

Staff Profile



Name: Dr. L. BHUVANESWARI

Position: GUEST LECTURER

Department: PHYSICS

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Office Location: NAMAKKAL

Education

Degree: M.Sc.,

- **University:** PERIYAR UNIVERSITY, SALEM-11

- **Year of Graduation:** 2007

- **Degree:** M.Phil.,

- **University:** BHARATHIDASAN UNIVERSITY, THIRUCHIRAPALLI-24

- **Year of Graduation:** 2009

- **Degree:** Ph.D

- **University:** MANONMANIAM SUNDARANAR UNIVERSITY,
TIRUNELVELI -12

- **Year of Graduation:** 2018

Professional Experience

SEP'2009 - MAR'2011

GUEST LECTURER IN PHYSICS – GOVERNMENT ARTS COLLEGE ,
DHARMAPURI.

JUNE'2011- TILL DATE

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

Research Interests

Vibrational Spectroscopy It is the branch of spectroscopy which deals with the infrared region of the electromagnetic spectrum, that is light with a longer wavelength and lower frequency than visible light.

Based on the relationship with the visible spectra IR is divided into Near, Mid and Far-Infrared.

- Near Infrared 14000-4000 cm^{-1}
- Mid Infrared 4000-400 cm^{-1}
- Far Infrared 400-10 cm^{-1}

These spectra originate from the transitions included between the induced between the vibrational energy levels of a molecule on the absorption of radiation belonging to the infrared region. A molecule can vibrate in many ways and each way is called vibrational mode.

Publications

1. Vibrational Spectroscopic and Molecular docking studies of 5-Chloro-2-Hydroxy-3-Nitropyridine, L. Bhuvaneshwari, U. Sankar, S. Meenakshi Sundar, Elixir Comp. Phys. 104 (2017) 45799-45807.
2. Analyses of Molecular structure, Vibrational Spectra, NBO, Mulliken Charge and NLO studies of Penta Chloro Nitro Benzene, L. Bhuvaneshwari, U. Sankar, S. Meenakshi Sundar, Elixir Comp. Phys. 104 (2017) 45408-45813.
3. Vibrational Assignments, Homo-Lumo, NLO, NBO, MEP, Mulliken's Charge and Thermodynamical Parameter Analyses of M-Xylene-Alpha, Alpha-Diol, L. Bhuvaneshwari, U. Sankar, S. Meenakshi Sundar, International Journal of Scientific Research in Science, Engg. & Tech. 3 (2017) 300- 315.
4. Structural study and spectroscopic investigations of N[3,5-Bis(trifluoromethyl)phenyl]thiourea L. Bhuvaneshwari, U. Sankar, S. Meenakshi Sundar, K. Parimala, International Journal of Scientific Research in Science, Engg. & Tech. 3 (2017) 305- 311.

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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