

Staff Profile

Name: Dr. R.SIVASANKARI

Position: GUEST LECTURER

Department: PHYSICS

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Office Location: NAMAKKAL

Education:

- Degree: B.Sc

- University: BHARATHIAR UNIVERSITY, COIMBATORE

- Year of Graduation: APRIL 2004

- Degree: M.Sc

- University: BHARATHIAR UNIVERSITY, COIMBATORE

- Year of Graduation: MAY 2006

- Degree: M.Phil

- University: BHARATHIAR UNIVERSITY, COIMBATORE

- Year of Graduation: MARCH 2008

- Degree: B.Ed

-University: TAMILNADU TEACHERS EDUCATION UNIVERSITY, CHENNAI

- Year of Graduation: JUNE 2009

Degree: Ph.D

- University: BHARATHIAR UNIVERSITY, COIMBATORE

- Year of Graduation: March 2023



Professional Experience

➤ JUNE 2009 – NOV'2009

ASSISTANT PROFESSOR IN PHYSICS - SELVAM ARTS & SCIENCE COLLEGE,
NAMAKKAL

➤ JAN'2013 - TILL DATE

GUEST LECTURER IN PHYSICS - N.K.R. GOVT. ARTS COLLEGE FOR
WOMEN, NAMAKKAL

Research Interests Brief description of research areas and interests.

NANOTECHNOLOGY

Nanotechnology represents a revolutionary path for technological development that concerns the management of material at the nanometer scale (one billion times smaller than a meter). Nanotechnology factually means any technology on the nanoscale that has numerous applications in the real world. Nanotechnology literally encompasses the fabrication and application of chemical, physical, and biological systems at scales ranging from individual molecules or atoms to submicron dimensions, and also the integration of these resulting nanomaterials into larger systems. It has the potential to change our perspectives and expectations and provide us with the capability to resolve global issues. The discovery and use of carbon nanomaterials has allowed the introduction of many new areas of technology in nanomedicine, biosensors, and bioelectronics. In recent years, nanotechnology has emerged as a multidisciplinary field, in which gaining a fundamental understanding of the electrical, optical, magnetic, and mechanical properties of nanostructures promises to deliver the next generation of functional materials with wide-ranging applications.

Recently, the science and technology have achieved tremendous and significant goals in the field of materials science, especially in metal oxide nanomaterials. Metal oxides are probably the most diverse and multifunctional materials, whose properties cover almost all the aspects of solid-state physics. Owing to their significant characteristic properties, metal oxides and their nano dimensional forms have found important applications in ferri-magnetism, anti-ferromagnetism and ferromagnetism, ferroelectricity, and ferro elasticity piezoelectricity, superconductivity, magneto resistivity, photonics; in chemical science just as separation, catalysis; environmental engineering, etc.

Publications

- ❖ **“*International Journal of Emerging Trends in Science and Technology*”, Vol. 4, Issue 9, Page Nos. 6103-6109 and year of Publication 2017 Published by IJETST , “*Characterization of Nanocrystalline Nickel Doped Titanium - Dioxide, Synthesized by Co Precipitation Method*” IC Value: 76.89 (Index Copernicus) Impact Factor: 4.219.**

DOI: <https://dx.doi.org/10.18535/ijetst/v4i9.39>

- ❖ **“*Materials Technology*”, **Advanced Performance Materials**, Vol. 37, Issue 5, Page Nos. 316-323 and Year of Publication 2020 Published by **Taylor & Francis**, “Evaluation of physical properties and bactericidal efficacy of chemically developed undoped and Mn (5, 10, 15wt%) doped ZnO nanoparticles”.**

DOI : <https://doi.org/10.1080/10667857.2020.1837542>

Awards and Honors

NIL

Courses Taught

B.Sc., PHYSICS

M.Sc., PHYSICS

Professional Memberships

NIL

Projects and Grants

NIL

Contact Information

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