Characterization of γ irradiated single crystal of CMTC NLO crystal	Preparation and characterization of Crystalline materials (NCPCCM 16)	PG and Research Department of Physics, Government Arts College, Tiruvanamalai	2016
14	Low dose irradiation (γ -rays) effects of Morphological and optical study on ZnCd (SCN) ₄	International Seminar on Nano Science and Technology (ISNST 2016)	Department of Physics, Mother Teresa University, Kodaikanal	2016
15	Structural and optical properties of cerium doped V ₂ O ₅ Thin film using spray pyrolysis technique	One day International Seminar on Materials Science and Technology (ISMST-2017)	Department of Physics, Mother Teresa University	2017
16	The structural, morphological and optical properties of urea doped LASC NLO single crystal	National Conference on Preparation and characterization of Crystalline materials (NCPCCM 16)	PG and Research Department of Physics, Government Arts College, Tiruvanamalai	2017

17. Seminars/Workshops/Conferences/Symposium - Organized

1	Conference – Organizing Secretary- Recent Trends in Solar Energy and Nanoscience (SENS-2019) held on 08-03-2019.
2	Conference – Organizing Secretary- Recent Advances in Materials Science (RAMS-2019) held on 12-03-2019.

18. List of Publications

International Journals

Sl. No.	Title of the Article	Name of the Journal	Volume, Year, Page No.	ISSN No.	Impact Factor	Scopus Index Yes / No
1	Surface studies on bimetallic thiocyanate ligand based single crystals of MnHg(SCN) ₄ , CdHg(SCN) ₄ and ZnCd(SCN) ₄	Applied Surface Science	257 (2010) 1684–1691	0169-4332	4.439	yes
2	Growth, linear and nonlinear optical and, laser damage threshold studies of organometallic crystal of MnHg(SCN) ₄	Optical Materials	33 (2011) 1654–1660	0925-3467	2.320	yes
3	Growth and characterization of a new non-linear optical barium strontium borate (BSB) single crystal	Materials Chemistry and Physics	121 (2010) 22–27	0254-0584	2.084	yes
4	Growth and properties of novel organic nonlinear optical crystal: l-alaninium tartrate (LAT)	Physica B	405 (2010) 3907–3913	0921-4526	1.453	Yes
5	Growth and physicochemical properties of L-phenylalaninium maleate: A novel nonlinear optical crystal	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	95 (2012) 369–373	1386-1425	2.880	Yes
6	Investigation on rapid growth of 4-N,N-dimethylamino-4'-nitro-methylstilbazolium p-toluenesulphonate (DAST) crystals by SNM technique	Journal of Crystal Growth	312 (2010) 420–425	0022-0248	1.742	Yes

7	Electrical properties of Mg doped ZnSxO1-x nanocomposites	Archives of Applied Science Research	2 (3) (2010) 68-73	0975-508X		No
8	Linear And Nonlinear Optical Properties Of NLO Active L-Phenylalanine L-Phenylalaninium Nitrate Single Crystals	International Journal of ChemTech Research	Vol.2, No.3, pp 1445-1453, July-Sept 2010	0974-4290		No
9	Investigations on the nucleation kinetics and growth of organometallic non linear optical ZCTC crystal	Archives of Applied Science Research	, 2 (4)(2010):17-25	0975-508X		No
10	Growth and characterization on Bimetallic thiocyanate single crystal of Zncd(SCN) ₄	American Institute of Physics	1349, (2011) 1287-1288	978-0-7354-0905-7		Yes
11	Structural And Optical Properties Of Cerium Doped V ₂ O ₅ Thin Film Using Spray Pyrolysis Technique	International Research Journal of Engineering and Technology	6 (2017) 367-369	2395-0056		No
12	The Structural And Optical Properties Of Urea Doped LASC NLO Single Crystal	International Research Journal of Engineering and Technology	6 (2017) 402-404	2395-0056		No
13	Low dose irradiation (γ -rays) effects of Morphological and optical study on ZnCd (SCN) ₄	International Journal for Research in Science Engineering & Technology		2394-739X	0.833	No
14	Investigation on the Growth and Characterization of Nonlinear Optical Single Crystals of Tris-Allyl Thiourea Mercury Bromide (ATMB)	Archives of Applied Science Research	2 (3)(2010):171-182	0975-508X		No
15	Growth and Electrical Characterization of NLO La Doped ZCTC Single Crystal	Design Engineering	8(2021)115 66-11573	0011-9342	1.4	yes

16	A noticeable improvement in opto-electronic properties of nebulizer sprayed In ₂ S ₃ thin films for stable-photodetector applications	Micro and Nanostructures	169 (2022)2073 37	2773-0123	3.22	Yes
17	Noticeable photo-sensing properties of SnS:Cu thin films fabricated by thermal evaporation technique	Solid State Sciences	128(2022)1 06889	1293-2558	3.75	Yes
18	Gamma ray-irradiated induced effects on SCN ligand-based MMTC single crystals for optoelectronic applications synthesized by SR method	J Mater Sci: Mater Electron	33, (2022) 20616– 20630	1573-482X	2.8	yes

National Journals

Sl. No.	Title of the Article	Name of the Journal/Book	Publisher Name	Volume, Year & Page No.	ISSN No.	Impact Factor	Scopus Index Yes / No
1	Applications of Nanomedicine in Animal Models of Cancer	Handbook of Animal Models and its Uses in Cancer Research	Springer, Singapore	(2022).1 -14	978-981-19-1282-5		Yes
2							
3							

19. Text Books / Edited Books / Chapter(s) in Books Published

Sl. No.	Name of the Book	Publisher's Name	Volume & Year	ISBN No.
1	Nano Physics	New century Book House Pvt. Ltd.	2021	
2				
3				
4				

20. Academic Services in Other Institutions

Sl. No.	Date	Name of the Programme	Name of the Institution
1	2003-2007	Teacher	S.D.A Matriculation Hir.Sec.School, Madurai
2	2010- 2013	Assistant Professor	N. P. R. College of Engineering and Technolgy, Natham, Dindigul.

21. Awards / Recognition Received

Sl. No.	Institutional Level	State Level	National Level	International Level
1	1			
2				

22. Membership in Academic Bodies / Editorial Boards and Board of Studies

1. Life member in an Indian Society For Technical Education, Mumbai
- 2.
- 3.

23. Paper Setters / Examiner ship in other Institutions

1. Mother Theresa University, Kodaikanal
2. Mannar Thirumalai Naidu College, Madurai
3. Sri Kaleswari Arts and Science College, Sivakasi

24. Students' Welfare Activities

- 1.

25. Co-curricular / Extra Curricular Activities in the College

1. Placement Coordinator
2. Coordinator for Redington
3. NSS Programme Officer

26. Social Responsible Activities

1. Co- coordinator for Tamilnadu Engineering Admission
2. Coordinator for Rotract Culb of GTN Arts College