

## CURRICULUM VITAE

**Dr. LIGI M.L.**

### **PERMANENT ADDRESS**

Marayil House, Alangad (P.O.)  
Thiruvallloor, Ernakulam-683511

### **PRESENT ADDRESS**

Sumesh Bhavanam, Manappuram (P.O.)  
Cherthala, Alappuzha-688526

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### **PERSONAL DETAILS**

- Father's Name : Lalu M. D.
- Marital Status : Married
- Husband's Name : Sudheesh S.
- Date of Birth : (14<sup>th</sup> May 1988)
- Linguistic Proficiency: English, Hindi, Malayalam
- Nationality : Indian
- Sex : Female
- Community : Hindu, Ezhava

### **EDUCATION**

<b>Degree/ Examination</b>	<b>Year of Passing</b>	<b>School/Institute</b>	<b>Board/University</b>	<b>Percentage/ Grade</b>
Doctor of Philosophy (Chemistry)	2018	Cochin University of Science & Technology	Cochin University of Science & Technology	N.A
Master of Philosophy (Chemistry)	2012	Cochin University of Science & Technology	Cochin University of Science & Technology	7.45 (CGPA)

Master of Science (Chemistry)	2010	Union Christian College, Aluva	Mahatma Gandhi University, Kottayam	78.77%
Bachelor of Science (Chemistry)	2008	St. Xavier's College for Women, Aluva	Mahatma Gandhi University, Kottayam	91.60%
Class XII	2005	Govt. Higher Secondary School, North Paravur	Kerala State Board	81.50%
Class X	2003	LFHS, Panayikulam	Kerala State Board	86.66%

#### **ADDITIONAL QUALIFICATION**

- Qualified NET with UGC-JRF in June 2011.

#### **RESEARCH EXPERIENCE**

- 2012 July - 2014 July: Junior Research Fellow in the Dept. of Applied chemistry (Area: Organic Chemistry, Supervising guide: Dr. S. Prathapan.)
- 2014 July- 06-12-2017: Senior Research Fellow in the Dept. of Applied chemistry (Area: Organic Chemistry, Supervising guide: Dr. S. Prathapan.)

#### **TEACHING EXPERIENCE**

- In the academic year 2018-2020 working as Guest lecturer in Chemistry at DB College Thalayolaparambu
- In the academic year 2021-2022 working as Guest lecturer in Chemistry at NSS College, Cherthala
- In the academic year 2022-2023 working as Guest lecturer in Chemistry at St Michael's College, Cherthala

#### **AREAS OF INTERESTS**

- Organic Synthesis
- Conducting Polymers

#### **SOFTWARE SKILL SET**

- Working experience in Windows and MS office.
- Packages : Scifinder, ChemDraw and MS office, Origin.

#### **TECHNICAL SKILLS**

- Infrared Spectroscopy

- UV- Visible Spectroscopy
- Gas Chromatography-Mass Spectrometry
- Cyclic Voltammetry
- Fluorescence spectrophotometer
- Liquid Chromatography-Mass Spectrometry
- Interpretation skills for the analysis of Powder XRD, Gel Permeation Chromatography, Thermogravimetry, Differential Scanning Calorimetry, Scanning electron Microscopy, Atomic Force Microscopy.
- Interpretation skills for the analysis of NMR.

## RESEARCH PAPERS

### Published in International journals

- Light emitting, segmented block copolymers containing distyrylbenzene blocks connected through  $\alpha,\omega$ -nonamethylenedioxy chain spacer for applications in polymer light emitting diodes. **M.L. Ligi** , A. Abhilash , Sreekanth J. Varma c , P.A. Unnikrishnan , S. Prathapan , S. Jayalekshmi Dyes and Pigments 184 (2021) 108729
- Ground and excited-state electron-transfer reactions of a few (anthracen-9-yl)methanamines: a comparative study, Jomon P. Jacob, **Ligi M. Lali**, Reshma Gopalakrishnan, Rekha R. Mallia, Perupparampil A. Unnikrishnan and Sreedharan Prathapan ARKIVOC 2015 (vii) 270-283
- (Anthracen-9-yl)methyl sulfides as a mechanistic probe for chemical as well as photochemical electron-transfer reactions, Reshma Gopalakrishnan, Jomon P. Jacob, Sa ada Farhana T. Moideen, **Ligi M. Lali**, Perupparampil A. Unnikrishnan, and Sreedharan Prathapan. ARKIVOC 2015 (vii) 1-14
- Facile one-pot method for the synthesis of arylmethanamines Jomon P. Jacob, **Ligi M. Lali**, Reshma Gopalakrishnan, Rekha R. Mallia, Sreedharan Prathapan,

- Perupparampil A. Unnikrishnan J. Adv. Res. Appl. Chem. Chem. Eng. 2014; 1(1): 1- 9.
- Synthesis and Photochemical Transformations of a few 3,3-Bis(4- chlorophenyl)-5-aryl-2(3H)-furanones Vidya Raman, Rakesh Natarajan, Tomson Devassia, **Ligi M. L.** J. Adv. Res. Appl. Chem. Chem. Eng. 2014; 1(2): 13- 19.
  - Synthesis of blue light emitting poly(p-phenylene vinylene) copolymer for optoelectronic applications, **Ligi M. L.**, Abhilash A. Jayalekshmi S., Unnikrishnan P. A. and Prathapan S., Prof. K V Thomas Endowment International Symposium on New Trends in Applied Chemistry, NTAC - 2017, Sacred Heart College (Autonomous), Thevara, Kerala, India. ISBN:978-81-930558-2-3.

#### **Published in International Conferences**

1. Blue light emitting Poly Phenylene Vinylene copolymer for polymer LED applications, Ligi M. L., Abhilash A., S. Jayalekshmi, S.Prathapan, Contemporary Advances of Science and Technology, IC-CAT-2015, Banaras Hindhu University, Varanasi, India.(Best Poster Award)
2. Synthesis of blue light emitting poly(p-phenylene vinylene) copolymer for optoelectronic applications, Ligi M. L., Abhilash A. Jayalekshmi S., Unnikrishnan P. A. and Prathapan S., Prof. K V Thomas Endowment International Symposium on New Trends in Applied Chemistry, NTAC - 2017, Sacred Heart College (Autonomous), Thevara.

#### **Published in National Conferences**

1. Novel poly(p-phenylene vinylene) based segmented block copolymer for optoelectronic applications, Ligi M. L., Abhilash A. Jayalekshmi S., Unnikrishnan P. A. and Prathapan S., CTriC 2017, Cusat.

#### **Oral presentations**

1. Novel blue-light emitting ring substituted segmented PPV Block material containing rigid 1,4-Phenylenebis(methylene) spacer attached through ether linkage for optoelectronic applications Ligi M L., Abhilash A., Prathapan S., Jayalekshmy S. and Unnikrishnan P.A., CTriC 2018, Cusat.

## REFERENCE

1. **Dr. S. PRATHAPAN**  
PROFESSOR  
DEPT. OF APPLIED CHEMISTRY  
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY  
COCHIN 22, EMAIL: [prathapans@gmail.com](mailto:prathapans@gmail.com), **Mob No: 9846142512**