



Raja Doraisingam Government Arts College
(Affiliated to Alagappa University, Karaikudi)
Sivangai - 630561



FACULTY PROFILE

1. **Name** : Dr.Ra. Shanmugavadivu
2. **Father's Name** : R. Ravindranathan
3. **Designation** : Assistant professor
4. **Age & Date of Birth** : 48, 15-05-1974
5. **Gender** : Female
6. **Address for Communication** :1/93- Amman Nagar, Sowmiyanarayana puram
Thirupathur -630210
7. **Phone No** : **9865040724**
8. **Email- id** : rsvadivu@rediffmail.com
9. **Educational Qualification** :



S.No.	Course	University/College	Year of Passing
1	B. Sc Physics	Madurai Kamaraj University, Madurai. / A.P.S.A College of Arts & Science, Thirupathur.	1994
2	M. Sc Physics	Alagappa University, Karaikudi.	1996
3	M.Phil Physics	Alagappa University, Karaikudi.	1997
4	B.Ed	Alagappa University, Karaikudi.	1999
5	Ph. D	Alagappa University, Karaikudi.	2006

10. **Area of Specialization** : **Thin films, Crystal Growth, Nanoscience**

11. **Experience** :

S. NO	Name of Organisation	Period		Year of Experience
		From	To	
1	Department of Physics, Alagappa University.	2001	2003	2
2	J. J. College of Arts and Science, Pudukkottai.	2004	2007	3

3	K.L. N College of Engineering and Technology, Madurai.	2007	2008	1
4	Raja Doraisingam Government Arts College, Sivagangai	2009 onwards		14

10. Publications: (Last Five Years)

S.No.	Title	Name of the Journal	ISSN / ISBN	Year
1	Synthesis, growth and characterization of new mixed analogs of LAP family crystals	Material science and Engineering:B	0921-5107	2004
2	Growth and characterization of L-arginine fluoro phosphate—a new additive for fluent growth microbes	Journal of crystal Growth	0022-0248	2004
3	Crystal growth, thermal and optical studies of nonlinear optical material: Glycine potassium sulphate	Journal of Physics and Chemistry of solids	0022-3697	2006
4	Effect of Annealing on the Characteristics of Nano Crystalline CdS Thin Films Prepared by Chemical Bath Deposition Method	International Journal of Semiconductor Science & Technology	ISSN(Print):2250-1576; ISSN(Online): 2278-9405	2013
5	NiS/ZnS multilayer thinfilm prepared by chemical bath deposition method	AIP Publishing LLC	ISSN(Print):0094-243X; ISSN(Online): 1551-7616	2013
6	Effect of Annealing on Optical and Structural properties of ZnS/MnS and MnS/ZnS Superlattices Thin films for Solar Energy Application	Optik - International Journal for Light and Electron Optics	ISSN – 0030-4026	2014
7	Influence of Ni on structural, morphological and optical properties of nanocrystalline CdS thin films prepared by chemical bath deposition method	Journal of Materials Science: Materials in Electronics	ISSN-0957-4522(print) 1573-482X (web)	2016
8	Optical properties of Co doped Zn films by chemical bath deposition technique	Advanced Materials & Applications Madras Journal Series Pvt Ltd	ISSN-2582-5070	2019
9	Structural and Electrochemical Investigation on Pure and Aluminium Doped Nickel Ferrite Nanoparticles for Supercapacitor Application	Materials today: proceedings	ISSN-2214-7853	2020

10	Structural and Electrochemical Investigation on Pure and Nickel Doped Cobalt Ferrite Nanoparticles for Supercapacitor Application	Materials today: proceedings	ISSN -2214-7853	2020
11	Preparation and Characterization of NiS/ZnS bilayer thinfilm by chemical bath deposition method	Journal of shanghai for science and technology	ISSN-1007-6735	2021

11. Paper Presented in Conferences/ Seminar:

S.No.	Title	Institution	Date & Year
1	Optical properties of ZnS/MnS Super lattices Thin films for Solar Energy Application	Loyala College, Chennai.	5 th - 7 th January, 2012.
2	Effect of Annealing on Optical and Structural properties of ZnS/MnS Superlattices Thin films for Solar Energy Application	Vellor Institute of Technology, Vellor.	20 th -22 th February, 2012.
3	Synthesis and Characterization of Ni Doped ZnS Nanoparticles	K.S. Rangasamy College of Technology, Tiruchengode.	21 th -25 th . November, 2012.
4	NiS/ZnS multilayer thinfilm prepared by chemical bath deposition method	Govt. College of Engineering & Technology, Bikaner.	01 st -02 nd , February, 2013.
5	Chemical Bath Deposition of NiS/ ZnS Superlattice Thin films	Anna University, Chennai.	6 th -8 th , February, 2013.
6	Optical Properties of Cu doped ZnS Thin films	Anna University, BIT Campus, Tiruchirappalli.	16 th -17 th , October, 2015
7	Copper doped Nickel Sulphide Thin film by Chemical Bath Deposition Method.	V.O. Chidambaram college, Thoothukudi,	Jan 21 st &22 nd 2016
8	A Study of structural and optical properties of CuZnS and CuNiS thin film by CBD method.	Jamal Mohamed College, Tiruchirappalli	Feb. 29 th , 2016
9	Characteristics of CdS/CuS and CuS/CdS thin films deposited by chemical bath deposition”.	Alagappa University, Karaikudi.	Jan. 19 th , 2017
10	Structural and optical properties of CdS/NiS and NiS/CdS bilayer thin films”,	National Institute of Technology, Tiruchirappalli.	Feb. 27 th & 28 th , 2017.
11	Influences of Zn doping on structural, optical and electrical properties of CdS thin films.	Anna University, BIT campus, Tiruchirappalli.	Mar. 13 th - 15 th , 2017.

12	Structural, Optical and Magnetic analysis on co-precipitated spinel ferrites (MFe ₂ O ₄) (M=Ni, Co, Zn, Cu).	Sevugan Annamalai college Devakottai.	6 th September 2019
13	Hydrothermal synthesis of NiFe ₂ O ₄ and CoFe ₂ O ₄ nanoparticles structural, morphological and optical properties.	Sevugan Annamalai college Devakottai.	6 th December 2019
14	Structural and Electrochemical investigation on pure and aluminium doped nickel ferrite nanoparticles for supercapacitor application.	Amirta school of engineering, Coimbatore.	15-17 December 2019
15	The effect of annealing time of the cobalt ferrite nanoparticles on structural, optical, magnetic and photocatalytic analysis	National seminar on Materials for energy applications ,Rajadoraisigam Govt. Arts College, Sivagangai.	24 & 25 th March 2022
16	Structural,magnetic and photocatalytic study analysis on Ni _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles.	National seminar on Materials for energy applications ,Rajadoraisigam Govt. Arts College, Sivagangai	24 & 25 th March 2022

12. Seminar / Conference / workshop / Attended:

S.No.	Institution	Date & Year
1	Loyala College, Chennai.	5 th - 7 th January, 2012.
2	Participated NAAC sponsored National Seminar of Disruptive innovation in Higher Education curriculum-Quality Enhancement of Digital Natives and Promoting Social Equity held at FATIMA college Madurai	30-08-2019

13. Details of Research Projects :

Title	Sponsoring Agency	Amount	Responsibility

14. Ph.D Guidance/Supervisorship:

Name of scholar	Course	Area of research	Status

J.Yuvaloshini	Ph.D.,	Thinfilms	Completed
B.Kaleeswaran	Ph.D.,	Nanoscience	Ongoing
P.Ramadevi	Ph.D.,	Nanoscience	Ongoing
K.Thenmozhi	Ph.D.,	Nanoscience	Ongoing
Ph.D Supervisor	Alagppa university- Karaikudi	Ph.D., Guideship/2012	

15. Seminar/ Conference/ Workshop Organised:

S.No.	Topic	Institution	Date
1	Organized TANSCHÉ sponsored Two Days Conference on ' <i>MATERIALS FOR ENERGY APPLICATIONS</i> '	Raja Doraisingam Govt.Arts College, Sivagangai	24&25 th March 2022
2	Organized Alumni Sponsered one day National Seminar on HIGHLIGHTS OF PHYSICS IN CURRENT SCENARIO	Raja Doraisingam Govt.Arts College, Sivagangai	10-03-2020

16. Resource Person:

Sl.No.	Topic	Delivered at	Period
1			
2			
3			

17. Members in Organization's :

18. Other Positions/Achievements: Acted as Expert in the new text book Review Workshop from 10-01-19,11-01-19 and 18-01-2019 at DIET , KALAYARKIOL

(Signature)