

JOSEPH LIBIN K L

Assistant Professor
Department of Chemistry
St. Michael's College,
Cherthala-688539, Kerala.

Education

- B.Sc., Sacred Heart College, Thevara, M. G. University, 2008
- M.Sc., Sacred Heart College, Thevara, M.G.University, 2010
- NET (2010,2011), CSIR-JRF(2012)

Teaching Experience: 10 years

- St. Michael's College, Cherthala: 2013 onwards

Research Interests

- Supramolecular Chemistry
- Computational Chemistry

Research Project

Title	Name of funding Agency	Sanctioning Year	Remarks
Comparative Study of Substituent Effect on two related families of Dye Sensitized Solar Cells using Ruthenium and Iridium Complexes	UGC Minor Research Project Amount : Rs. 1,50000	2014	Completed

Publications

- DNA-Decorated Two-Dimensional Crystalline Nanosheet. *J. Am. Chem. Soc.* 2017, 139, 49, 17799–17802
- Investigation of the inhibitory activity of some dietary bioactive flavonoids against SARS-CoV-2 using molecular dynamics simulations and MM-PBSA calculations. *Journal of Biomolecular Structure and Dynamics* 2022, 40,15, 6755–6770
- Identification of some dietary flavonoids as potential inhibitors of TMPRSS2 through protein–ligand interaction studies and binding free energy calculations. *Structural Chemistry*. 2022 33, 1489–1502
- Unbinding pathways and energetics of papaya derived flavonoids as dengue MTase inhibitors via SMD-US and MMGBSA methods. *Journal of Biomolecular Structure and Dynamics* 2025, 1-25

Extension Activities

- Assistant Coordinator, Career Guidance & Placement Cell (2013-2015)
- Coordinator, International Ozone Day Celebration (2014)

- Associate Programme officer , NSS (2015)
- Internal Mentor, Scholars support programme (2015-2016)
- Teacher-in-charge, Anti-drug club (2015-2023)
- Member, Feedback committee (2015-2018,2021-23)
- Assistant Convener , Canteen committee (2018-2023)
- Member, Discipline Committee (2016-2018)
- Coordinator- Calendar Committee(2018)
- Assistant Information officer,RTI(2018-2023)
- Coordinator, Walk With a Scholar (WWS) (2017-2019)
- Member, Examination Committee(2018-19)
- Convener- Feed Back Committee(2019-2021)
- Secretary, Teaching Staff Association (2019-2022)
- Coordinator, OBC cell (2022)
- Liaison officer, Welfare of OBC's (2022)
- Coordinator - DLMC (2023)
- Member, Board of Examinations, Maharajas College, Ernakulam.
- Coordinator, ChemWonders 2019 - Workshop for school students.
- Member, Board of Examinations, Maharajas College, Ernakulam.
- Staff Advisor (2024&2025)

Professional Development Programme

Programme	Subject	Period	Organizer/Place
Orientation Course	IT Oriented	19/08/2015 – 15/09/2015	Bharathiar University, Coimbatore
Online Refresher Course (Swayam)	ARPIT	01-09-2018 to 28-02-2019	UGC, S.G.T.B. Khalsa College, University of Delhi
Online Refresher Course (Swayam)	ARPIT	01-10-2019 to 31-01-2020	UGC, S.G.T.B. Khalsa College, University of Delhi
Certificate Course	Molecular docking & Drug Design	02-10-2018 to15-12-2018	Sacred Heart College, Thevara, Kochi
Faculty Development Program	R programming by Spoken Tutorial Project	07-09-2020 to 14-09-2020	IIT Mumbai
Faculty Development Program	Scaffolding for Students: Role of College Teachers	16-10-2021 to22-10-2021	M.G university Kottayam in Association with St.Alberts College

Seminar/Workshop Attended

- 24th Prof. K. V. Thomas Endowment Seminar and the 5th International Conference on New Trends in Applied Chemistry (NTAC 2026), organized by PG & Research Department of Chemistry, Sacred Heart College Thevara on February 20–21, 2026.

- National Seminar on Recent Advances in Photochemistry (NSPC 2023), organized by Department of Chemistry, St.Michael's College, Cherthala, in association with KSCSTE on 01-02-2023 to 03-02-2023.
- Presented a paper in International Virtual Conference on Future Prospects in Chemical Research organized by PG & Research Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirappalli on 21st and 22nd December 2022.
- Webinar on Requirement of Professionalism in Online Teaching and Learning by IQAC, St.Michael's College, Cherthala on 14-08-2020
- International Webinar Lecture Series organised by the Department of Chemistry, St.Michael's College, Cherthala, Alappuzha, Kerala from 21-23 May 2020.
- International Webinar on "Impact of light in chemistry and its applications" organised by St.Paul's College, Kalamassery on 30 th May 2020.
- Webinar on Intellectual Property Rights and Behavioral Safety on 30-05-2020 organised by Government Degree College, Sadsivpet, Telangana
- Webinar on "Preparing for Online Learning" on 27th May 2020 organized by Post graduate and research department of chemistry, Sacred Heart Collge, Thevara
- Webinar on "Cyclic and Linear Sweep Voltammetry - Fundamentals & Applications" conducted by the Department of Chemistry, Bhaktavatsalam Memorial college for women Chennai on 31st May 2020.
- Two day Workshop on Spectroscopy and Computational Chemistry on 9-10 August 2018 organised by Post graduate and research department of chemistry, Marthoma College, Thiruvalla.
- Fourth International Conference on Membranes"(ICM 2017) on Sep 30- Oct 3 2017 organised by Department of Chemistry, St.Michaels College ,Cherthala.
- Two day Workshop on Science Molecular Mechanics on 2-3 Feb 2017 organised by Post graduate and research department of chemistry, Maharaja's College, Ernakulam.
- International Conference on Water : From pollution to purification (ICW)-2015 on Jan 23- Jan26, 2015 organised by Centre for Environment Education and Technology(CEET), Kottayam and Advance center of Environmental Studies and Sustainable Development, M.G University, Kottayam.
- National Seminar on Nano- Chemistry Techniques, Advancement and Applications on 16 Oct-2015 organised by Post graduate and research department of chemistry, S D College, Alappuzha in association with Academy of Chemistry Teachers, Trivandrum.
- Teachers Two day Workshop on " Micro Scale Experiment in Chemistry" on 18-19 March, 2014 organized by Board of Studies in Chemistry, Kerala University in Association with Academy of Teachers(Chemistry)
- International Conference on Membranes(ICM)-2013 on Oct 3- Oct6, 2013 organised by Centre for Environment Education and Technology(CEET), Kottayam and Advance center of Environmental Studies and Sustainable Development, M.G University, Kottayam