Dr. S. MAHALAKSHMI

Plot No. 1A. 'Subhiksham Akhilandeswari Nagar, Behind Park Town 6th street, P & T Nagar extension, Madurai- 625 017.



Educational Qualification

Mobile No. 9443474949

Degree	College	Regular/	Year of	Percentage
	_	Part time	Passing	_
B.Sc.	S.I.E.S College of Science, Arts and Commerce, Mumbai.	Regular	1999	78.87
M.Sc.	Lady Doak college, Madurai	Regular	2006	83.00
M.Phil.	Lady Doak college, Madurai	Regular	2008	84.00
CSIR	Passed CSIR-NET (Lectureship) examination held in June 2011			
NET	(Rank: 37/970 in the subject CHEMICAL SCIENCES)			
Ph.D	Department of Chemistry, Lady Doak college, Madurai.	Part time	and Properties	Characterization of polyaniline unocomposites for supercapacitor

Teaching Experience: 13 years

• Working in the Department of Chemistry, Lady Doak College, Madurai from August, 2008 till date *under self-financed stream*

Research Experience: 11 years (2011-2022)

Research Interests: Design and development of novel nanocomposites for sensor and supercapacitor applications

Publications

• S. Mahalakshmi and V. Sridevi, Tailoring the synergy between polyaniline and reduced graphene oxide using organic acid dopant, pTSA for enhanced performance as

- electrode material for supercapacitor applications, Journal of Physics and Chemistry of Solids, 2022, 165, 110673 [Impact Factor: 3.995]
- S. Mahalakshmi and V. Sridevi, In Situ Electrodeposited Gold Nanoparticles on Polyaniline-Modified Electrode Surface for the Detection of Dopamine in Presence of Ascorbic Acid and Uric Acid, Electrocatalysis, 2021, 12, 415-435 [Impact Factor: 2.743]
- S. Mahalakshmi and V. Sridevi, Conducting, crystalline and electroactive polyaniline-Au nanocomposites through combined acid and oxidative doping pathways for biosensing applications: Detection of dopamine, Materials Chemistry and Physics, 2019, 235, 121728-121741 [Impact Factor: 4.094]

Papers Presented in National/International Conferences

- Presented a paper on "Enhanced thermal stability and conductivity of pTSA doped polyaniline/reduced graphene oxide/Au ternary nanocomposite through a one-pot synthesis approach" in 6th International Conference on Recent Advances in Material Chemistry (ICRAMC 2022) organized by the Department of Chemistry, SRM Institute of Science and Technology in association with Alternate Energies and Atomic Energy Commission (CEA) & Universite Gustave Eiffel, France, during 17-19 February, 2022
- Presented a paper on "Tuning the electrical conductivity of polyaniline/gold nanocomposites by altering the charge-transfer mechanism in the polymer chain" in the National Conference on Emerging Trends in Smart Materials NCETSM'-2018 organized by the DEPARTMENT OF CHEMISTRY, SSN College of Engineering, Kalavakkam, Chennai on 19th January, 2018
- Presented a paper on "Chemical and Electrochemical modification of GCE/PANI surface using metallic Au towards dopamine detection" in the National Conference on Recent advances in the applications of macromolecular materials RAAMM -2017 organized by the DEPARTMENT OF CHEMISTRY, THE GANDHIGRAM RURAL INSTITUTE DEEMED to be UNIVERSITY on 2nd & 3rd March, 2017
- Presented a paper on "Selective determination of Dopamine in presence of Uric acid using nano-Gold clusters embedded PANI modified electrode "in the International

- Conference on Electrochemical Science & technology (ICONEST-2014) at Indian Institute of Science, Bengaluru on 7-9th July, 2014
- Presented a paper on "Photophysics of Curcumin" in the 10th State Level Technical Seminar in Physical Sciences for PG and M. Phil students organized by the Department of Physics, Meenakshi College for Women, Chennai and Indian Spectro Physics Association on 15-16 February, 2008
- Presented a paper on "LIGHT POLLUTION" in the national seminar on New Perspectives on Eco-friendly chemical Technology organized by the Department of Chemistry, V. V. Vanniaperumal College for Women, Virudhunagar

Project Grants

 Co-Investigator of Institutional Project on "Development of Bog-Standard Products for College Community" 2021-2022 funded by Lady Doak College, Madurai

Invited talks as Resource Person

- Webinar on "Explore, Create and Analyse Chemical Data using Cheminformatics tools" on 10-06-2020 via zoom platform
- Workshop on "Cheminformatics" for Faculty members of the Department of Chemistry, SFR College, Sivakasi on 11.09.2014
- "Usage of Schrodinger software for chemistry applications" at School of Science and Humanities, Karunya University, Coimbatore on 26-09-2012 and 27-09-2012

Conference organized

- Workshop on "Environmental Risk Assessment", Centre for Environmental Studies, from 21st to 23rd July, 2016 at Lady Doak College, Madurai
- Academy-Industry interaction meet 2019, Department of Chemistry, on 13th
 December, 2019 at Lady Doak College, Madurai

Seminars, Conferences, Workshops attended

In the field of Chemistry

- International Webinar on Chemistry towards Sustainable Development in Health, Energy and Environment under Prof. Evelyn Rhine Endowment Lecture Series organized by the Department of Chemistry, Lady Doak College, Madurai, on 15th March 2022
- National Seminar on Electrode-Electrolyte Interfaces, Prof. Evelyn Rhine Endowment Lecture Series organized by the Department of Chemistry, Lady Doak College, Madurai, on 26th March 2021

- Prof. Evelyn Rhine Lecture Series "Academy Industry Interaction meet- 2019" organized by the Department of Chemistry, Lady Doak College, Madurai, on 13th December, 2019
- State Level Lecture Programme on "Emerging Novel and Functional Materials" Prof.
 Evelyn Rhine Endowment Lecture Series organized by the Department of Chemistry,
 Lady Doak College, Madurai, on 22nd February 2019
- National Level Advanced Lecture Series Programme on "Organic Spectroscopy, Stereochemistry and Reaction Mechanism", Prof. Evelyn Rhine Endowment Lecture Series organized by the Department of Chemistry, Lady Doak College, Madurai, on 21st February 2018
- Two days' workshop on "Impedance Spectroscopy and its application", Materials Research Centre, Subramanian Thangathai Educational Trust, Coimbatore on Jan 22-24, 2016
- Second National Conference on Advanced Functional Materials and Applications –
 2013 organized by Department of Chemistry & Centre for Nanotechnology,
 Kalasalingam University on 22nd-23rd March 2013.
- Prof. Evelyn Rhine Lecture Series "Academy Industry Interaction meet- 2013" organized by the Department of Chemistry, Lady Doak College, Madurai, on 23rd February, 2013.
- Two days' workshop on "Nanosurf AFM/STM" organized by Sinsil International in collaboration with Nanosurf AG on January 31st and February 1st 2013, at Sinsil International, Bangalore.
- Workshop on "Data Handling" organized by Lady Doak College, Madurai from January 16-19, 2013.
- One day workshop on "Drinking water quality assessment" organized by the Department of Chemistry, Yadava College, Madurai on 10th February, 2012
- Prof. Evelyn Rhine Endowment Lecture Series "Science Promotion and Research Kindling-SPARK 2012" organized by the Department of Chemistry, Lady Doak College, Madurai, on 1st February 2012
- Prof. Evelyn Rhine Lecture Series 2011 "Introduction to Organic Synthesis", organized by the Department of Chemistry, Lady Doak College, Madurai, on 15th March,2011.
- A One-day workshop on "Gaussian 03" organized by the Department of Chemistry, Lady Doak College, Madurai, on 10th February, 2011.

- One day International Conference on "**Drug Design and Development**" organized by Nadar Saraswathi College of Arts & Science, Theni on 21 st January, 2011.
- One day seminar on "Drug Design and Discovery" organized by the Department of Chemistry, Lady Doak College, Madurai
- Two days seminar on "Quantum Mechanics" organized by the Department of Chemistry, Lady Doak College, Madurai
- **National Conference** on "**Computational Applications in Chemistry**" organized by the Department of Chemistry, Vinayaka Mission's Kirupananda Variyar Engineering College, Salem on 4th and 5th February, 2010.
- Asian Conference on Recent Advances in Polymer Science organized by the Department of Chemistry, SASTRA University, Thanjavur on 22nd and 23rd January, 2010.
- Prof. Evelyn Rhine Lecture Series 2010 "Recent Advances in Spectroscopy: Theory, Instrumentation and applications", organized by the Department of Chemistry, Lady Doak College, Madurai, sponsored by the Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, National Academy of Sciences, India, Allahabad, on 18th and 19th January, 2010
- One day workshop on "Nuclear chemistry" organized by Thiagarajar College,
 Madurai, under the UGC innovative programme, held on 19th September, 2009
- Prof. Evelyn Rhine Lecture Series 2009 "Current Trends in Chemistry", organized by the Department of Chemistry, Lady Doak College, Madurai, on 25th March, 2009
- Workshop on "Cheminformatics" organized by the Department of Chemistry, Lady Doak College, Madurai, on 29th and 30th September, 2008.
- Prof. Evelyn Rhine Lecture Series on Current Trends in Chemistry organized by Department of Chemistry, Lady Doak College, Madurai on 19th February, 2008
- A state level seminar on "Physical Sciences for PG and M.Phil. students" organized by the department of Physics, Meenakshi College for Women, Chennai, in association with Indian Spectrophysics Association on 15-16 February, 2008
- Seminar on "Recent Trends in Chemistry" organized by the Department of Chemistry, Jayaraj Annapackiam College for Women, Periyakulam on 9th and 10th August, 2007.
- Prof. Evelyn Rhine Lecture Series 2005 "Recent Trends in Chemistry", organized by the Department of Chemistry, Lady Doak College, Madurai, on 24th February, 2005.

Others

- Three days virtual training programme on Psychosocial care during Covid-19 held from 6th to 8th May 2020 organized by the National Service Scheme, Lady Doak College, Madurai in collaboration with Madurai Kamaraj University and M. S. Chellamuthu Trust and Research Foundation, Madurai
- UBCHEA sponsored training Programme on "Environment Impact Assessment from 9th to 12th July, 2014, organized by the Centre for Environmental Studies, Lady Doak college, Madurai.
- Two-day UBCHEA sponsored programme on "Enriching Environmental Education:
 A National Consultation on Promoting Environmental Education in Higher Education
 Institutions" on February 7th and 8th, 2013 organized by the Centre for Environmental
 Studies, Lady Doak college, Madurai.
- Four days workshop on "Being an effective Teacher" organized by Lady Doak College, Madurai, between 7th to 10th June, 2011
- Workshop on "Curriculum designing on Peace Education" organized by the Centre for Religion and Inter-Faith Relations, Lady Doak College, Madurai, on 14th and 15th March, 2011
- Orientation program on "Peace Education", sponsored by UBCHEA, organized by the Centre for Religion and Inter-Faith Relations, Lady Doak College, Madurai, on 21st February, 2011
- Five days' workshop on "Being an effective Teacher" organized by Lady Doak College, Madurai, between 9th to 13th June, 2008
- "Gender Discriminatory Practices- Son Preference" organized by the Center for Women's Studies, Lady Doak College, Madurai, on 2nd and 3rd February 2005

Faculty Training programs attended

- Two days faculty development programme on "Nanomaterials and its applications" organized by the School of Chemistry and Biotechnology, SASTRA, Thanjavur on 21st and 22nd December, 2011
- A three days programme on "Faculty Training and Motivation" organized by CECRI, Karaikudi, from 28th March to 30th March, 2011
- Two days' training programme on "Water Management" organized by the Ministry of Water Resources, Central Ground Water Board at PWD campus, Madurai on 6th and 7th January, 2011

- A modular course on "Cheminformatics" at Institute of Bioinformatics and Applied Biotechnology, Bangalore from 2nd August to 12th August, 2010
- A three days training course on "Schrodinger software" organized by the Department of Biotechnology, Lady Doak college, Madurai from 28th July to 30th July, 2010.
- A one-day training programme on "Cheminformatics" organized by the Department of Chemistry, Lady Doak College, Madurai, on 26th March, 2010
- A one-day training programme on "Chemical Databases and Data Mining" organized by the Department of Chemistry, Lady Doak College, Madurai, on 12th March, 2010

Refresher Course attended

 All-India Refresher Course on Advanced Topics in Chemistry organized by the Department of Chemistry, Lady Doak College, Madurai, sponsored by the Indian Academy of Sciences, Bangalore from 7th to 20th November 2006.

Prizes Won and Awards Achieved

- Ms. Kalaneethy Christopher Prize for the best outgoing student in M. Phil.
 Chemistry
- First Prize for proficiency in Major theory in M.Sc. Chemistry.
- Second Prize for proficiency in Experimental Chemistry
- Personal Meritorious Achievement
- Certificate of Academic Merit with Distinction

Served the Institution as

- Boards of studies member (PG)
- exam committee member
- academic Certificate member
- a faculty member in Service-Learning Program
- an active member in Centre for Environmental Studies
- convener of Eco-Initiatives on Campus
- a member in NSS
- alumna coordinator for the department

S. Mahalakshmi, 04-04-2022