

## Dr. Pearl Augustine

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### EDUCATION

**Ph. D.** Chemistry 2009

Cochin University of Science and Technology (CUSAT)  
Kochi, Kerala

*Thesis:* Development of Electrochemical Sensors for the  
Determination of Certain Pharmaceuticals

*Supervisor:* Prof. K. Girish Kumar

**M. Sc.** Applied Chemistry 2003

University of Calicut, Kerala

**B. Sc.** Chemistry 2001

University of Calicut, Kerala

### TEACHING EXPERIENCE

**Assistant Professor** Department of Chemistry Nov. 2010 till now  
St. Michael's College  
Cherthala, Alappuzha

### RESEARCH EXPERIENCE

**DRDO Research Fellow** Department of Chemistry, CUSAT, Kochi Jul. 2006 – Jan. 2008

**CUSAT Research Fellow** Department of Chemistry, CUSAT, Kochi Jul. 2004 – Jun. 2006

### RESEARCH INTERESTS

- Voltammetric sensors for drugs
- Sensors for food safety and environment monitoring
- Potentiometric sensors
- Chemical modification of electrodes

## RESEARCH / CONFERENCE GRANTS RECEIVED

<b>Title</b>	<b>Name of funding Agency</b>	<b>Sanctioning Year</b>	<b>Remarks</b>
National Seminar on NMR Spectroscopy (January 2024)	KSCSTE Amount : Rs. 30,000.00	2024	Completed
Study of the Electrochemical Properties of Analytes using Voltammetric Sensors	KSCSTE Student Project Amount : Rs. 10,000.00	2019	Completed
National Seminar on Recent Advances in Photochemistry (NSPC 2019)	KSCSTE Amount : Rs. 50,000.00	2018	Completed
Synthesis and Photophysical Properties of Fluorescent Chitosan	UGC Minor Research Project Amount : Rs. 90,000.00	2012	Completed

## PROFESSIONAL DEVELOPMENT

<b>Programme</b>	<b>Subject</b>	<b>Period</b>	<b>Organizer/Place</b>
Online Short-Term Programme	Disaster Management	25.07.2022 to 30.07.2022	UGC, HRDC, University of Hyderabad
Online Short-term Course	Moodle Learning Management System	23.11.2020 to 27.11.2020	St. Michael's College, Cherthala and Spoken Tutorial Project, IIT Bombay
Short-term Course	Online Education in Higher Education Institutes	13.07.2020 to 17.07.2020	Kerala State Higher Education Council
Faculty Development Programme – (Online)	GChem Paint and Libre Office Suite Writer	04.05.2020 to 10.05.2020	Spoken Tutorial Project, IIT Bombay
Online Refresher	Chemistry	16 weeks, Completed on 16.02.2020	UGC – AICTE- MHRD, on SWAYAM
Refresher Course	Environmental Sciences (Multidisciplinary)	11.01.2020 to 24.01.2020	UGC, HRDC, University of Kerala, Thiruvananthapuram
Online Short-term Course	Metals in Biology	July – September 2019 (8 weeks)	NPTTEL - AICTE

Refresher Course	Environmental Sciences (Multidisciplinary)	02.02.2017 to 22.02.2017	UGC, HRDC, University of Kerala, Thiruvananthapuram
Orientation Course	IT Oriented	22.04.2015 to 19.05.2015	UGC, HRDC, University of Kerala, Thiruvananthapuram

## PROFESSIONAL MEMBERSHIP

Life Member (Membership No.: LM238) - Indian Society for ElectroAnalytical Chemistry (ISEAC)

## ADMINISTRATIVE RESPONSIBILITIES

- Co-ordinator – AISHE (2025)
- Co-ordinator, National Seminar on NMR Spectroscopy, Jan 2024
- Co-ordinator, Two Day Workshop on Facets of Research Methodology (2022)
- Coordinator, CLMC – CBCSS (2022 Onwards)
- Coordinator, Internal Examinations (2022 Onwards)
- Coordinator, National Science Day Celebration (NSD – 2022)
- Secretary, Staff Co-operative Bank (2022 onwards)
- Convenor, Feed back Committee (2021 Onwards)
- Convenor, Equal Opportunity Center (2021, 2020)
- Coordinator, Minority Cell (2021, 2020)
- Co-ordinator, International Conference on Photochemistry and Sustainable Energy (ICPSE - 2019)
- Co-ordinator, National Seminar on Recent Advances in Photochemistry (NSPC – 2019)
- Member, Academic Monitoring Committee
- Member, IQAC
- Member, Research Promotion Council
- Member, Anti-drug Committee
- Member, Board of Examinations, University of Calicut, Kerala
- Member, Board of Examinations, St. Theresa's College (Autonomous), Ernakulam.
- Member, Board of Examinations, Maharaja's College (Autonomous), Ernakulam.

## SEMINAR / WORKSHOPS ATTENDED

1. National Seminar on NMR Spectroscopy Department of Chemistry, St. Michael's College, Cherthala, Jan.2024.
2. National Seminar on Recent Advances in Photochemistry (NSPC 2023), Department of Chemistry, St. Michael's College, Cherthala, Feb. 2023.
3. International Conference on Materials for the Millenium (MATCON -2023), Department of Applied Chemistry, Cochin University of Science and Technology, January 12- 14, 2023.
4. National Seminar on Recent Advances in Photochemistry (NSPC – 2019), Dept. of Chemistry, St. Michael's College, Cherthala, Feb. 2019.

5. Seminar on “Analytical Techniques for Environmental Monitoring and Measurements”, School of Environmental Studies, Cochin University of Science and Technology, Kochi, June 2019.
6. International Conference on Materials for the Millennium, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, March 2019.
7. International Conference on Membranes (ICM 2017), Department of Chemistry, St. Michaels College, Cherthala, 30 Sept – Oct3, 2017.
8. National Seminar on “Advancements in Polymer Science and Technology”, Department of Chemistry, St. Teresa’s College, Ernakulam, Jan 2017.
9. National Seminar on Recent Advances in Materials Science, Government College, Kottayam, Jan. 2017.
10. National Seminar on Recent Advances in Photochemistry, Dept. of Chemistry, St. Michael’s College, Cherthala, Dec. 2015.
11. Annual Nodal Centre Conference of VALUE Virtual Labs (supported by MHRD), Amrita Vishwa Vidyapeetham, Kollam, August 2015.
12. International Research Conference on Advanced Techniques in Chemistry, Department of Chemistry, St. Albert’s College, Ernakulam, Jan. 2014.
13. National Seminar on Recent Advances in Photochemistry, Dept. of Chemistry, St. Michael’s College, Cherthala, Dec. 2013.
14. National Seminar on Frontiers in NMR Spectroscopy, Department of Chemistry, St. Michael’s College, Cherthala, July 2011.
15. National Seminar on Current Trends in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2011.
16. National Seminar on Current Trends in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2008.
17. International Conference on Materials for the Millennium, Cochin University of Science and Technology, ICM -2007, organized by Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2007.
18. National Seminar on Sensors and its Applications, National Institute of Technology, Trichy, Tamil Nadu, India, 2007.
19. National Seminar on Frontiers in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, 2006.
20. National seminar on Emerging Trends and New Vistas in Chemistry, Dept. of Applied Chemistry, University of Calicut, 2005.

## PUBLICATIONS

1. Joseph R.;Issac S.;**Augustine P.**;Theresa C.J.;Girish Kumar K., *Voltammetric Determination of PAM Chloride Using Dodecanethiol and Carbon Nanotube Modified Gold Electrode*, **Journal of Physics Conference Series**,3038, 2025.
2. Raju Devika, Aiswarya Satheesh, **Pearl Augustine**, Manoj Parameswaran, Ranjini Radhakrishnan, *S-Polarized Light-Induced UV-Vis Plasmonics in Al-Ag Dimers: A Theoretical Perspective*, **Hungarian Journal of Industry and Chemistry**,53(2),79-84 2025.

3. M. Gayathri Mohan, Aravind Krishnan, Beena James, **Pearl Augustine**, P. Manoj, *Theoretical studies of squaraine and functionalized 2,1,3-benzothiadiazole molecules for solar cell applications*, **Materials Today: Proceedings**, 33 (2), 1268-1273, 2020.
4. Seena Elizabeth George, Vibin Ipe Thomas, Beena James, **Pearl Augustine**, C. Rajalakshmi, P. Manoj, *Modelling and synthesis of solution processable dibenzothiophene derivative for organic electronics*, **Materials Today: Proceedings**, 33 (2), 1288-1292, 2020.
5. **Pearl Augustine**, K. Girish Kumar “*Polymeric Membrane Potentiometric Sensors for the Determination of Lamivudine*”, **Dominican Discern - A Refereed Journal for Interdisciplinary Studies** (ISSN 2454-5708), 2(4), 6-10, 2017.
6. Annie Merlin, **Pearl Augustine**, “*A Novel Schiff Base Derivative of Chitosan with Vanillin*” **Michaels Journal of Academic Research (MJAR)** an Interdisciplinary Journal of St. Michael's College, Cherthala, 1, 51-52, 2017.
7. K. Girish Kumar, **Pearl Augustine** and Sareena John, “*Novel potentiometric sensors for the selective determination of domperidone*”, **Journal of Applied Electrochemistry**, 40(1), 65-71, 2010.
8. K. Girish Kumar, **Pearl Augustine**, Sareena John, Jerzi Radecki and Hanna Radecka, “*Fabrication of potentiometric sensors for the selective determination of Ketoconazole*”, **Analytical Letters**, 41(7), 1144-1157, 2008.
9. K. Girish Kumar, **Pearl Augustine**, Sareena John, “*A novel potentiometric sensor for the determination of nimesulide*”. **Portugaliae Electrochimica Acta** 25(3), 375-381, 2007.
10. K. Girish Kumar, Sareena John, **Pearl Augustine**, Remalakshmy Poduval and Beena S., “*A novel mebendazole selective membrane sensor and its application to pharmaceutical analysis*”, **Analytical Sciences**, 23(3), 291-294, 2007.
11. K. Girish Kumar, Remalakshmy Poduval, **Pearl Augustine**, Sareena John and Beena S., “*A PVC plasticized sensor for Ni (II) ion based on a simple ionophore*”, **Analytical Sciences**, 22(10), 1333-1337, 2006.
12. K. Girish Kumar, Remalakshmy Poduval, Sareena John and **Pearl Augustine**, “*A PVC plasticized membrane sensor for nickel ions*”, **Microchimica Acta**, 156, 283-287, 2006.
13. K. Girish Kumar, **Pearl Augustine**, Remalakshmy Poduval and Sareena John, “*Voltammetric studies of sparfloxacin and application to its determination in pharmaceuticals*”, **Pharmazie**, 61(4), 291-292, 2006.
14. K. Girish Kumar, Sareena John, Remalakshmy Poduval and **Pearl Augustine**, “*Electrochemical determination of terazosin in pure form and in dosage forms*”, **The Chinese Pharmaceutical Journal**, 57, 29-36, 2005.