

# RESUME

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**Dr. Prathapan S.**

Associate Professor

Department of Applied Chemistry

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## Professional Details

### A. Department of Applied Chemistry, Cochin University of Science and Technology

1. Eligible for promotion as **Professor** as on **May 2011**
2. 2007 to date Associate Professor
3. 2003 to 2007 Reader
4. 1994 to 2003 Lecturer

### B. Prior to joining Cochin University of Science and Technology

1. 1991 to 1994 Assistant Instructor, Carnegie Mellon University, Pittsburgh, USA
2. 1998 to 1991 Norman and Rosita Winston Fellow, The Rockefeller University, New York, USA

## Educational Background

1. M.Sc. (1981) Cochin University of Science and Technology (First class and Third Rank)
2. Ph.D. (1988) Indian Institute of Technology, Kanpur

## Visiting Assignments

1. 1998 Visiting Fellow. North Carolina State University, USA
2. 1999 Visiting Fellow, University of Connecticut, USA
3. 2000 Visiting Fellow. North Carolina State University, USA

4. 2000 Invited lecture at University of Toronto, Canada
5. 2004 Visiting Professor, Carnegie Mellon University, USA

### **Important Assignments**

1. Member: Board of Studies, Cochin University of Science and Technology
2. Member: PG Board (Chemistry), Kerala University
3. Member: Academic Council, CUSAT (2012 to 2014)
4. Member: University Senate, CUSAT (2012-2014)
5. Member: Faculty of Science, CUSAT (2012 to date)
6. Member: Program Implementation Group for PURSE fund allocation totaling Rs. 50000000 (five crores), CUSAT
7. Chairman: Council of Wardens, CUSAT (in charge of 10 hostels run by the University) 2010-2014
8. Member: Advisory Committee for Coaching Schemes for SC/ST/OBC/Minority Students
9. Member: Advisory Committee on activities of Department of Youth Welfare
10. President: Alumni Association, Department of Applied Chemistry, CUSAT
11. Executive Member: Parent Teacher Association, Department of Applied Chemistry, CUSAT

### **Affiliations**

Permanent Member, Chemical Research Society of India

### **Other Activities**

1. Invited and Endowment Lectures at various Colleges, Universities and Institutions (23)
2. Coordinator: International Conference, MATCON 2010 at CUSAT
3. Coordinated several programs for College teachers and School Students, CUSAT
4. Member: National Advisory Board for National and International Seminars (9)

### **Professional Achievements and Research Output**

1. Papers published: **51** (all in reputed international journals)
2. Patents: **2** (International patents)

### **Recent Publications**

1. Dramatic solvent and concentration dependence in the reaction of (anthracen-9-yl)methanamines with suitable electron deficient acetylenes, Jomon P. Jacob, Reshma Gopalakrishnan, Rekha R. Mallia, Jean John Vadakkan, Perupparampil A. Unnikrishnan, Sreedharan Prathapan, *J. Phys. Org. Chem.* **2014**, *27*, 884-891.
2. Domino reaction sequences leading to the formation of 2:2 adducts between acenaphthenequinone and acetophenone, Jomon P. Jacob, Christy Kunjachan, L. U. Sajitha, Roshini K. Thumpakara, K. Rakesh, V. Nidhisha, Perupparampil A. Unnikrishnan, Sreedharan Prathapan, *ARKIVOC* **2014**, *vi*, 127-138.
3. Efficient one-pot synthesis of (anthracen-9-yl)methyl sulfane derivatives, Reshma Gopalakrishnan, Jomon P. Jacob, Ranjith Chirakandathil, Perupparampil A. Unnikrishnan, Sreedharan Prathapan, *Cogent Chemistry* **2015**, *1*, 1033820.
4. Studies on the solvent dependence in the reaction of (anthracen-9-yl)methyl sulfides with suitable electron deficient acetylenes, Reshma Gopalakrishnan, Jomon P. Jacob, Rekha R. Mallia, Perupparampil A. Unnikrishnan, Sreedharan Prathapan, *J. Phys. Org. Chem.* **2015**, *28*, 472.
5. Diverse reactivity of nitrones towards electron deficient acetylenes, Sandhya Radhamani, Rakesh Natarajan, Perupparampil A. Unnikrishnan, Sreedharan Prathapan and John P. Rappai, *New J. Chem.* **2015**, *39*, 5580.

### **Achievements as Research Supervisor**

1. Successfully guided Eleven (11) students towards the award of Ph.D. degree
2. Currently supervising Seven (7) Ph.D. students
3. Ten (10) students completed their M.Phil. dissertation
4. Nine (9) students completed their M.Sc. project research
5. Evaluated 15 Ph.D. theses and chaired open defense of seven (7) Ph.D. students

### **Achievements as Coordinator of Sponsored Projects**

1. Principal Investigator: Three (3) projects sponsored by CSIR, DST and DRDO totaling Rs. 47 lakhs
2. Co-Investigator: Six (6) projects sponsored by DBT, BRNS, CSIR, Kerala Government, and DST totaling Rs. 180 lakhs

### **Scientific Collaborations**

1. Department of Physics, CUSAT
2. Department of Polymer Science and Rubber Technology, CUSAT
3. International School of Phonics, CUSAT
4. Department of Electronics, CUSAT
5. National Center for Aquatic Animal Health, CUSAT

*Two (2) students completed their PhD based on these collaborative programs*

**International Assignments:**

1. Member: Editorial Board of *International Journal of Chemistry* (published from Canada)
2. Member: Editorial Board of *International Journal of Applied Chemistry and Chemical Engineering* (published from Europe)
3. Reviewed articles submitted to several international journals