

CURRICULUM VITAE

Dr. C. SAI VANDANA

Lecturer

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EDUCATIONAL QUALIFICATIONS

COURSE	DURATION	INSTITUTION	PERCENTAGE
Ph.D.	2014-2019	SRI VENKATESWARA UNIVERSITY, TIRUPATHI	67
FIVE YEAR INTEGRATED M.Sc. IN PHYSICS	2007-2012	SRI VENKATESWARA UNIVERSITY, TIRUPATHI	82.37
INTERMEDIATE	2004-2006	SRI CHAITHANYA JUNIOR COLLEGE, TIRUPATHI	92.9
SSC	2004	GSM HIGH SCHOOL, NANDALUR	81.3

ACHIEVEMENTS

- Successfully cleared written and oral tests and appointed as Degree College Lecturer in Physics through Andhra Pradesh Public Service Commission (APPSC). First women candidate in the merit list.
- Selected as BSR-RFSMS fellow and received BSR Merit Scholarship while pursuing my Ph.D.
- Cleared Graduate Aptitude Test for Engineering (GATE)
 - GATE-2013 All India Rank – 362
 - GATE-2014 All India Rank – 961
- Cleared AP State Eligibility Test (APSET-2012)
- Selected for Seventh Science Conclave (2014) held in IIIT, Allahabad
- S.V. University 1st ranker in post-graduation (2012)
- Secured 1st rank in entrance examination of Five-Year Integrated M.Sc. Physics course, S.V.University, Tirupati (2007)

RESEARCH EXPERIENCE

- Prepared glass samples using melt quenching technique and analyzed their optical properties
- Synthesized, characterized and analyzed the behaviour of a phosphor for LED display applications
- Synthesized, characterized and analyzed magnetic behaviour of different multiferroic materials at room temperature.

RESEARCH SKILLS

- Can handle
 - i. PSM 1700 Impedance Analyzer
 - ii. UV-Visible Spectrophotometer

TEACHING EXPERIENCE

- Handling classwork and lab sessions for UG students from June 27, 2018 till today.
- Handled and evaluated Community Service Projects of UG first year students, 2022
- Taught D.D.E classes for M.Sc. Physics (final) students in S.V University, Tirupati
- Facilitated two hour-long weekly interactive tutorials with M.Sc. (Previous) students
- Led inquiry-based weekly laboratory for M.Sc. (Previous) students
- Conducted lab sessions, problem-solving and discussion sessions every day for M.Sc. (Final) students of Applied Spectroscopy specialization

WORK EXPERIENCE

- Acting as Incharge of Physics Department at Government Degree College for Women, Srikalahasti from October 04, 2021.
- Acting as BOS member of Physics for Sri Venkateswara University and Government Degree College, Nagari (Autonomous).
- Acting as Convener for the committees UGC, MOUs/Collaborations, ICT
- Acted as Academic Coordinator, Convener for Biometric Attendance, OTLP, Face Recognition System and member of various committees like IQAC, Women Empowerment, Red Ribbon Club, Student Support and Progression (NAAC Criterion-V), MANA TV.
- Attended as Special Sitting Observer for Three Year Degree Examinations from the 2019 to 2020.
- Attending Spot Valuation of Three-Year Degree Examination answer scripts from the year 2020 till today.

RESEARCH PUBLICATIONS

1. Room temperature ferromagnetism and enhanced band gap values in N co-doped Cr: CdS nanoparticles for Spintronic applications
Surya Sekhar Reddy M, **Sai Vandana C**, Kishore Kumar Y B
Journal of Superconductivity and Novel Magnetism 36, 1243-1248, 2023
<https://doi.org/10.1007/s10948-023-06565-w>
2. Tailoring the Inherent Magnetism of N: CdS Nanoparticles with Co²⁺ Doping
Surya Sekhar Reddy M, **Sai Vandana C**, Kishore Kumar Y B
Indian Journal of Science and Technology 16(27), 2024-2034, 2023
<https://doi.org/10.17485/IJST/v16i27.596>
3. Structural, magnetic and dielectric properties of cobalt doped GdFeO₃ orthoferrites
C Sai Vandana and B Hemalatha Rudramadevi
Materials Research Express, 6, 126126, 2019
<https://doi.org/10.1088/2053-1591/ab768f>
4. Effect of Cu²⁺ substitution on the structural, magnetic and electrical properties of gadolinium orthoferrite
C Sai Vandana and B Hemalatha Rudramadevi
Materials Research Express, 5, 046101, 2018
<https://doi.org/10.1088/2053-1591/aab7a8>
5. The effect of Mg²⁺ concentration on structural and luminescent properties of CaTiO₃: Eu³⁺ phosphor
C. Sai Vandana and B. H. Rudramadevi
Ferroelectrics, 524, 168–180, 2018
<https://doi.org/10.1080/00150193.2018.1432827>
6. Rietveld Study of Cu Doped Gadolinium Orthoferrites
C Sai Vandana and B Hemalatha Rudramadevi
International Journal for Research in Applied Science & Engineering Technology (IJRASET)
Vol.5 Issue XI, 1999-2004, 2017
<https://doi.org/10.22214/IJRASET.2017.11288>
7. Structural and Dielectric Properties of Sm³⁺ doped SrTiO₃ Ceramic Powders
J. Guravamma, **C. Sai Vandana** and B. H. Rudramadevi
Science Spectrum, 2 (1), 43-48, 2017
https://drive.google.com/file/d/10K6C86xfSsdvOOLeSGOr02QxAI_zSpdb/view?usp=drive_link
8. Structural, Emission & Dielectric Properties of Sm³⁺: SrTiO₃ Ceramic Powders
J. Guravamma, **C. Sai Vandana** & B. Hemalatha Rudramadevi
International Advanced Research Journal in Science, Engineering and Technology (IARJSET),
Vol. 4, Issue 9, 15-20, 2017
<https://doi.org/10.17148/IARJSET.2017.4903>

WEBINARS ORGANIZED

- Organized One Day International Webinar on “Recent Advances in Nanotechnology” on April 03, 2024.
- Organized Two Day International Webinar on "Recent Advances in Materials Science and Engineering" (RAMSE-2020) from September 23, 2020 to September 24, 2020
- Organized One Day National Webinar on “Dr. Dilip Bhawalkar: His Role and guidance for developments of optics and laser technology in India” on October 16, 2020.

CONFERENCES AND WORKSHOPS ATTENDED

Conference Proceedings:

1. **C Sai Vandana**, J Guravamma and B Hemalatha Rudramadevi, Synthesis and dielectric properties of Zn doped GdFeO₃ ceramics, IOP Conf. Series: Materials Science and Engineering 149 (2016) 012180
2. **C.Sai Vandana** and B. Hemalatha Rudramadevi, Enhanced Luminescence in Mg²⁺ codoped CaTiO₃:Eu³⁺ phosphor prepared by Solid State Reaction, AIP Conference Proceedings 1731 (2016), 140033-1–140033-3

C) Paper Presentation in Conferences

1. Synthesis and Characterization of Chromium-Doped Nitrogen-Modified CdS Composite Quantum Dots for Optoelectronic Applications
Surya Sekhar Reddy M, Kishore Kumar Y B, **Sai Vandana C**
International Conference on Science, Technology and Applications of Rare Earths ICSTAR Sri Venkateswara University, Tirupati, April 21-23, 2025
2. The effect of the ratio of thiourea to Cd²⁺ on the properties of Cr_{0.04}Cd_{0.96}S Nanoparticles
Surya Sekhar Reddy M, **Sai Vandana C**, Kishore Kumar YB
International Conference on Materials Science (ICMS – 2022) (virtual) organized by Jawaharlal Nehru Technological University, Anantapur during April 11 - 13, 2022.
3. Synthesis and dielectric properties of Zn doped GdFeO₃ ceramics
C Sai Vandana, J Guravamma and B Hemalatha Rudramadevi
International Conference on Advanced Materials and Manufacturing Applications (IConAMMA) held during July 14-16, 2016 at Amritha Viswa Vidyapeetham University, Bangalore
4. Synthesis and Dielectric Properties of Cu doped Gadolinium Orthoferrite
C.Sai Vandana and B. Hemalatha Rudramadevi
National Conference on Advanced Functional Materials (NCAFM-2016) held during March 23-24, 2016 at Sri Venkateswara University, Tirupati
5. Structural, Morphological and Dielectric Studies of GdFeO₃ Ceramics prepared by Solid State Reaction Method
C.Sai Vandana, J.Guravamma and B.H.Rudramadevi
First A.P. Science Congress held during January 27-29, 2016 at Sri Venkateswara University, Tirupati

6. Structural and Room Temperature Magnetic Behaviour of Cu doped GdFeO₃ Ceramics
C.Sai Vandana and B. Hemalatha Rudramadevi
104th Indian Science Congress-2017 held during January 3-7, 2017 at Sri Venkateswara University, Tirupati
7. Low Temperature Magnetic Studies of Zn Doped Gadolinium Orthoferrite
C.Sai Vandana, P. Ankoji and B.H.Rudramadevi
National Conference on Novel Materials and Technologies (NCNMAT-2017) held during September 16-17, 2017 at Sri Venkateswara University, Tirupati
8. Enhanced Luminescence in Mg²⁺ codoped CaTiO₃:Eu³⁺ phosphor prepared by Solid State Reaction
C.Sai Vandana and B. Hemalatha Rudramadevi
60th DAE Solid State Physics Symposium (DAE SSPTS 2015) held during December 21-25, 2015 at Amity University, Noida, Uttar Pradesh
9. Optical and Thermal Properties of Eu³⁺:BaO–ZnO–LiF–B₂O₃ Glasses
C Sai Vandana, J Guravamma and B.H.Rudramadevi
International Conference on Luminescence and its Applications (ICLA-2015) held during February 9-12, 2015 at PES University, Bangalore

Workshops attended

1. Acted as an Invited Speaker at One day Workshop on “Emerging Tech Frontiers: AI, Deep Tech and Quantum Technologies” organized by Department of Computer Science/ Computer Applications, Govt. Degree College for Women, Srikalahasti on July 01, 2025.
2. Workshop on Materials Characterization Techniques [Problem Solving Approach] held at SRM University, Ramapuram Campus, Chennai during September 2-3, 2016
3. Short Term Programme on Nano Materials: Processing and Characterization held at National Institute of Technology, Tiruchirappalli during November 7-8, 2014