



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Ms V.Sasikala
Designation : Assistant Professor
Department : Physics
Qualification : M.Sc., M.Phil.,
Experience : Teaching: 18 Research:
Area of Specialization(s) : Spectroscopy
Email (Official ID) : sasikala@sigc.edu
Aadhar No : 7060 3881 9467

Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
M.Phil	Physics	Urumu Dhanalakshmi College/Bharathidasan	2006
M.Sc	Physics	Periyar EVR college/ Bharathidasan	2004
B.Sc	Physics	Shrimati Indira Gandhi College/ Bharathidasan	2002

International

1. Anti- inflammatory and antioxidant activity, toxicity prediction, computational investigation, and molecular docking studies of 2- thiophen carbonitrile Journal of King Saud University - Science in Vol.36 (2024) 103526 .
2. Computational investigation and antimicrobial activity prediction of potential antiviral drug” in Journal of Molecular Structure Vol.1323 (2025) 140711.

Presentations in Conference

1. International Conference on “Recent Trends in Material Science” organized by National College ,Trichy during 19th - 21st May 2022.
2. International Conference on “DFT Computational studies and Molecular Docking of the anticancer agent 2-Thiophene Carbonitrile” organized by PKR College for women,Gobichettipalayam and its abstract published in ISBN on 18th August 2022.
3. International Conference on “Molecular Structure and vibrational spectral studies on 2-Thiophene Carbonitrile” organized by St.Joseph’s College ,Trichy during 29th-31st August 2022.
4. International Conference on “FT-IR,FT-Raman Spectral Analysis and NBO analysis of 2-[Trimethyl(silyl)ethynyl] Thiophene using DFT Analysis organized by SIGC,Trichy and its abstract published in ISBN on 14th September 2022.
5. International Conference on “Spectroscopic investigation on thermodynamic parameters,HOMO and LUMO analysis on the structure 3-[Trimethyl(silyl)ethynyl] Thiophene organized by Srinivasan College of Arts and Science , Perambalur during 3rd and 4th November 2022.
6. International Conference on “Experimental and DFT studies on the molecular structure of 3-[Trimethyl(silyl)ethynyl]Thiophene conducted by Jamal Mohammad College along with ISPA on 10th January 2023.
7. International Conference on “Computational Evaluation on vibrational interactions,AIM,Hirshfield,molecular docking and Pharmacokinetic studies by Swiss Adme Of Ethyl 2-amino-4,5,6,7-tetrahydrobenzo{b}thiophene-3-carboxylate” Organised by Shrimati Indira Gandhi College,Trichy on 20th September 2023.
8. International Conference on “Spectral,DFT,Topological studies,molecular docking and antibacterial activity studies of Ethyl 2-amino-4,5,6,7-tetrahydrobenzo{b}thiophene-3-carboxylate” conducted by Thanthi Hans Roovers College ,Perambalur during 4th and 5th October 2023.
9. International Conference on “Synthesis ,Spectral characterization and Topological analysis combined with molecular docking studies of (E)-4-((2- fluorobenzylidene)amino)-N-(thiazol-2-yl)benzenesulfonamide” organized by Arignar Anna Government Arts College, Musiri, during 8th and 9th January 2025.

Participation in Conference

International

Participated International Conference on “Recent Trends in Material Science” organized by National College ,Trichy during 19-21 May 2022.

Participation in Workshop

1. Participated National level workshop on Molecular Docking &ADMET computation with live Hands on Training organized by CMR institute of Technology ,Bengaluru on 09.02.2023.
2. Participated the “Workshop on Quantum Mechanical calculations through Computational Techniques” organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai – 600089, Tamil Nadu on 27th July, 2024.
3. Participated in an Online Workshop on Molecular Modelling of Nanomaterials and Biomolecules organized by PG & Research Department of Physics,Holy Cross College (Autonomous), Tiruchirappalli during 5th to 9th August 2024.

Participation in Faculty Development Programme

1. Participated five day online FDP on “Theoretical &Experimental physics” organized by School of Advanced Sciences(SAS) and G.T.S. Arts College,Dindigul on from 29.05.2023 to 02.06. 2023.
2. Participated Two Days National Conference on “Recent Trends in Material Science and its Applications”.
3. NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC), Bharathidasan University, Tiruchirappalli,Tamil nadu from 08.04.2024 to 17.04.2024 and obtained the Grade ‘A’.

Patents

- 1.Designed a patent on “Nanomaterial synthesis and purification device” on 18thFebruary 2025.
- 2.Nanoparticle infused textile for antimicrobial and odor control properties.