

Staff Profile



Name: Dr. S. AKILANDESWARI

Position: GUEST LECTURER

Department: PHYSICS

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Office Location: NAMAKKAL

Education

- Degree: Ph. D.,

- University: PERIYAR UNIVERSITY, SALEM - 11

- Year of Graduation: 2022

- Degree: M. Phil.,

- University: PERIYAR UNIVERSITY, SALEM - 11

- Year of Graduation: 2007

- Degree: M. Sc.,

- University: PERIYAR UNIVERSITY, SALEM - 11

- Year of Graduation: 2005

- Degree: B. Sc.,

- University: PERIYAR UNIVERSITY, SALEM - 11

- Year of Graduation: 2001

Professional Experience

JUNE 2005 - MAR'2009

GUEST LECTURER IN PHYSICS - ARIGNAR ANNA GOVT. ARTS
COLLEGE, NAMAKKAL

JUNE 2009 - MAR'2011

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

NOV'2012 - TILL DATE

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

Research Interests

CRYSTAL GROWTH

Publications

1. "Fabrication, Characterization and Optical Investigation of Semi-organic Nonlinear Alanine Hippurate Single Crystals"

Published in **Journal of Cluster Science** at 2020

Link of Journal : <https://doi.org/10.1007/s10876-020-01825-4>

2. "Spectroscopic evaluation of Alanine Adipate nonlinear optical materials growth dynamics: Mechanical and thermal optimization"

Published in **Journal of Molecular Structure** at 2021

Link of Journal : <https://doi.org/10.1016/j.molstruc.2021.130577>

3. "Synthesis, Growth and Characterization of Nonlinear Optical Single Crystal of Serine Succinate"

Published in "**Journal of Minerals and Materials Characterization and Engineering**"
at 2021

Link of Journal : <https://doi.org/10.4236/jmmce.2021.91006>

4. "Synthesis, spectroscopic, optical, thermal and mechanical characterization of nonlinear proline oxalate single-crystals"

Published in **Optical and Quantum Electronics** at 2022

Link of Journal : DOI:10.1007/s11082-022-04241-2

RESEARCH PAPER PRESENTED IN CONFERENCES /

SEMINARS WORKSHOPS

1. Presented a paper entitled "Synthesis, Growth and Characterization of Nonlinear Optical Material: L-Proline Potassium Chloride" at the National Conference on Recent Advances in Physics (NCRAP-2017), organized by the Department of Physics, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal on 20.09.2017.

2. Presented a paper entitled Effect of Perchloric acid on Growth and Physical Characteristics of Potassium Dihydrogen Phosphate Nonlinear Optical Crystals in the National Symposium on Recent Advances in Functional and Exotic Materials, 14th -16th, February-2018, organized MRSI Trichy Chapter and Centre for High-Pressure Research, Bharathidasan University, Tiruchirappalli.

3. Presented a paper entitled "Growth, optical and thermal characterization of valine oxalate and cadmium chloride nonlinear optical material" at the International Conference on Emerging Materials and Modeling (ICEMM - 2019) organized by K. S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode, Namakkal from 07.01.2019 to 09.01.2019.

4. Presented a paper entitled "Optical and structural characteristics of calcium tartrate doped adipic acid crystals" at the International Conference in Materials Research (ICAMR -2019) organized by Sacred Heart College (Autonomous), Tirupattur, Vellore on 12.02.2019.

5. Presented a paper entitled, Mechanical and fluorescence characterization of histidine and calcium chloride nonlinear optical material. International Conference on “Functional Materials for Bio-Energy, Green Technology and Environmental Sustainability” (FMGES-2019), 8th, August-2019, Trinity College for Women, Namakkal

6. Presented a paper entitled, Mechanical, Thermal and fluorescence characterization of valine and mercuric chloride nonlinear optical material National Seminar on Emerging Technologies in Materials Science (NSETMS-2020). Namakkal Kavignar Ramalingam Government Arts College for Women, 22 February-2020, Namakkal.

7. Presented a paper entitled “Spectroscopic, Optical, Thermal and Mechanical properties of a novel Nonlinear Optical Single Crystal of Zinc Serine Succinate” in the International Summit and Conference on Material Science, Nanotechnology and Bio Manufacturing Innovative Trends in Multidisciplinary Research (ISCMNB-2021), organized by IKTBN Sepang, Selangor, Malaysia from 25.6.2021 to 28.06.2021.

Awards and Honors

Won best short invited lecturer award for a paper on the title of “**Spectroscopic, Optical, Thermal and Mechanical properties of a novel Nonlinear Optical Single Crystal of Zinc Serine Succinate**” in the International Summit and Conference on Material Science, Nanotechnology and Bio Manufacturing Innovative Trends in Multidisciplinary Research (ISCMNB-2021), organized by IKTBN Sepang, Selangor, Malaysia from 25.6.2021 to 28.06.2021.

Courses Taught

B.Sc., PHYSICS

M.Sc., PHYSICS

Professional Memberships

NIL

Projects and Grants

NIL

Contact Information

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