



Raja Doraisingam Government Arts College

(Affiliated to Alagappa University, Karaikudi)

Sivagangai - 630561



FACULTY PROFILE



1. Name : **Dr.A.CYRAC PETER**
2. Father's / Husband's Name : **V.ADAIKALAM**
3. Designation : **Asst.Professor**
4. Age and Date of Birth : **44 & 04-06-1971**
5. Gender : **Male**
6. Address for Communication : Fisherpatnam
Rajakembiram (P.O)
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9. Educational Qualification :

S.No.	Course	University/College	Year of Passing	Grade
1	Ph.D (Physics)	LoyolaCollege,Chennai- University of Madras	March 2009	
2	M.Phil(Physi cs)	Alagappa University,Karikudi	June 2001	I Class & 63.7%
3	M.Sc.,(Physi cs)	St. Joseph's college, Trichy Bharadhidasan University	April 1994	I Class & 71.67%
4	B.Sc.,(Physic s)	St. Joseph's college, Trichy Bharadhidasan University	April 1991	I class & A Grade

10.Area of Specialization : **material Science, Crystal growth**

11.Experience :

S.No.	Name of Organisation	From	To	Year of Experience
1.	Raja DoraisingamGovt.Arts College-Sivagangai	14-08-12	Till date	10Y 5M17D
2.	Govt.Arts College,Dharmapuri	28-02-11	13-08-12	1Y 5M 15D
3.	Thirumalai Engineering College, Kancheepuram	01-09-99	26-02-11	11Y 3M 25D
4.	Matha college of Arts & Science - Manamadurai	10-09-97	31-08-99	1Y 9M 25D
5.	Kanchi Shri Krishna College of Arts and Science-Kanchipuram	20-09-95	09-09-97	1Y 9M 18D
6.	Seikalathur Kamachiamman polytechnic – Manamadurai	17-08-94	19-09-95	1Y 1M 00D
			Total	27 Y 8M

12.Publications:

S.No	Title	Name of the Journal	ISSN / ISBN	Year
1	One step solvothermal synthesis and characterization of rGO/NiO nanocomposite	Materials today proceedings	ISSN 2214-7853	2019
2	Synthesis of Reduced Graphene Oxide/Co ₃ O ₄ nanocomposite electrode material for sensor application	Research on chemical intermediates	ISSN 1568-5675	Vol 45.3033-3051 (2019)
3	Reduced graphene oxide based on simultaneous detection of neurotransmitters	Progress in chemical and biochemical research	ISSN 2645-6133	Vol 01, 1-80 (2019)
4	Growth, optical and electrical properties of l-lysine-L-tartaric acid (LLLT) nonlinear optical single crystals for electro-optic applications	Journal of Materials Science: Materials in Electronics(Springer)	ISSN 0957-4522	Vol 27,(12) 2016, pp 12719–12728

5	Growth and characterization of amino based organic nonlinear optical L-Lysine-L-Aspartate (LLA) single crystal for electro-optic applications	Journal of Materials Science: Materials in Electronics(Springer)	ISSN 0957-4522	Vol 27,(1)2016, pp 5006-5015
6.	Thermal, Optical ,Mechanical and Electrical properties of a Novel NLO active L Phenylalanine L-phenylalaninium Perchlorate Singel crystals	Physica B (International Journal)	ISSN 0921-4526	Vol.405, (1),2010,pp 65-71
7.	Synthesis, Growth , Absorption and FT-IR Studies of Non linear optical LPAPCI Single crystal	International Journal of Chemical Sciences	(ISSN 0972-768X CODEN IJCSIL)	Vol.7 (1):2009,p p 415-422
8.	Growth and characterization of single crystals of $4\text{Na}_3\text{Sb}_4\text{F}_{15}$	Convergence (National Journal)		Vol.8, No,1-(4), 2006. pp, 15-19,
9.	Optical, Microhardness, Dielectric and Conductivity Studies of single crystals of Na_2SbBF_8 Single Crystal	Archives of Applied Science Research	(ISSN 0975-508X CODEN(USA)AASRC9)	Vol.2, (1),2010. pp, 191-197,
10.	Growth, FT-IR and DFT Study of L -Phenylalanine	Archives of Applied Science Research	(ISSN 0975-508X CODEN(USA)AASRC9)	Vol.2, (2),2010. pp, 223-232.
11.	Thermal, ,Mechanical, Optical and Conductivity Studies of a Novel NLO active L-Phenylalanine Lphenylalaninium dihydrogenphosphate single crystal	Physica B	ISSN 0921-4526	Vol.405, (2010) pp, 3365-3370
12.	Investigations on the Optical, electric, dielectric and mechanical properties of nonlinear optical LAM crystal.	Archives of Physics Research	(ISSN 0976-0970)	Vol.1, (2),2010. pp, 94-102

13.	Linear and Nonlinear Optical Properties of NLO active L-Phenylalanine L-Phenylalanine Nitrate Single crystal	International Journal of ChemTech Research	CODEN(USA): IJCRGG ISSN : 0974-4290	Vol.2, (3),2010 pp 1445-1453
14.	Electrical and photoelectrochemical (PEC) properties of slurry coated CdS _x Se _{1-x} Films	Der Chemica Sinica.,	CODEN (USA) CSHIA5 ISSN: 0976-8505	Vol.2.(1), 2011 pp 118-124
15.	Growth and characterization of novel semiorganic nonlinear optical crystals of L-phenylalanine hydrochloride (LPHCl)	Advances in Applied Science Research,	CODEN (USA): AASRFC ISSN: 0976-8610	Vol.2.(1), 2011 pp 261-268
16.	Growth and electrical properties of NLO crystal of L-Asparaginium nitrate(LAsN)	Archives of Applied Science Research	ISSN 0975-508X CODEN(USA)AASR C9)	Vol.3, (1),2011. pp, 235-240.
17.	Electrical Properties of L-Proline tartrate (LPT)-A new organic non linear optical material	Archives of Applied Science Research	ISSN 0975-508X CODEN(USA)AASR C9)	Vol.3, (1),2011. pp, 180-185.`
18	Sensitivity enhancement in rGO/Mn3O4 hybrid nanocomposites: A modified glassy carbon electrode for the simultaneous detection of dopamine and uric acid	Synthetic Metals	ISSN 0379-6779	280 (2021) 116859
19	Palladium nanospheres incorporated Polythiophene nanocomposite:Investigation of potency promising antimicrobial efficacy	Inorganic Chemistry Communications	ISSN 1387-7003.	144,10986 7 (2022)
20	ZnO nanorods bonded polythiophene nanocomposite: an enhanced electrochemical voltammetric biosensing of L-tryptophan	Bulletin of Materials Science	eISSN: 0973-7669	(2022) 45:57

13. Paper Presented in Conferences/ Seminar:			
S.No	Title of papers	Institution	Date
1	Growth & Dielectric analysis of NaSb ₃ F ₁₀ Single Crystal	National Conference on current trends in condensed matter research held at Kakatiya University, Warangal	(Sep 20 th - 22 nd 2004
2	Growth & Dielectric analysis of NaSb ₃ F ₁₀ Single Crystal	Interantional Conference on Spectrophysics, Post Graduate research department of Physics, Pachaippa college, Chennai,	Feburary 9 – 12, 2005
3	Growth and Characterization of K ₃ Sb ₄ F ₁₃ Single Crystals	Symposium on Nonlinear Optical Crystals and Modelling in Crystal Growth, organized by Dept. of Physics, Anna University, Chennai	Feburary 21– 22, 2005
4	Growth and Characterization of Organic Nonlinear Optical L-PyroGlutamic acid Single Crystals,		
5	Growth and Characterization of Nonlinear Optical Sodium Paranitrophenolate Dihydrate crystals from aqueous solution		
6	Growth and Microhardness of Na ₃ Sb ₂ F ₉ Single Crystals	Tenth National Seminar on Crystal Growth, Kongu Engineering College, Erode	Jan 27-29, 2005
7	Studies on Electro-optic and Superionic Na ₂ SbF ₅ -(NH ₄) ₂ SbF ₅ Cocrystals		
8	Growth and Microhardness Studies of NaSbF ₄ Single Crystals	National Symposium on Crystal Growth and Characterization, Department of Physics, Loyola College, Chennai- 600 034,	Sep. 29-30, 2005
9	Thermal, Spectral and Mechanical properties of Electro-optical NH ₄ Sb ₂ F ₇ Crystal		
10	Growth and Characterization of Quadratic nonlinear optical Sodium Para-nitrophenolate dihydrate Single crystals		
11	Growth and Characterization of single crystals of Na ₃ Sb ₄ F ₁₅	National Conference of Crystal growth for electro-optic applications, Karunya Institute of Technology and Sciences,	June 16-17, 2006

		Coimbatore,	
12	Characterization of single crystals of $\text{Na}_3\text{Sb}_4\text{F}_{15}$	11 th National Seminar on Crystal Growth, Center for Crystal Growth, SSN College of Engineering,	December 7-9, 2006
13	Growth And characterization of Non Linear optical Single Crystals of Na_2SbF_5		
14	Optical, Mechanical and Dielectric Properties of a Novel Organic NLO Crystal of Mono-L-Alaninium Nitrate	SEVENTH DAE - BRNS National Laser Symposium (NLS-7	Dec17-20 2007
15	Growth And Characterization OF LPAM Single Crystal	National Conference on Advanced Functional Materials, Department of Physics, Faculty of Engineering and Technology, SRM University, Kattankulathur,	Feb15-16 2008
16	Optical and Mechanical properties of L-phenylalanine L-phenylalaninium perchlorate (LPAPCL) single crystal		
17	Growth and Characterization of a novel organic NLO crystal of mono-L-alaninium nitrate		
18	Dielectric and photoconductivity of organic NLO crystals of LPAM		
19	Spectral and dielectric studies on L-phenylalanine L-phenylalaninium perchlorate (LPAPCL) single crystals:	6 th National conference on emerging trends in crystal growth and nano materials (NECAN) Department of Physics, Loyola College Chennai-34,	Feb28-29 2008
20	Structural, spectral and optical studies of L-phenylalanine L-phenylalaninium dihydrogenphosphate (LPADHP) -a semiorganic NLO material	National seminar on crystal growth of Non-Linear Optical materials, Department of Physics, National college, Trichy,	March,3-4 2008
21	Optical and thermal properties of a new nonlinear optical LPAF single crystal		
22	Investigation on the growth and characterization studies of LPAN single crystal:		
23	Crystal growth and dielectric studies of the semiorganic NLO crystal L-phenylalanine L-		

	phenylalaninium perchlorate (LPAPCL):		
24	Optical and Non-linear Optical studies of pure and doped L-arginine acetate Crystals		
25	Studies on the Electrical, Thermal, Structural and Optical Properties of L-Histidine Dihydrobromide Single Crystals:		
26	Optical, Mechanical and Dielectric studies on semiorganic single crystals of L-Histidine dihydrochloride		
27	Solution growth of Semiorganic nonlinear optical L-Histidine hydrochloride monohydrate single crystals and its structural, optical, mechanical and thermal characterization		
28	Growth and characterization of nonlinear optical LHP single crystal		
29	Synthesis, Growth And Characterization of A Novel Semiorganic NLO Crystal of L-Arginine dihydrofluoride		
30	Growth, Mechanical and Electrical studies of Non linear optical single crystal of L-argininium dinitrate		
31	Synthesis, Growth and characterization of pure and doped L-Histidine Acetate Crystals		
32	Growth and Characterization of L – Arginine Diphosphate – a promising NLO Single Crystal		
33	Growth, Mechanical and Electrical studies of Non linear optical single crystal of L-		

	argininium dinitrate:		
34	Synthesis, Growth and Characterization of a Novel Semiorganic NLO Crystal of L-Arginine dihydrofluoride		
35	A comparative study of mechanical and dielectric properties of some novel semiorganic nlo materials”	International conference on Advanced materials Dept.of physics,PSG college of Technology-Coimbatore-541004	Dec 12-16 ,2011
36	Preparation and characterization of ZnO nanowires and nanospikes by Templateless seed layer –Free Electro deposition Techniques.	Nandha Arts and Science College- Erode	Feb 2-3 2012
37	Optical and Mechanical Properties of L-Lysine-L-Tartaric acid (LLLT) Nonlinear Optical Single Crystals”	National conference on Preparation and Characterization on Crystalline Materials	August 4-5 ,2016
38	Synthesis and characterization of amino based organic nonlinear optical L-Lysine-L-Aspartic acid (LLA) single crystal	Department of Physics, Govt. College, Thiruvannamalai	
39	Electrochemical sensing Performance for Additives based on reduced graphene oxide	National Conference on “Advanced Materials-2016” (NCAM-2016)	07.10.2016
40	Structural, Optical and electrochemical sensing properties of reduced graphene oxide.	One Day International “Conference on Recent Trends in Materials Science and Applications” Sri Meenakshi Government Arts College for Women (A), Madurai.	06.01.2017
41	Advancement and Innovation in Materials Research.	Conference on “Advancement and Innovation in Materials Research” (CAIM 2018), Government Arts College, Melur.	23.10.2018
42	One step solvothermal synthesis and characterization of rGO/NiO Nanocomposites.	International conference on “Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells” (ICENES’19), The Gandhigram Rural Institute,	07.01.2019 & 08.01.2019

		Gandhigram, Dindugal.	
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14.Seminar / Conference / workshop / Attended:

S.No.	Institution	Date & Year
1.	National seminar on Advances in cryogenics and its applications Dept. of Mechanical Engg. SCSVM- Kanchipuram	March 23-24 ,2007)
2.	National seminar on Micro and Nano-technology Advances and Implications Dept. of Engg & Science SCSVM University- Kanchipuram	March 21-22,2008
3.	National seminar on Role of rural education institutions for quality Enhancement measures in Higher Education,Kanchi Shri Krishna College of arts Science,Kanchipuram	Sep 25-26 2009
4.	National seminar on Emerging Research Trends in Basic Sciences SCSVM- Kanchipuram	March 19,2010
5.	ORIENTATION COURSE -UGC Academic staff College- Madras University	4/5/11 to 2/6/11
6.	REFRESHER COURSE -Madurai Kamaraja University -Current Trends in Condensed matter Physics	12/11/13 to 2/12/13
7.	Faculty Development & Training Program on spoken tutorial based software Training – IIT Bombay.	2/12/13
8	Refresher Course in Environmental Studies , ASC - University of Madras, Chennai	18-2-2021 - 3-3-21
9	Refresher Course in Managing Online Classes & Co- creating Teaching Learning Centre, Ramanujan College.UNIVERSITY OF DELHI MOOCS 5.0,	11-5-2021 – 25-5-21
10	Refresher Course in physics, Teaching Learning Centre, Ramanujan College.UNIVERSITY OF DELHI	28-7-22 - 11.8.22

15.Details of Research Projects :

Title	Sponsoring Agency	Amount	Responsibility	
Novel Nanocomposite of Cobalt Oxide - Reduced Graphene Oxide	Student Minor Project TNSCST	15000	2016-Completed	-

for Electrochemical Sensor Device Fabrication				
Efficient Visible light induced Photocatalytic degradation of Synthetic dye of GQDs/Fe ₃ O ₄ /Ppy ternary nanocomposite	Student Minor Project TNSCHE	7500	2021-22-Completed	

16.Ph.D Guidance/Supervisorship:

Name of scholar	Course	Area of research	Status
N. Y. MAHARANI	Ph.D	Crystal growth	Completed
G. VINODHKUMAR	Ph.D	Material Science	Completed
S. DHEEPHI GUNAVATHANA	Ph.D	Material Science	Completed

17.Seminar/ Conference/ Workshop Organised:

S.No.	Topic	Institution	Date
1	Highlights of Physics in Current Scenario	Raja Doraisingam Govt. Arts College, Sivagangai	10-03-2020
2	Materials for Energy Applications	Raja Doraisingam Govt. Arts College, Sivagangai	24 &25 March 2022
3	Webinar Series in Physics	Raja Doraisingam Govt. Arts College, Sivagangai	13-7-2020,22-7-2020,29.7.2020,5.8.2020,12-8-2020

18.Resource Person:

Sl.No.	Topic	Delivered at	Period
1	Nano Materials	Thirumalai engineering college, kanchipuram, Tamil nadu	30/3/2012
2	Introduction to X-ray Crystallography	Govt. Arts College,Sivagangai	13/2/2015
3	Space Science	St.Justin Arts And Science College Cholapuram	Feb 2019
4	Physics lab experiment training and class teaching for School Teachers	R.D. Govt College Sivagangai	March 2019
5	Student SCOPE PROJECT in	Sivagangai	25-02-2019

	Tamilnadu Govt.School Education,Sivagangai		
6	Partital Differential equation and its Applications	RDGAC-Sivagangai	6-7-2020

1. Members in Organization's :

Indian Physics Association - Life Member (GEN/LM/12553)

Indian Biophysics Association - Life Member (LM/734)

2. Other Positions/Achievements:

(Signature)