

Raja Doraisingam Government Arts College

Sivagangai-630561

FACULTY PROFILE

Department:

1. Name : S.Mahalakshmi
2. Father's / Husband's Name : Dr.P. Selvaraj
3. Designation : Assistant Professor
4. Age and Date of Birth : 34 yrs, 10/05/1981
5. Gender : Female
6. Address for Communication : No – 423-24 A, Royal Garden,
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7. Educational Qualification :

S.No.	Course	University/College	Year of Passing
1.	B. Sc.	N. M. S. S. V. N. College, Madurai.	2001
2.	M. Sc.	School of Physics, Madurai Kamaraj University, Madurai.	2003
3.	M. Phil	School of Physics, Madurai Kamaraj University, Madurai.	2004
4.	Ph. D	School of Physics, Madurai Kamaraj University, Madurai.	2019

8. Area of Specialization: Non-Linear Optics

9. Experience :

S.No.	Name of Organization	From	To	Year of Experience
1.	School of Physics, Madurai Kamaraj Univeristy	2006	2007	1 yr
2.	Saraswathi Narayanan College, Perungudi, Madurai	2007	2009	2yrs 3 mmonths
3.	Raja Doraisingam Government Arts College, Sivagangai	2009	Till date	14 yrs

10. Publications :

S.No.	Title	Name of the Journal	ISSN / ISBN	Year
1.	Photoacoustic Spectroscopy as an NDT tool for thin films	NDT.net	Vol. 9, No. 06	June 2004.
2.	The effect of Dielectric function on a laser dressed donor impurity in an Inverse Quantum well	Journal of Computational and Theoretical Nanoscience	Vol. 7, No. 6	June 2010.
3.	Optical and Structural studies of BaTiO ₃ and SrTiO ₃	Journal of Nano Science and Nano Technology	Vol. 2, Issue 6, Pp. 735-738, ISSN 2279-0381	Feb. 2014.
4.	Preparation of meta-stable phases of barium titanate by sol-hydrothermal method	AIP advances	Vol. 5, issue 11, 117119	Nov. 2015
5.	Misidentification of hexagonal phase as barium carbonate during chemical synthesis of barium titanate nanopowders	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2019.06.713	2020
6.	Influence of tin(IV) doping on structural and optical properties of rhombohedral barium titanate (BaTiO ₃)	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2019.05.302	2021

7.	One step solvothermal synthesis and characterization of rGO/NiO nanocomposites	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2019.06.004	2021
8	Enriched second-harmonic generation in meta-phase barium titanate nanostructures synthesized by sol-gel hydrothermal method	Journal of Alloys & Compound	https://doi.org/10.1016/j.jallcom.2022.168171	2022
9	10 - Heavy metal oxide glasses and their optoelectronic applications (infrared transmission, luminescence, nonlinear optical susceptibilities, etc.)	https://www.sciencedirect.com/science/book/9780323858243	https://doi.org/10.1016/B978-0-323-85824-3.00012-9	2022

11. Paper Presented in Conferences/ Seminar :

S.No.	Title	Institution	Date & Year
1.			
1.	State Level Seminar on “Solar Energy Applications”	P. G. and Research Department of Physics, The Madura College	24 th December 2009.
2.	Regional Conference on Photoacoustics in Condensed Matter Physics and NDT(PAC-2004)	School of Physics, Madurai Kamaraj University	March 8 & 9,2004.
3.	“National Seminar on Frontier in Nanomaterials and Biosensors (NSFNMB 10)”	Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi	4 th -5 th March 2010.
4.	International Conference on Nano Science and Nano technology.	Coimbatore Institute of Technology, Coimbatore jointly with Centre for Research and Advanced studies of IPN-Mexico	6 th -8 th July, 2011
5.	International Conference on Advanced Materials (ICAM	PSG College of Technology, Coimbatore.	2011

	2011),		
6.	International Conference on Advanced Materials, Processing and Devices (AMPD-2013)	Department of Materials Science, School of Chemistry, Madurai Kamaraj University, Madurai.	15-16 July, 2013
7.	International Conference on Nano Electronic Science & Technology (ICNEST 2014)	PG & Research Department of Electronics, Sri Vasavi College, Erode, Tamilnadu	14 th & 15 th Feb-2014
8.	National Seminar on X-ray Crystallography (NSXC-2014)	School of Physics, Madurai Kamaraj University, Madurai	29 th september-1 st October 2014
9.	International Conference on Advanced Functional Materials for Energy, Environment and Biomedical Applications AFMEEB-2017	Madurai Kamaraj University, Madurai	11-12 December-2017
10.	National Symposium on Advances in Functional and Exotic Materials	MRSI Trichy Chapter & Centre for High Pressure Research, Bharathidasan University, Tiruchirapalli.	14-16 th February-2018
11.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells (ICENES-2019)	Department of Physics, The Gandhigram Rural Institute, Gandhigram	7-8 January 2019.
12.	International Conference on Advanced Materials for Clean Energy & Health Applications (AMCEHA-2019)	University of Jaffna, Sri Lanka	6-8 th February-2019

12. Seminar / Conference / workshop / Attended:

S.No.	Institution	Date & Year
1.	“Opportunities and National Facilities in Condensed Matter Physics” conducted by the School of Physics under the Departmental Research Support by University Grants Commission.	17-18 March, 2003
2.	“Recent Trends in Condensed Matter Physics” (RTCMP-2010-State Level) at School of Physics under UGC-DRS-Phase III Programme.	15-16, February, 2010
3.	International Conference and Workshop on New materials and Devices for Photovoltaic Applications” (ICWNMDP-2011) organized by the Department of Materials Science, School of Chemistry, Madurai Kamaraj University, Madurai.	10-12 th February 2011,
4.	Attended orientation course conducted by TANSHE and UGC Academic Staff college University of Madras	09.07.2009 to 05.08.2009.
5.	Attended refresher course conducted by Academic Staff college, Madurai Kamaraj University	10.11.2010 to 30.11.2010
6.	Attended NSS Refresher Course conducted by Academic Staff College, Madurai Kamaraj University	27.01.2015 to 16.02.2015.
7.	Refresher Course, UGC – Sponsored Refresher course conducted by Academic Staff College, Madurai Kamaraj University, Madurai.	18.12.2018 to 07.01.2019
8.	A two day Science Academie’s Lecture Workshop on Emerging Trends in Material Science, Department of Physics, Raja Doraisingam Govt. Arts College, Sivagangai.	3-4 th January 2017
9.	Solar Cells, Materials and Modelling, MHRD Scheme: Global Initiative for Academic Networks (GIAN), Dept. of Materials Science, School of Chemistry, Madurai Kamaraj University, Madurai.	May 29-June 10, 2017.
10.	One day International Conference on Recent trends in Materials Science and Application held at Sri Meenakshi Govt. Arts College for Women, Madurai	6 th January 2017

11	MRSI Trichy Chapter & Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli-62004	held on 14th-16th, February 2018.
12	Department of Physics, The Gandhigram Rural Institute (Deemed to be University), MHRD, Gandhigram-624302,	held on January 7-8, 2019.
13	Western Norway, University of Applied Sciences & University of Jaffna, Sri Lanka,	held on February 6-8, 2019

13. Details of Research Projects :

Title	Sponsoring Agency	Amount	Responsibility
Search for Novel Non-Linear Optical materials	UGC-Minor Research Project	Rs. 3, 05, 000/-	
SEARCH FOR NOVEL METHOD TO SYNTHESIZE ZINC TITANATE FOR DYE SENSITIZED SOLAR CELL APPLICATION	TANSCHE Sponsored Students project Scheme 2021-2022	Rs. 7500/-	

14. Ph.D Guidance/Supervisorship: -----

Name of scholar	Course	Area of research	Status

15. Seminar/ Conference/ Workshop Organised: -----

S. No.	Topic	Institution	Date
1	National Science day (Acted as organising committee member)	PG & Research Department of Physics, Raja Doraisingam Govt. Arts College, Sivagangai	22nd february 2018
2	National Science day	PG & Research Department of	27.02.2020

	(Acted as organising committee member)	Physics, Raja Doraisingam Govt. Arts College, Sivagangai	
3	Physics Alumni sponsored one day national seminar on "High lights of Physics in current scenario" (Acted as organising committee member)	PG & Research Department of Physics, Raja Doraisingam Govt. Arts College, Sivagangai	10th march 2020
4	Webninar (Acted as Program co-ordinator)	PG & Research Department of Physics, Raja Doraisingam Govt. Arts College, Sivagangai	12.08.2020
5	Advanced Physics Quiz Programme-5 (Acted as Program co-ordinator)	PG & Research Department of Physics, Raja Doraisingam Govt. Arts College, Sivagangai	14.06.2020
6	TANSICHE sponsored two day National Seminar on " Materials for Energy Applications" (Acted as Program co-ordinator)	PG & Research Department of Physics, Raja Doraisingam Govt. Arts College, Sivagangai	24.03.2022, 25.03.2022

15.Resource Person: -----

Sl.No.	Topic	Delivered at	Period
1.	Non-Linear Vs Linear Optics	VVV College for Women, Virudhunagar	July-2019
2.	Nano Materials	Dept. of Physics, Govt. Arts College for Women, Sivagangai	Dec-2018
3.	Thermodynamics (for School teachers training programme)	R. D Govt. Arts College, Sivagangai	Mar-2019

16. Members in Organization's : -----

17. Other Achievements: ----- Has cleared SET examinations

(Signature)