

Dr.G.Kavitha

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Education

- **Ph.D.** in Chemistry, University of Madras, 2021
- **M.Phil** in Chemistry, University of Madras, 2009
- **M.SC.** in Chemistry, University of Madras, 2007
- Qualified Tamilnadu State level eligibility test (TNSET-2017) for Assistant Professor

Teaching Experience

- **Associate Professor** (2024–present), Department of Science and Humanities (Chemistry), Loyola-ICAM College of Engineering and Technology
- **Assistant Professor** (2014-2024), Department of Science and Humanities (Chemistry), Loyola-ICAM College of Engineering and Technology
- **Assistant Professor** (2010-2014), Department of Chemistry, Meenakshi College of Engineering

Academic Responsibilities

- Board of Studies – Internal Member
- Academic council Member
- Curriculum Design Committee – Syllabus InCharge – Chemistry (UG programs)

Administrative Responsibilities

- Dean of Women Students (2025–present)
- Member – Governing Body(2025-present)
- Presiding Officer – Internal Complaints Committee (2025-present)
- Convener – Women Welfare Committee (2025-present)
- Member – Discipline and Welfare Committee(2025-present)
- Member – Anti Ragging Committee(2025-present)
- Member – Student Grievance Redressal Committee (2025-present)
- Member – Internal Quality Assurance Cell (IQAC)(2021-2025)
- Coordinator – LICET Science Club (2021-2022)
- Coordinator – Chemistry lab Incharge(2021– present)
- Coordinator – Time Table committee (2019-2022)

Research and Academic Projects

- Guided and coordinated the project team of III-year students to carry out preliminary analysis (Sulfidic spent Caustic Treatment) for VEOLIA Water Technologies.

Publications

Journals: 9 international publications (Scopus/WoS)

- Kavitha Govindarajan, Perumalswamy Sekar Parasuraman, Parasuraman Vijaya Rohini, Yogesh Hari Krishnan, Seungdo Kim, Self-sterilizing nanofibrous filter loaded with usnic acid for enhanced removal of particulate matter and airborne pathogens, Journal of Environmental Chemical Engineering, Volume 13, Issue 6, 2025, 119501, ISSN 2213-3437
- Sharmin Mst Akter, Hari Krishnan Yogesh, Kavitha Govindarajan, Balkew Zewge Hailemeskel,

Bezuayehu Tadesse Negussie, Asfaw Negash, Shohel Mahmud, Rashika Rajasekhar Kavitha, Kinjal J. Shah, Parasuraman Vijayarohini, Woo Ram Lee, Seung do Kim, Progressive innovations in essential oil and their inlaid air filters for bioaerosol control: A review on future outlook, Journal of Industrial and Engineering Chemistry, Volume 145, 2025, Pages 255-270, ISSN 1226-086X

- Kavitha Govindarajan, Parasuraman Perumalswamy sekar, Karthikeyan Ramasamy, Dhinesh Kumar Ezhumalai, Rashika Rajasekhar Kavitha, Vijayarohini Parasuraman, Biological screening of divalent transition metal decanoates owning powerful antimicrobial and cytotoxic properties, Journal of Drug Delivery Science and Technology, Volume 84, 2023, 104428, ISSN 1773-2247
 - P. Vijayarohini, Caroline Mercy Andrew Swamidoss, G. Kavitha, R. Krishnaveni, S. Bangaru Sudarsan Alwar, Synthesis and characterisation of transition metal complexes with acetyl salicylic acid and its antimicrobial behaviour, Journal of Critical Reviews, Volume 7, Issue 5, 2020, 1479-1494.
 - G. Kavitha, P. Vijayarohini, S. Bangaru Sudarsan Alwar, Potentiometric Studies of Binary Complexes of Capric Acid with Selective Transition Metal Ions In 50 percent Mixed Solvent Medium, Journal of computational and Theoretical nano science, 2018, 15, 2868-2871.
 - G. Kavitha, P. Vijayarohini, S. Bangaru Sudarsan Alwar, Potentiometric Studies of Binary Complexes Of Transition Metal Ions with Lauric Acid, Oriental journal of Chemistry, 2018, 34(5), 2681-2684.
 - G. Kavitha, P. Vijayarohini, S. Bangaru Sudarsan Alwar, Determination of Dissociation Constant and Stability Constants of Palmitic Acid complexes with selective Transition Metal Ions in Ethanol-Water Medium By pH-Metric Method, International Journal of Science and Research, 2017, 6(12) 186-189. (peer-reviewed)
 - P. Vijayarohini, G. Kavitha, S. Bangaru Sudarsan Alwar. The pH-metric Study of Acetyl Salicylic Acid Metal Complexes in Mixed Solvent Media. Der Pharma Chemica. 2017, 9(22), 25-28. (UGC approved)
 - S. Vijayarohini, G. Kavitha, S. Bangaru Sudarsan Alwar. The Effect Of Different Concentrations Of DMF-H₂O On The Proton Ligand Dissociation Constant (pK) And The Stability Constant Of Mn-Glycine Complex, International Journal of Pharmaceutical Science invention, 2014, 3(7), 46-49. (peer-reviewed)
- Conferences:** 3 papers in Scopus indexed proceedings
- G. Kavitha, P. Vijayarohini, Caroline Mercy Andrew Swamidoss, S. Bangaru Sudarsan Alwar, Synthesis, characterization and biological studies of selective metal complexes of lauric acid, Materials Today: Proceedings, Volume 33, Part 7, 2020, Pages 2782-2791.
 - P. Vijayarohini, G. Kavitha, S. Bangaru Sudarsan Alwar, Caroline Mercy Andrew Swamidoss, Antimicrobial activity of selective transition metal co-ordination complexes of myristic acid, Materials Today: Proceedings, Volume 33, Part 7, 2020, Pages 4198-4205.
 - P. Vijayarohini, Andrew Swamidoss Caroline Mercy, G. Kavitha, S. Bangaru Sudarsan Alwar, Enhanced biological properties of taurine metal complexes via binding active sites, Materials Today: Proceedings, Volume 33, Part 7, 2020, Pages 2631-2640.

Areas of Interest

By Research: Inorganic Metal complexes, Nano Materials, Electro chemical studies, Anti microbial materials

By Teaching: Engineering Chemistry, Engineering Chemistry Laboratory, Environmental Science and sustainability

By Experience: Academic Leadership, Outcome-Based Education, Activity based learning, Assessment design, Quality Assurance and Scrutiny

As Resource Person

2025 - Resource Person -“Two-day workshop on Assessment strategies in Outcome Based Education” – IQAC,LICET

2020 - Resource Person -“FDP on ICT Tools for Teaching Learning and Evaluation Process” – IQAC,LICET

Conferences Organised

- Finance Chair – Multidisciplinary International Conference on Informatics and Smart Engineering Systems (INSES 2024)

Conferences Attended (National / International)

International Conferences

- ICCRSD-2021 – Virtual
- ICACCS-2018
- ICORTAC-2018

National Conferences

- AIMEE-2017

Paper Presentations

2021 'Newly Synthesized Transition Metal Complexes of Hexadecanoic Acid as Anti-Microbial Agents: Synthesis, Characterization and Biological Investigations'

2019 Synthesis, Characterization and biological studies of selective metal complexes of Lauric acid national conference on Advances in Science, Humanities and Technology held during July 2019 organized by Saveetha school of Engineering

2018 "Potentiometric studies of binary complexes of transition metal ions with lauric acid" – ICORTAC

2018 'Potentiometric studies of binary complexes

of capric acid with selective transition metal ions in mixed solvent medium' – ICACCS

2017 “Determination of Dissociation Constant and Stability Constants of Palmitic Acid complexes with selective Transition Metal Ions in Ethanol-Water Medium By pH-Metric Method” and won the best paper award in the National conference (AIMEE-2017) organised by SRM university

2010 “Study of Role Of Polymer On Dissociation Constant Of Benzoic Acid In Aqueous – DMSO Medium” and won the best presentation award in the National seminar in physical sciences for P.G. and M.Phil students organised by DG Vaishnav College, Chennai in 2010.

Workshop / FDP: Attended

Year	Title / Organizer
2025	“Publish with Purpose:Mastering the Art of Academic Writing ” – MCC Research Colloquium (10 days)
2025	“Three days Hands on Training on Synthesis,Characterisation and Data interpretation of Nano Materials” – B.S.Abdur Rahman Crescent Institute of Science and Technology

2025	“The Art of Publishing Articles in Indexed Journals” – MCC Research Colloquium (7 days)
2022	“CY3151-Engineering Chemistry” – Kongu Engineering College (6 days)
2021	“Current Technology in Chemistry” – Easwari Engineering College
2021	“ICT Tools for Faculty ” – ICT Academy
2021	“ADVANCES IN ANALYTICAL TECHNIQUES” – SRM Institute of Science and Technology
2021	“Advancement in Futuristic Energy Devices" – Faculty Training Centre, Government College of Technology, Coimbatore
2021	” Current Technology in Chemistry”– Easwari Engineering College
2021	“DST FIST sponsored two days virtual workshop on SEM
2020	“MANAGING ONLINE CLASSES and CO-CREATING MOOCS ” –Teaching Learning Centre, Ramanujan College (University of Delhi)
2020	“Evolution of Teaching Learning Process- Post Covid Era”, Bharath Institute of Higher Education and Research.
2020	“Enhancing Research and Consultancy Skills”, Department of Mechanical Engineering, Rajarambapu Institute of Technology, Rajaramnagar under RIT-Center for Teaching and Learning (RIT-CTL)
2020	“Learning Management System MOODLE”,Sacred Heart College in association with AIACHE
2020	‘Embracing The Creative Side of Teaching and Learning Methods”, RMK College of Engineering and Technology.
2020	“Modern Trends and Current Research in Chemistry ”, Sathyabama Institute of Science and Technology in association with Department of Chemistry, IIT Madras.
2020	”International e- Faculty Development Programme Series”, PG and Research Department of Commerce , Aringar Anna Government Arts College.
2020	”Energy and Environment - Towards Sustainability” , Department of Chemistry, Sathyabama Institute of Science and Technology in association with Csir - Central Leather Research Institute (CSIR-CLRI), Chennai
2020	”Inculcating Universal Human Values in Technical Education”– All India Council for Technical Education(AICTE).
2019	“Short term training programme through ICT mode on NBA Accreditation” – NITTR, Kolkata

MOOCs Course Details

- NPTEL – “Soft skills”
- Online Course on Examination Reforms – AICTE.
- ”Chemistry: The Catalyst for Change” – Refresher course – the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme.
- Coursera – “Nano Technology:Maker’s Course”
- Coursera – “Write Professional Emails in English”

Any Other Details

- Handled chemistry classes (Electro Chemistry,Thermodynamics) for ICAM,France students for three years (2017-2019).
- Handled PBLs International Bachelor Programme Students,ICAM (2024-present).
- Certified Google Educator Level 1
- External Question paper setter and Scrutiniser