

**Aditanar College of Arts and Science
Virapandianpatnam – 628216
Tiruchendur
Bio – Data**



Name of the Department : **Physics**

Name of the faculty member : **Dr.G.Vasuki**

Qualification : **M.Sc.,M.Phil.,Ph.D.,PGDCA**

Present Designation : **Assistant Professor**

Vidwan id : **419648**

Residential Address : **148/159, Avanankudi street,
Tisaiyanvilai-627657
Tirunelveli District, Tamilnadu.**

Contact Nos. : **9626546233, 6379684325**

Email : **vasuki.suresh.soorya@gmail.com**

Gender : **Female**

Community : **BC**

Date of Birth and Age : **04/08/1979**

Date of joining : **03/07/2013**

Date of Retirement : **03/07/2039**

I. Particulars of Educational Qualification

| Category | Name of the Degree | Specialization | Year of Passing | Name of the College | Name of the University | % of Marks / Grades obtained | Class obtained |
|----------|--------------------|-----------------------|-----------------|---|--|------------------------------|----------------|
| UG | BSc | PHYSICS | 2000 | Govindammal Aditanar College for Women, Tiruchendur | Manonmaniam Sundaranar University, Tirunelveli | 92.625 % | FIRST |
| PG | MSc | PHYSICS | 2002 | Madurai Kamaraj University, Madurai | Madurai Kamaraj University, Madurai | 81.96 % | FIRST |
| M. Phil | MPhil | PHYSICS | 2004 | Manonmaniam sundaranar University, Tirunelveli | Manonmaniam sundaranar University, Tirunelveli | 64 % | FIRST |
| OTHERS | PGDCA | COMPUTER APPLICATIONS | 2009 | Manonmaniam sundaranar University, Tirunelveli | Manonmaniam sundaranar University, Tirunelveli | 80.91 % | FIRST |
| Ph.D. | PhD | PHYSICS | 2020 | Manonmaniam sundaranar University, Tirunelveli | Manonmaniam sundaranar University, Tirunelveli | | |

II Additional Qualification
NET/SLET

: SET

III Title of Ph.D. Thesis

: STUDIES ON CHEMICALLY DERIVED Mg²⁺, Zn²⁺, Cu²⁺, Al³⁺ MIXED MANGANESE FERRITE NANOPARTICLES

IV Faculty/Discipline/Subject in which Ph.D. was awarded

: PHYSICS

List of Publications

: 5 (LIST ATTACHED)

No. of Candidates Completed Ph.D. under your Guidance

: -

No. of candidates doing Ph.D. under your Guidance

: -

V Academic Experience:

| Name of the College | Whether Govt/Aided/S.F. | Designation | Joining Date | Relieving Date | Experience | | |
|---|-------------------------|---------------------|--------------|----------------|------------|----------|-----------|
| | | | | | Years | Months | Days |
| Sri Sarada College for Women, Tirunelveli | S.F | LECTURER | 10.07.2002 | 13.08.2004 | 2 | 1 | 3 |
| Govindammal Aditanar College for Women, Tiruchendur | S.F | LECTURER | 16.08.2004 | 02.07.2013 | 8 | 10 | 17 |
| Aditanar College of Arts and Science, Tiruchendur | AIDED | ASSISTANT PROFESSOR | 03.07.2013 | 03.07.2039 | 10 | 4 | 0 |
| Total | | | | | 21 | 3 | 20 |

VI Administrative/other Experience : 1) **COORDINATOR- INFORMATION CENTRE,**

2) **MEMBER IN IQAC ACTING COMMITTEE, IIC, ECO CLUB, CAMPUS NEWS**

VII Other Relevant Information :

1) Question paper setting

I) St. Xavier's College, Tirunelveli (2004-2006)

II) Sadakathullah appa college, Tirunelveli (2010)

III) Holy Cross College, Nagercoil (2014)

IV) Sri S. Ramasamy Naidu Memorial college, Sattur (2018-2020, 2023)

V) Arul Anandar College, Karumathur (2019)

VI) Muthayammal College Of Arts and Science, Rasipuram (2022)

2) Projects guided:- 11 M.Sc, 2 M.Phil

3) Resource person :-

I) Delivered a guest lecture on "Introduction to nanomaterials" at the Department of Physics, Wavoo Wajeeha Women's College, Kayalpatnam on

II) Delivered a guest lecture on "Physics of nanomaterials and their applications" at the Department of Physics, Govindammal Aditanar College for Women, Tiruchendur On 24.1.2020

4)Journal reviewer:-

I)Materials Research Express –Nov 2018

II)Journal of Physics D-Nov 2019

III) RSC Advances-Dec 2022

5)Books published:-

Allied Physics I & II syllabus for Colleges affiliated to Manonmaniam Sundaranar University, Tirunelveli.

6)FDP programmes attended:

| S.No | Name of the course | Institution | Period |
|------|--|---|---------------------------|
| 1. | Learning and Development Intervention | CLHRD, Karnataka | 28/03/2014 to 30/03/2014 |
| 2. | Orientation course | HRDC, Pondicherry University, Pondicherry | 17/05/2017 to 13/06/2017 |
| 3. | Refresher course in environmental studies | HRDC, Pondicherry University, Pondicherry | 10/07/2018 |
| 4. | Online FDP on Statistical Mechanics | PSGR Krishnammal College for Women, Coimbatore | 25/05/2020 to 29/05/2020 |
| 5. | Refresher course in Physics | HRDC, Pondicherry University, Pondicherry | 04/08/2021 to 17/08/2021 |
| 6. | In-Service Teacher Training in Physical Sciences | Tamilnadu state council for higher education, Rani Anna Government College for Women, Tirunelveli | 05/05/2022 and 06/05/2022 |
| 7. | International online FDP | Department of Physics, Rajapalayam Rajus'College, Rajapalayam | 14/11/2022 to 18/11/2022 |
| 8. | International FDP | Department of Physics, Rajapalayam Rajus'College, Rajapalayam | 21/11/2022 to 25/11/2022 |
| 9. | Refresher course in Physics | HRDC, Madurai Kamaraj University, Madurai | 07/10/2022 to 20/10/2022 |
| 10. | FDP-Data Analytics with Tableau | Manonmaniam Sundaranar University, Tirunelveli | 30/01 2023 to 03/02/2023 |
| 11. | National level online FDP | Department of Physics, Rajapalayam Rajus'College, Rajapalayam | 03/10/2023 to 09/10/2023 |

7)Organizing Programmes:

I)Coordinator in two days internship programme on “chip level testing and debugging for smartphone and tablets” organized by IIC, Aditanar College of Arts and Science, Tiruchendur on 07/11/2022 and 08/11/2022.

II)Organizing secretary in the state level seminar on “Crystal growth and Nanoscience” organized by Department of Physics, Aditanar College of Arts and Science, Tiruchendur on 31 March,2022.

III) Organizing secretary in the interschool science exhibition, Adtanar College of Atrs and Science held on 17 March 2023.

IV)Organizing Secretary in the international conference on “Technologically important materials for device fabrication” organized by Department of Physics, Aditanar College of Arts and Science, Tiruchendur on 1, September 2023.

ATTACHMENTS

LIST OF PAPERS PUBLISHED

| S.No | Title of the paper | Name of the Journal | Vol. No.//Year/Page No. | ISSN number |
|------|--|--|---------------------------------|-------------|
| 1. | Structural and magnetic characterization of copper manganese ferrite nanoparticles synthesized by chemical co-precipitation route | International Journal of Latest trends in Engineering and Technology | Special issue, 2017, pp.132-134 | 2319-3778 |
| 2. | Effect of Cu ²⁺ substitution on the structural, optical and magnetic behaviour of chemically derived manganese ferrite nanoparticles | Materials Research Express | 2018, vol.no 5, pp. 1-11 | 2053-1591 |
| 3. | Magnetic and electrical analysis of chemically derived Cu _{0.5} Mn _{0.5} Al _{0.5} Fe _{1.5} O ₄ nanocrystallites | International journal of research and analytical reviews | 2018, vol.5 pp .463-468 | 2348-1269 |
| 4. | Systematic investigations on the effect of divalent metal; ions (Mg ²⁺ and Zn ²⁺) substitution on nanocrystalline manganese ferrites | Journal of nano and electronic physics | 2019,Vol.1, pp.1-5 | 2077-6772 |

| | | | | |
|----|---|-----------------------------|--------------------------|-----------|
| 5. | Synthesis and Characterization of Li+ ions substituted MnFe ₂ O ₄ nanoparticles | European Chemistal Bulletin | 2023, Vol.12, pp.834-847 | 2063-5346 |
|----|---|-----------------------------|--------------------------|-----------|

LIST OF PAPERS PRESENTED IN CONFERENCES/SEMINARS/WORKSHOPS

| S.no | Name | Organising Institution | International/ National/ State level | Date |
|------|---|---|--|----------------------------------|
| 1. | Crystal Growth and Nanoscience | Aditanar College of Arts and Science, Tiruchendur | Regional | 30th, 31st Aug and 1st Sept 2007 |
| 2. | Recent trends in Crystal growth, Thin films and Nanostructured materials | Aditanar College of Arts and Science, Tiruchendur | National | 5th and 6th Aug 2009 |
| 3. | Crystal Growth | Aditanar College of Arts and Science, Tiruchendur | National | 19th and 20th Jan 2012 |
| 4. | Modern Trends in Science and Communication | Dr.Sivanthi Aditanar College of Engineering, Tiruchendur | National | 7th May 2014 |
| 5. | Nanotechnology: The Fruition of Science | Nesamony Memorial college, Marthandam | International | 15-16 Feb., 2017. |
| 6. | Materials, emerging devices and energy efficient technologies | St.Xavier's Catholic College of Engineering, Nagercoil | International | 5-6th October, 2017. |
| 7. | Materials technology- synthesis, processing and applications | Sri.S.Ramasamy Naidu Memorial College, Sattur | International | 20,21 Feb 2018 |
| 8. | Society based research works in nanotechnology | Sri Parmakalyani College, Alwarkurichi | State level | 23, Feb 2018 |
| 9. | Emerging trends in condensed matter Physics nad modelling of new material in industrial world | P.A.College of Engineering and Technology, Pollachi | National | 5,6 April 2018 |
| 10. | Energy materials | Manonmaniam Sundaranar University, Tirunelveli | National | 28,29 June 2018 |
| 11. | Technologically advanced materials | Muslim Arts College, Thioruvithancode | International | 29, Sept 2018 |
| 12. | Advanced materials | Department of Physics, Aditanar College of Arts and Science, Tiruchendur | International | 26, August 2019 |
| 13. | Recent developments in the applications of bioinorganic chemistry | Department of PG Chemistry, Aditanar College of Arts and Science, Tiruchendur | State level | 19, September 2019 |
| 14. | Advanced research in materials science | Kamaraj College, Thoothukudi | National | 22 and 23, February 2021 |

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| 15. | Advanced materials for emerging technologies | Sri Ramakrishna mission College of arts and Science, Coimbatore | International | 26 th and 27 th April 2021 |
| 16. | Materials Science | Department of Physics, Aditanar College of Arts and Science, Tiruchendur | state level | 24, February 2023 |
| 17. | Technologically important materials for device fabrication | Department of Physics, Aditanar College of Arts and Science, Tiruchendur | International | 1, September 2023 |