

Faculty Profile



Dr. S.Sharmila Queenthly , M.Sc., M.Phil.,M.Ed., Ph.D
Associate Professor – Chemistry

HIGHLIGHTS:

- Number of Journal Publications:11
- H-Index:3
- Project Funding Received: Nil
- Patents Published:8
- Patents Granted: Nil

PROFESSIONAL LINKS:

- Scopus ID: 55916933100
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=55916933100>
- Google Scholar ID: <https://scholar.google.com/citations?user=S3J-wzsAAAAJ&hl=en>
- Anna University Faculty ID: 2122614
- AICTE Faculty ID: : 1-25455714042
- Anna University Supervisor ID: Nil
- LinkedIn: <https://in.linkedin.com/in/dr-sharmila-queenthly-76927426>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 23.6years
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

Total: 11.7 years

- Deputy Head & Assistant Professor, Department of Biotechnology & Chemical Engineering. Waljat College of Applied Sciences, Muscat, Oman July 2017 to May 2019.
- Assistant Professor in Chemistry, Department of Biotechnology & Chemical Engineering. Waljat College of Applied Sciences, Muscat, Oman. February 2009 to June 2017
- Part-Time Lecturer in Chemistry, Department of Biotechnology. Waljat College of Applied Sciences, Muscat, Oman. September 2007 to January 2009.
- Joint Coordinator of Quality department at WCAS. Jan 2012 to May 2019.

AREA OF SPECIALIZATION:

- Coordination Chemistry
- Phyto Chemistry & Natural Products
- Environmental Science
- Analytical Chemistry
- Waste Management
- Nanomaterials

Ph.Ds AWARDED WITH DETAILS:Nil

S.No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time

Ph.Ds GUIDING:

- **Full Time Scholars: Nil**
- **Part Time Scholars :Nil**

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- WCAS Minor Research Project Fund, Duration 2016-2017, Funding: RO 600/- Position: Principal Investigator
- SERB-CRG (Rs. 67 Lakhs) - Under Second Phase Review, Position: Co-Principal Investigator
- CSIR-ASPIRE (Rs. 28 Lakhs) -Under Review, Position: Co-Principal Investigator
- TSCST (Rs. 4.5 Lakhs) - Under Review, Position: Co-Principal Investigator

PATENTS PUBLISHED/GRANTED:

- **S. Sharmila Queenthly**, M. Thirumavalavan, S. Kalpana, “Analysis of Herbal Composition for Inflammatory Disorders”, Indian patent (Accepted).
- S. Kalpana, **S. Sharmila Queenthly**, M. Thirumavalavan, “Method for Performing of Zinc Oxide Nanoparticles Using Lentinula Edodes Mushroom and Chitosan”, Indian patent (Accepted).
- M. Thirumavalavan, S. Kalpana, **S. Sharmila Queenthly**, “Nanotechnology Based Sensors for Monitoring Soil Quality and Maintaining Health of Agricultural Plants”, Indian patent (Accepted).
- M. Thirumavalavan, S. Kalpana, **S. Sharmila Queenthly**, M. Mettilda, S. Shanthi “Analysis of Bagasse Fibre Based Gel as Quasi Electrolyte for Aluminium-Air Battery”, Indian patent (Published).

- **S. Sharmila Queenthly**, M. Thirumavalavan, S. Kalpana, “Analysis of the Green Synthesis Interventions of Pharmaceutical Industries for Sustainable Development”, Indian patent (Published).
- S. Kalpana, **S. Sharmila Queenthly**, M. Thirumavalavan, “A performance evaluation system and method for amorphous silicon photovoltaic module analysis” Indian patent(Published)
- M. Thirumavalavan, S. Kalpana, **S. Sharmila Queenthly**, “Wearable Sensor System for Enhanced Telemedicine Management”, Indian patent (Published).
- S. Kalpana, **S. Sharmila Queenthly**, M. Thirumavalavan, “Lipid nanoparticles for delivery of nucleic acids and its performance analysis” Indian patent(Published)

PAPERS PUBLISHED:

- **S.Sharmila Queenthly**, M. Thirumavalavan “Unlocking the learning potential: Exploring the outcome of jigsaw-based cooperative learning on the scholastic achievement”, In book: Pedagogical Revelations and Emerging Trends (pp.257-261), December 2024. DOI:10.1201/9781003587538-51.
- R. Ravichandran, S. Darlin Quine, **S. Sharmila Queenthly** and Ilavarasan M. Dhamu “Preparation, Characterization and Conductivity Studies of SiO₂ doped rGO-WO₃ Composite for Battery Application” Asian Journal of Chemistry, 2024, Vol. 36, (11).
- Munusamy Thirumavalavan, Kalpana Sugumar, **Sharmila Queenthly Sabarimuthu** “A Review on Recent Trends in Green Synthesis, Pharmaceutical and Medical Applications of Nano ZnO” Inorganic Chemistry Communications 2024, 406.113002.
- N. Elangovan, Natarajan Arumugam, Munusamy Thirumavalavan, **Sharmila Queenthly Sabarimuthu**, R. Padmanaban Jebasingh Bhagavathsingh, Shanty Mathew “Solute-solvent interaction and adsorption studies of sulpha drug derivative: A DFT study” J. Mol. Liquids, 2024, 406, 125150. (Chemistry and Engineering, Multidisciplinary).
- Ramasamy Sudhakaran*, Thiagarajan Deepa, Munusamy Thirumavalavan*,**Sharmila Queenthly Sabarimuthu**, Sellamuthu Babu, Thayuman Asokan, Abdulrahman I. Almansour, Pandian Bothi Raja, Karthikeyan Perumal “Enhanced corrosion inhibition effect of sodium tartrate on copper in potable water” J. King Saud Univ., 2023, 35 (9), 102921
- Ramasamy Sudhakaran, Thiagarajan Deepa, Munusamy Thirumavalavan, **Sharmila Queenthly Sabarimuthu**, Sellamuthu Babu, Thayuman Asokan, Pandian Bothi Raja, Natarajan Arumugam*, Karthikeyan Perumal, Sinouvassane Djearamane, Lai-Hock Tey*, Saminathan Kayarohanam “Trisodium citrate as a potential and eco-friendly corrosion inhibitor of copper in potable water”J. King Saud Univ., 2023, 35, 102907.
- Salwa Fatima Ali Mohsin, Smitha Sunil Kumaran Nair, Saqar Said Nasser Al Maskari, Mohamed Yousuf Said Al Rawahi, Shobhy Sosa Andrews, Jenifer Caroline Johnson, **Sharmila Queenthly**, Akhila Rajan, “An inter-institutional and inter-disciplinary collaborative learning to in-silico Motif discovery in Molecular sequences”, IEEE Global Engineering Education Conference (EDUCON2019), Dubai, UAE, April 9-11, 2019

- **S.Sharmila Queenthly**, Stanely Mainzen Prince Ponnian, Babu John. Diosmin Prevents Isoproterenol-Induced Heart Mitochondrial Oxidative Stress in Rats. Cardiovascular Toxicology, 2018; 18: 120-130.
- **S.Sharmila Queenthly**, Stanely Mainzen Prince Ponnian, Babu John. Diosmin prevents left ventricular hypertrophy, adenosine triphosphatases dysfunction and electrolyte imbalance in experimentally induced myocardial infarcted rats. European Journal of pharmacology 2017; 814:124-129.
- **S.Sharmila Queenthly**, Babu John. Diosmin exhibits anti-hyperlipidemic effects in isoproterenol induced myocardial infarcted rats. European Journal of pharmacology 2013; 718:213-218.
- **S.Sharmila Queenthly**, Babu John. Molecular docking of diosmin as cardio protective agent against myocardial infarction. International Journal of Modern Research and Reviews 2013; volume 1, Issue1, pp126-130.

COURSES CERTIFIED:

- IUCEE International Educator Certification Program Fall 2023 course completed with the award of Distinction.
- Online certificate course on “SARS-CoV-2 Protein Modeling and Drug Docking” offered through Coursera. (September– 2022)

ACHIEVEMENTS AND AWARDS:

- Best Performance Award-2016 for Best Teaching Staff in Biotechnology Department, Muscat.

SPECIAL SESSIONS DELIVERED:

- Acted as Session Chair for the International Conference on “Advances in Targeted drug delivery and Functional Materials [ATFM - 2024]” held at PG & Research Department of Chemistry, Government Arts College, Chidambaram - 22nd-23rd March, 2024.
- Resource Person- “Microwave Assisted Greener Organic Synthesis in Water” at Sengunthar Engineering College, Erode, on 10th February 2023.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- **S.Sharmila Queenthly**, Babu John “Docking study of Diosmin as Cardio protective agent against Myocardial Infraction”, Recent Trends in Chemistry State level Seminar organized by PG & Research Department of chemistry, Government Arts College, Chidambaram on 13th and 14th September, 2012.
- Aishwarya Kaushal, Bayan Ahmed, Deemah Abu Alrub, Jawaher Al- habsi , **Sharmila Queenthly** “Optimization and bioethanol production from waste paper using saccharomyces cerevisae” National Seminar on Recent Developments in Bio-Organic Chemistry(RDBOC-2020) organized by PG & Research Department of chemistry, Government Arts College, Chidambaram on 3rd March, 2020.

- “Science, Technology and Engineering Innovation (STEPS 2011)” International Conference organized by Ibra College of Technology Engineering Department on 21st March, 2011.
- “Knowledge Management and Resource Sharing (ICKMARS-2012)” organized by Waljat college of Applied Sciences Muscat on 27th and 28th February, 2012.
- “Science and Technology for Clean and Green Environment” International Conference organized by Annamalai University, Annamalainagar, Tamil Nadu on 27th and 28th July, 2012.
- “Mycology and Biotechnology Applications” Seminar organized by University of Nizwa on 3rd and 4th February, 2014.
- “International Conclave on Innovations in Engineering & Management (ICIEM-2016)” organized by Waljat college of Applied Sciences Muscat during February, 24-25, 2016.
- “Biotechnology in Pharmaceutical Industry: An Overview” a guest lecture organized by Department of Biotechnology & Chemical Engineering on 13th December, 2016 at Waljat College of Applied Sciences.
- “Food safety in Food Preservation and Processing-Hospitality Industry” a guest lecture organized by Department of Biotechnology & Chemical Engineering on 10th April 2017.
- “Lignocellulosic Biomass: A sustainable platform for production Bioproducts.” a guest lecture organized by Department of Biotechnology & Chemical Engineering on 29th November, 2017.
- Workshop on “Constitutional Obligations: Values, Rights, Duties and Responsibilities of Citizens” organized by Rajiv Gandhi College of Management studies and IQAC – 29th April 2023.
- Workshop on “Intellectual Property rights” organized by Department of MBA, Saveetha Engineering College on 11th & 12th April 2023
- International online Workshop on “Multivariate Analysis Interpretation using SPSS” organized by Global Institute of Statistical Solutions (GISS) on 4th to 6th February 2023
- Workshop on “Art of Diversity and Inclusivity”, organized by Saveetha Engineering College(STLC), Chennai – 31st October 2022.
- “Online Teaching Learning methods” organized by Skill Development Center, Adikavi Nannaya University Rajamahendravaram, Andhra Pradesh on 30th July 2020.
- “Research Methodology & SPSS” workshop organized by Waljat college of Applied Sciences Muscat during September, 18-19, 2016.
- Training Cum Workshop on “ADRI” organized by the Quality Control Dept, on 25th June 2016, held at Waljat College of Applied Sciences”, Muscat, Oman.

- “Effective communication” workshop organized by Waljat college of Applied Sciences Muscat on 26th June, 2012.

PROFESSIONAL MEMBERSHIPS:

- Life member of Society of Biological Chemists (India), Life membership Number: 3954

OTHER DETAILS (If any):

Reviewer of Journal

- EC Cardiology (ECCY)
- Journal of Biochemical and Molecular Toxicology