

### Profile of Dr. P.Kalimuthu

- (i) Designation : Assistant Professor
- (ii) Qualification : M.Sc., Ph.D.,
- (iii) Experience : 5 years
- (iv) Specialization : Porphyrin and Perylene Chemistry and Solar Energy Conversion
- (v) Email id : pakalimuthu@gmail.com



(vi) Research Guidance:

Degree	Awarded	Guiding
M.Phil	3	1
Ph.D	-	5

(vii) Publications

Sl. No.	Category	Total	For the period 2010-2016
1.	No. of papers in Edited Volume / Proceedings	10	6
2.	No. of Publications in International and National Journal	9	4

### Selected Publications

Sl. No	Title of the Article	Name of the Journal	I/N	ISBN/ISSN	Vol.	Pages	Date, Month and Year
1.	Substituent Effects for Perylenedicarboxylic anhydrides on the Performance of Dye-Sensitized Solar Cells: The Simpler, the Better.	Chemistry Letters	I	0366-7022	42	450	2013
2.	In-situ Fabrication of meso-Tetrakis(4-sulfonatophenyl)porphyrin Nanostructures with Excitonic Absorption on Glass Substrate	ACS Applied Materials and Interfaces	I	1944-8244	2	3348-3351	2010

3	Nanostructured Aggregates of meso-Tetramesitylporphyrin on Solid Substrate	Langmuir			25	12414 – 12418	2009
4	Leaf like Structured Multilayer Assembly of Dimercaptothiadiazole on Gold Surface	J. Phys. Chem			113	10176 – 10184	2009
5	Optochemical sensing of HCl gas using meso-tetramesitylporphyrin deposited glass plate	Analytica Chimica Acta			627	247-253	2008

(viii) Sponsored Projects

Major Projects handled so far		Major Projects handled during 2010-2015	
Nos.	Financial Outlay	Nos.	Financial Outlay
2	Rs.46.698 lakhs	2	Rs.46.698 lakhs

(ix) Details of Projects (2010-16)

S. No.	Title of the Project	Funding Agency	Duration	Total Amount in lakhs
1.	Design, Synthesis and Aggregation Studies of Cyanoacrylic Acid – Thiophene Linked Porphyrin Sensitizers for Dye Sensitized Solar Cells	DST-SERB	3 years	Rs.25.88
2.	Molecular Design and Synthesis of Push-Pull Type Perylene Dyes for Dye Sensitized Solar Cells	UGC	3 years	Rs.11.818

(x) Seminars/Conferences/Workshops organized (2010-16) : 1

(xi) Seminars/Conferences/Workshops attended (2010-16) : 5

(xii) Awards and Honours : 1

(xiii) Invited talks in National / International Conference (2010-16): 4

(xiv) Visits abroad (2010-16) : Washington State University, Pullman, USA

(xv) Additional responsibilities (2010-16):

- NSS Programme Officer