

Faculty Profile

<p>Name: Dr Ravikumar M</p> 				
Designation:	Associate Professor			
Qualification:	Ph. D in Chemistry			
Area of specialization:	Organic Chemistry, Porphyrin Synthesis, Nanomaterials, and their Sensor Application			
Experience:	Industrial Experience	Teaching Experience		
	06 Months	4 Year		
Number of workshops / FDP attended:	Number of Workshops	Number of FDPs		
	2	2		
Publications:	Conference		Journal	
	National	International	National	International
	-	-	-	14
Books / Book Chapters	No			
Patents:	National		International	
	-		-	
Professional Body Membership	<ul style="list-style-type: none"> • IEEE PROFESSIONAL COMMUNICATION SOCIETY • IEEE EDUCATIONAL SOCIETY 			
Staff Achievements	<ul style="list-style-type: none"> • Successfully received grants by NSTC Taiwan- from -2024 to 2025. Title: Novel Metallo porphyrins/rGO/MNPs (Sn, P, Cu)-Based Electrochemical Sensors of Hormones in Real 			

World Samples

- **Fund Amount: 1.5 million NTD/NSTC- 113-2221-E-027-014 (Completed).**
- **Best paper presentation award** in “International Conference of Functional Materials (ICFM-2016) organized by PSNCET”, India, from 13th -16th December 2016.
- **Summer internship fellow (SIF)** at Quality Control, Fourrts (India) laboratories Pvt. Ltd, Chennai-48, for period of 2nd May 2012- 30th June 2012.

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
1	Ph. D	Organic Chemistry	2021	Anna University	Anna University	-	-
2	MSc	General Chemistry	2013	Guru Nanak College	Madras University	69.1	I
2	BSc	General Chemistry	2011	Govt Arts and Science College	Periyar University	68.5	I

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sai Ram Engineering College (SEC)	AP	06.09.24	Present	1	6	-
National Taipei University of Technology (NTUT),	Post-doctoral	01.11.22	31.01.24	1	6	-
Hindu College, Chennai, Tamil Nadu, India	AP	26.07.21	31.05.22	-	9	-
Indian Institute of Technology Madras (IIT-M)	Post-doctoral	22.11.19	25.05.20	-	6	-
Centre for Scientific and Applied Research (C-SAR), PSNCET	Project Fellow	30.07.2014	30.09.2017	3	-	-

Workshops/Seminars attended: nil

FDP/STTP Attended: nil

Symposium Attended: nil

Conference Attended: nil

Completed / Ongoing Projects: 1

Patent: nil

Books / Book Chapters: nil

Awards: nil

Startup: nil, Webinar: nil, Resource Person: nil and Online Courses: 2

Journal Publications:

1. [Copper Tetraphenyl Porphyrin with Copper Phosphate-Intertwined 2D-rGO Composite as an Efficient Electrocatalyst for Highly Sensitive and Precise Monitoring of Pineal Hormone.](#) A Santhan, KY Hwa, R Murugan, CW Ou. Applied Materials Today 45 (2025), 102808
2. [Vanadium selenide encapsulated \$\beta\$ -Cyclodextrin/rGO nanosheets: An effective electrochemical detection of antibiotic in environmental aquatic and biological samples.](#) H Kuo-Yuan, S Aravindan, G Anindita, M Ravikumar. Journal of the Taiwan Institute of Chemical Engineers 165 (2024), 105749
3. [Facile synthesis of silver selenide anchored on \$\beta\$ -cd/reduced graphene oxide hybrid composites for electrochemical sensing of azithromycin in biological and environmental samples.](#) Aravindan Santhan, Kuo-Yuan Hwa*, Ravikumar Murugan, Journal of the Taiwan Institute of Chemical Engineers
4. [ZnO/B-g-C3N4 Nanoplatelet/Nanosheet Heterostructures for the Electrochemical Detection of Metol in Real Sample Analysis.](#) M Ravikumar, KY Hwa, A Santhan, S Ibrahim. ACS Applied Nano Materials
5. [Laser-induced reduced graphene oxide for high-performance electrochemical sensors of antipyretic drug in real samples.](#) KY Hwa, R Murugan, SF Tseng, A Santhan, JY Lin. Environmental Science: Nano 11 (3), 951-968
6. [Rational construction of 2D heterostructures: Niobium carbide entangled rGO aerogel for the detection of para nitroaniline isomer in environmental water samples.](#) A Santhan, KY Hwa, M Ravikumar. Process Safety and Environmental Protection 180, 907-922
7. [2D-Graphitic carbon nitride nanosheet/metal nanocomposites for electrochemical sensors of hydroquinone in real sample analysis.](#) R Murugan, KY Hwa, A Santhan. ACS Applied Nano Materials 6 (10), 8550-8563
8. [Laser Induced-Reduced Graphene Oxide for Electrochemical Sensing of Panadol Drug.](#) KYH Ravikumar Murugan, Shih-Feng Tseng, Aravindan Santhan. 2023-Chemistry National Meeting
9. [Electrochemical detection of acetaminophen drug using a glassy carbon electrode modified with a graphene oxide nanosheets.](#) KYH Aravindan Santhan, Murugan Ravikumar. BISC 2022
10. [1, 3–diyne bridged porphyrin dimers via Cu-catalysis: Synthesis, optical properties and application in fullerene binding.](#) M Ravikumar, C Farley, CM Drain, MB Mariyatra, EM Mothi. Journal of

Molecular Structure 1240, 130570

11. [DNA targeting long-chain alkoxy appended tin \(IV\) porphyrin scaffolds: photophysical and antimicrobial PDT investigations](#). M Ravikumar, D Raghav, K Rathinasamy, A Kathiravan, EM Mothi. ACS Applied Bio Materials 1 (5), 1705-1716
12. [Tin \(IV\) Porphyrins Containing \$\beta\$ -Substituted Bromines: Synthesis, Conformations, Electrochemistry and Photophysical Evaluation](#). M Ravikumar, A Kathiravan, A Neels, EM Mothi European Journal of Inorganic Chemistry 2018 (34), 3868-3877

Workshop / Conferences / FDP Attended:

Papers Presented in National/International Conferences:

1. **Ravikumar, M**, Aravindan S, and Kuo-Yuan Hwa-2023 ‘Laser-Induced Reduced Graphene Oxide Nanosheets for Electrochemical Sensors of Nanomole Panadol Drug in Real Sample Analysis (CNM-2023) organized by National University of Kaohsiung, Taiwan.
2. **Ravikumar, M**, Farley, C. Drain, M & Mothi, EM, ‘Bisacetylene linked porphyrin dimers as hosts for fullerene binding: Synthesis, characterization and photophysical studies’ Recent Advances in Chemical Sciences (RACS-2017) organized by Sri Ramakrishna Institute of Technology, Coimbatore.
3. **Ravikumar, M**, Neels, A, Kathiravan, A, Amsaveni, M & Mothi, EM 2016, ‘Heavy atom substituted tin porphyrins as novel photosensitizers: Synthesis, crystal structures, photophysical, electrochemical and DFT studies’, International Conference of Functional Materials (ICFM-2016) organized by PSN College of Engineering and Technology, Tirunelveli. **“Best Paper Award”**
4. **Ravikumar, M & Mothi, EM 2015**, ‘Highly substituted phosphorus(v) porphyrins: attractive targets for PDT’, 10th Mid-Year CRSI- Symposium in chemistry jointly Organized by National Institute of Technology & Bharathidasan University Tiruchirappalli, Tiruchirappalli.