



Bio-data of Supervisor



1. Name : Dr. A. RAJESH

2. Address with E-mail and Mobile Nos. :

Official Address : Dr. A. RAJESH
Assistant Professor (Physics)
Freshmen Engineering Department
Aditya University
Surampalem, Kakinada
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Ph.No. : 9788448231.

Permanent Address : 1/152, West Street, Kallanatham PO,
Attur TK, Salem DT, -636141
Tamilnadu.

3. Nationality : Indian

4. Religion : Hindu

5. Date of Birth : 25.01.1985

6. Educational Qualification :
(from UG onwards)

S. No.	Qualification with Specialization	Percentage/ CGPA	Month and Year of Pass	University/Institute
1.	PhD (Nanoscience and Technology)	---	October 2015	Alagappa University, Karaikudi
2.	M.Sc (Nanoscience and Technology)	62%	April 2009	Bharathiar University, Coimbatore
3.	B.Sc (Physics)	71%	April 2007	Nehru Memorial College, Trichy

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7. Details of Doctoral Thesis

Area of Thesis work

: Nanomagnetism

Title of Thesis

: *Synthesis, dielectric relaxation and magnetic characterization of core-shell nanosystems*

Supervisor

: Prof. Dr. K. Gurunathan

Year of award of Ph.D

: 2015

8. Professional Experience

:

9.

S. No.	Institute / Organization	Position held	Date of Joining	Date of Relieving	Duration
1.	Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam	Research Associate	02.09.2015	01.09.2018	3 years
2.	Muthayammal College of Arts and Science, Tamilnadu, India	Assistant Professor	March, 2019	November, 2021	2 Years
3.	SSN Institution, Chennai	Post-Doc	November, 2021	November 2022	1 year
4.	Tagore Institute of Engineering and Technology, Attur	Assistant Professor	14.11.2022	05.08.2024	2 years

10. Research projects completed as Coordinator :

S. No.	Title of the Project	Funding Agency	Sanctioned amount and Year of Sanction	Duration of the Project	Present Status

11. Research Experience

: 4 years

(A) Ph.D scholars guided

:

S.No.	Name of the Research Scholar	Title of the Thesis	Year of Award of Ph.D	University /Institute who has awarded the Degree	Supervisor/ Co-Supervisor

(B) Ph.D scholars presently guiding :

S.No.	Name of the Research Scholar	Area of the work	Year of Registration	Registered University /Institute	Supervisor/ Co-Supervisor

(C) Number of Publications :

S. No	Category	During Ph.D Program	After Ph.D Program
1	International Journals	05	09
2	National Journals	---	--
3	International Conferences	----	03
4	National Conferences	---	---

(D) List of Publications (Only in IEEE/ASME/ASCE format)
(Please mention SCI/Scopus/UGC and Impact factor)

International Journals :

1. Rational strategy for the construction of Z-scheme based MoS₂/Co₃O₄ coupled SrTiO₃ nanocomposite for dye degradation: An experimental and theoretical insights, G Venkatesh, N Elavarasan, A Rajesh, S Senthilnathan, V Vignesh
Materials Science in Semiconductor Processing 169, 107909 (I.F= 4)
2. **A.Rajesh**, M. Srinivasan, G. Venkatesh, P. Ramasamy, Dielectric relaxation of α Fe₂O₃/Gd₂O₃ core-shell nanoparticle obtained through the polyol method, **Ferroelectrics**, (2022), (I.F=0.8)
3. **A.Rajesh**, Sadhasivam Thangarasu, M. Srinivasan, G. Venkatesh, P. Ramasamy, Insight into the role of functional groups on the mechanical, piezoelectric and electrical properties of an individual graphene oxide wrinkle, Diamond and Related Materials, 2022 (I.F=4)
4. R Mahendiran, N Iyandurai, **A Rajesh**, Size and shape effects on polarization reversal of nanoscale BaTiO₃, **Ferroelectrics** **572 (2021), 60-70**, (I.F=0.8)
5. **A. Rajesh**, G. Mangamma, T.N. Sairam and S. Subramanian, "Probing host-guest interactions in hydroxyapatite intercalated graphene oxide nanocomposite: NMR and scanning probe microscopy studies, **Chemical Physics Letters**, **732 (2019) 136636**. DOI: <https://doi.org/10.1016/j.cplett.2019.136636> (I.F=3)
6. PK Sahoo, G Mangamma, **A Rajesh**, M Kamruddin, S Dash, Identification of polar and nonpolar faces in ZnO nanostructures using conductive atomic force microscopy, **Ferroelectrics** **519 (1), 157-163** (I.F=0.8)
7. **A.Rajesh**, G. Mangamma, T.N. Sairam, S. Subramanian, S.Kalavathi, M. Kamruddin and S.Dash, "Physicochemical Properties of Nanocomposite: Hydroxyapatite in Reduced Graphene Oxide" Mat.Sci.Eng. C, 76 (2017) 203-210.DOI: <https://doi.org/10.1016/j.msec.2017.02.044> (I.F=8)
8. **A.Rajesh**, T.N. Sairam, P.K.Sahoo, M.Kamruddin and G. Mangamma, PFM Studies of Hydroxyapatite - reduced Graphene Oxide, **Ferroelectrics**, **519 (2017) 164-169**. DOI: <https://doi.org/10.1080/00150193.2017.1361252> (I.F=0.8)

9. P.K.Sahoo, G. Mangamma, **A.Rajesh**, M.Kamruddin and S. Dash, Identification of polar and nonpolar faces in ZnO nanostructures using conductive atomic force microscopy, **Ferroelectrics**, **519** (2017) 157-163. DOI: <https://doi.org/10.1080/00150193.2017.1361239> (I.F=0.8)

10. **A. Rajesh**, Alo Dutta, K. Gurunathan and T. P. Sinha, “Dielectric Relaxation of NiFe₂O₄/Gd₂O₃ Core-Shell Nanoparticles”, **J. Nanosci. Nanotechnol.** **15** (2015) 6082-6087. DOI: [10.1166/jnn.2015.10278](https://doi.org/10.1166/jnn.2015.10278) (I.F=1.2)

11. **A. Rajesh**, M. Manivel Raja and K. Gurunathan, “Structural and Magnetic Studies of Hydroxyapatite–Encapsulated γ -Fe₂O₃ Core-Shell Nanoparticles”, **Adv. Sci. Eng. Med.** **6** (2014) 1171-1176. DOI: <https://doi.org/10.1166/ase.2014.1632>. (I.F=1.4)

12. **A. Rajesh**, Alo Dutta, K. Gurunathan and T. P. Sinha, “Spin Relaxation of Gd₂O₃/NiFe₂O₄ Core-Shell Nanoparticles”, **Nanosci. Nanotechnol. Lett.** **6** (2014) 450-455. DOI: [10.1166/nl.2014.1705](https://doi.org/10.1166/nl.2014.1705) (I.F=1.84)

13. **A. Rajesh**, M. Manivel Raja and K. Gurunathan, “Spin-Relaxation of NiO Encapsulated Gd₂O₃ Core-Shell Nanoparticles”, **Acta Metall. Sin. (Engl. Lett.)**, **27**, (2014) 253- 258. DOI: <https://doi.org/10.1007/s40195-014-0056-0> (I.F= 3)

14. **A. Rajesh**, M. Manivel Raja, Sujoy Saha, T. P. Sinha and K. Gurunathan, “Synthesis, Physico-Chemical and Electrical Characterizations of Graphene Oxide–Hydroxyapatite Nanocomposites”, **Adv.Sci.Eng.Med.**, **6**(2014)1076-1081. DOI: <https://doi.org/10.1166/ase.2014.1614> (I.F=1.2)

National Journals : Nil

International Conferences :

1. P.K.Sahoo, G. Mangamma, **A.Rajesh**, M.Kamruddin and S. Dash, Polarization induced conductive AFM on cobalt doped ZnO nanostructures, **AIP Conference Proceedings**, **1832** (2017) 050170. DOI: <https://doi.org/10.1063/1.4980403>
2. Band gap narrowing in zinc-tin-vanadium oxide nanocomposites. P. 34
M Chitra, K Uthayarani, G Mangamma, A Rajesh
Proceedings of the national conference on light matter interaction at nanoscale
3. Evidence for charge transfer in BaTiO₃-VGN nano-composite. O. 20
G Mangamma, PA Manojkumar, A Rajesh
Proceedings of the national conference on light matter interaction at nanoscale
4. Investigations on the electrical properties of ZnO - V₂O₅ nanocomposite using conducting atomic force microscopy
M Chitra, K Uthayarania, A Rajesh, G Mangamma
Proceedings of the seventh DAE-BRNS interdisciplinary symposium on materials

National Conferences : Nil

(E) Details of the Book Chapters Published : Nil

(F) Details of the Text Books Authored : Nil

(G) Patents Published : Nil :

S. No.	Title of the Patent	Agency to which application is made	Year of Application

(H) Patents Granted : Nil

S. No.	Title of the Patent	Agency to which application is made	Year of Award

(I) Publication Metrics :

Google Scholar	Scopus
h-index : 05	h-index :
i10 index : 03	Citations :
Citations : 114	

1. Areas of research interests : Nanomagnetism,
Piezoelectrics,
Ferroelectric materials
2. Awards : Nil
3. Membership in Professional organizations : Nil
14. Interested to supervise Full-Time Scholar (Yes/No) : Yes
15. Other information (if any) :

Declaration

I hereby declare that the information furnished is true to the best of my knowledge and belief.

Signature

Date: 17.08.2024

Station: Aditya University