

**Aditanar College of Arts and Science
Virapandianpatnam – 628216
Tiruchendur
Bio - Data**



Name of the Department : Chemistry (PG)
Name of the faculty member : Dr. A. Antony Muthu Prabhu
Qualification : M.Sc., M.Phil., Ph.D.
Present Designation : Assistant Professor
Vidwan id : 418984
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Email : antonyphdchem@yahoo.com
Gender : Male
Community : BC Nadar
Date of Birth and Age : 27-06-1983
Date of joining : 12-07-2017
Date of Retirement : 11-07-2043

I. Particulars of Educational Qualification

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	Chemistry	2004	S.T. Hindu College	Manonmaniam Sundaranar University,	80.35	I
PG	M.Sc	Chemistry	2006	S.T. Hindu College	Manonmaniam Sundaranar University,	61.16	I
M. Phil	M.Phil	Chemistry	2010	S.T. Hindu College	Manonmaniam Sundaranar University,	58.63	II
Ph.D.	Ph.D.	Chemistry	2012	-----	Annamalai University	-----	-----

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Department of Chemistry, Manonmaniam Sundaranar University	Govt	Guest Lecturer	22.08.2013	30.04.2014		8	10
Department of Chemistry, Manonmaniam Sundaranar University	Govt	Temporary Lecturer	22.07.2014	30.04.2015		9	9
Department of Chemistry, Manonmaniam Sundaranar University	Govt	Temporary Assistant Professor	23.07.2015	30.04.2016		9	8
Department of Chemistry, Manonmaniam Sundaranar University	Govt	Temporary Assistant Professor	01.07.2016	30.11.2016		5	-
Department of Chemistry, Manonmaniam Sundaranar University	Govt	Temporary Assistant Professor	02.01.2017	30.04.2017		4	-
Department of PG Chemistry, Aditanar College of Arts and Science	Aided	Assistant Professor	12.07.2017	Still doing	6	3	6
Total					9	3	3

II Additional Qualification

: **NIL**

NET/SLET

III Title of Ph.D. Thesis

: **Absorption and fluorescence spectral characteristics of selected dye and drug molecules : Effect of solvents, pH and β -cyclodextrin**

IV Faculty/Discipline/Subject in which Ph.D. was awarded

:

List of Publications : (Details Attach separate sheet)
 No. of Candidates Completed Ph.D. under your Guidance : (Details Attach separate sheet) - NIL
 No. of candidates doing Ph.D. under your Guidance : (Details Attach separate sheet) - TWO

V Academic Experience:

VI Administrative/other Experience : One National Level Conference organized (Organized Secretary)

General Knowledge Cell (Committee Members)

VII Other Relevant Information : Tamilnadu State Council for Science and Technology, Chennai, Student Projects Scheme (2021-2022)

List of Publications

Title of paper	Name of the authors	Name of journal	Volume, Issue, Page No, Year	ISSN number	Is it listed in UGC Care list
Formation of Inclusion Complexes of 2-Hydroxypropyl beta-Cyclodextrin with 2-Hydroxychalcone: Experimental and Theoretical Study	J. Allwyn Jeyadurai, P. Muthuselvan, A. Antony Muthu Prabhu , N. Rajendiran and Arish Dasan	Polycyclic Aromatic Compounds	Accepted	1040-6638	Yes
Encapsulation through concern of inter and intramolecular hydrogen	K. Sathiyaseelan and A. Antony Muthu Prabhu	Journal of Molecular Structure	1292 (2023) 136093	0022-2860	Yes

bonding of 2-hydroxybenzoic acid with C-alkyl calix[4]resorcinarenes					
Photophysical, antioxidant, antibacterial and NBO, LOL, ELF analysis of alkyl groups substituted calix[4]resorcinarenes	Kasi Sathiyaseelan, A. Antony Muthu Prabhu and Narayaswamy Rajendiran	Journal of Fluorescence	Accepted	1573-4994	Yes
Investigation of Ag and Ag/Co bimetallic nanoparticles with naproxen-cyclodextrin inclusion complex.	A. Mani, P. Ramasamy, A. Antony Muthu Prabhu and N. Rajendiran	Journal of Molecular Structure	1284 (2023) 135301	0022-2860	Yes
Structural aspects and stability of interactions between phenyl-3,3'-bis(indolyl)methanes and β -cyclodextrin from density functional theory.	A. Antony Muthu Prabhu , Fatiha Madi, Nouar Leila, G.S. Suresh Kumar and K. Sathiyaseelan	Polycyclic Aromatic Compounds	43 (2023) 5276 - 5298	1040-6638	Yes
Equilibrium Constant, Concentrations Study of <i>p</i> -Aminobenzoic Acid in Anionic, Cationic and Non-ionic Surfactants.	A. Antony Muthu Prabhu , N. Rajendiran, K. Sathiyaseelan,	Science Journal of Analytical Chemistry	2021; 9(3): 68-76	2376-8053	Yes
Spectral and theoretical investigation of inclusion complex between cinnamic acid and hydroxycinnamic acids with native cyclodextrins.	N. Rajendiran*, A. Antony Muthu Prabhu [#] , T. Mohandoss, J. Thulasidhasan, R. Baskaran	Polycyclic Aromatic Compounds	42 (2022) 3563-3585	1040-6638	Yes
Inclusion Complexation of Benzanilide and Fast Violet B with β -cyclodextrin - A Theoretical Approach	A. Antony Muthu Prabhu	Organic Chemistry Plus	1 (2020) 23-28	2717-5960	Yes
Effect of natural and modified cyclodextrins on the excited state proton transfer of 7-hydroxy-4-methylcoumarin	A. Antony Muthu Prabhu [*] , Madi Fatiha, B. Sivaraman, Maria Josefa Yanez-Gascon, Horacio Perez-Sanchez	Journal of Molecular Liquids	268 (2018) 911 - 924	0167 7322	Yes

Investigation of 3D contour map and intermolecular interaction of dopamine with β -cyclodextrin and 2-hydroxypropyl β -cyclodextrin	A. Antony Muthu Prabhu* , Madi Fatiha, Nouar Leila, T. Anantha raj, Inmaculada Navarro-González, Maria Jesús Periago, Maria Josefa Yáñez-Gascón, Horacio Pérez-Sánchez	Journal of Solution Chemistry	2018, 47 & 409-429	1572-8927	Yes
Computational study on the encapsulation of <i>o</i> -phenylenediamine, <i>m</i> -phenylenediamine and <i>p</i> -phenylenediamine into the host cucurbit[7]uril	A. Antony Muthu Prabhu	Journal of Indian chemical society	March 2017, 94 & 279-287	2667-2847	Yes
Encapsulation of phenylalanine and 3,4-dihydroxyphenylalanine into β -cyclodextrin: spectral and molecular modeling studies	A. Antony Muthu Prabhu* , G.S. Suresh Kumar, Madi Fatiha, S. Sorimuthu, M. Sundar raj,	Journal of Molecular Structure	January 2015, 1079 & 370-382	0022-2860	Yes
Encapsulation of 3,5-dihydroxybenzoic acid and 3,4,5-trihydroxybenzoic acid by α - and β -cyclodextrins: Spectral and theoretical studies	N. Rajendiran, M. Jude Jenita, A. Antony Muthu Prabhu	Journal of Indian Chemical Society	September 2014, 91 & 1711-1730	2667-2847	Yes
Studies on the Self-catalysed Knoevenagel Condensation, Characterization, DPPH Radical Scavenging Activity, Cytotoxicity and Molecular Properties of 5-Arylidene-2,2-dimethyl-1,3-dioxane-4,6-diones using Single Crystal XRD and DFT Techniques	G.S. Suresh Kumar*, A. Antony Muthu Prabhu , N. Bhuvanesh,	Journal of Molecular Structure	October 2014, 1075 & 166-177	0022-2860	Yes
Molecular Structure Investigation of Organic Cocrystals of 1,10-Phenanthroline-5,6-dione	G.S. Suresh Kumar*, A. Antony Muthu Prabhu , N.	Spectrochimica Acta A	November 2014,	1386-1425	Yes

with Aryloxyacetic acid: A Combined Experimental and Theoretical Study	Bhuvanesh, X.A.V. Ronica, S. Kumaresan		132 & 465-476		
Inclusion complexation of Phenoxyaliphatic acid derivatives of aryl-3,3'-bis(indolyl)methanes with β -cyclodextrin	A. Antony Muthu Prabhu* , G. S. Suresh Kumar	Journal of Fluorescence	March 2014, 24 & 925-931	1573-4994	Yes
<i>In situ</i> Bronsted-Lowry acid catalyzed syntheses, characterization, single crystal XRD, electronic spectral, DPPH radical scavenging, and DNA protection studies of aryl-3,3'-bis(indolyl)methanes	G.S. Suresh Kumar, A. Antony Muthu Prabhu , P.G. Seethalakshmi, N. Bhuvanesh, S. Kumaresan*	Spectrochimica Acta A	April 2014 123, & 249-256	1386-1425	Yes
Self-catalyzed Syntheses, Structural Characterization, DPPH Radical Scavenging, Cytotoxicity and DFT Studies of Phenoxyaliphatic acids of 1,8-dioxo-octahydroxanthene derivatives	G.S. Suresh Kumar, A. Antony Muthu Prabhu , P.G. Seethalakshmi, N. Bhuvanesh, S. Kumaresan	Journal of Molecular Structure	February 2014, 1059 & 51-60	0022-2860	Yes
Inclusion complex formation of omeprazole with hydroxypropyl CDs.	M. Jude Jenita, G. Venkatesh, A. Antony Muthu Prabhu , N. Rajendiran	Journal of Indian Chemical Society	August 2013, 90 & 1195-1206	2667-2847	Yes
Computational study of inclusion complexation of sulphanilamide drugs with β -cyclodextrin.	A. Antony Muthu Prabhu , N. Rajendiran*	Journal of Indian Chemical Society	August 2013, 90 & 1127-1136	2667-2847	Yes
Syntheses of Phenoxyalkyl esters of 3,3'-bis(indolyl)methanes and Studies on their Molecular Properties from Single Crystal XRD and DFT techniques	G.S. Suresh Kumar, A. Antony Muthu Prabhu , S. Jegan Jennieffer, N. Bhuvanesh, P. Thomas Muthiah, S. Kumaresan*	Journal of Molecular Structure	September 2013, 1047 & 109-120	0022-2860	Yes

An efficient one pot syntheses of aryl-3,3'-bis(indolyl)methanes and studies on their spectral characteristics, DPPH radical scavenging, antimicrobial, cytotoxicity and antituberculosis activity	G.S. Suresh Kumar, S. Kumaresan*, A. Antony Muthu Prabhu , N. Bhuvanesh, P.G. Seethalakshmi	Spectrochimica Acta A	January 2013, 101A & 254-263	1386-1425	Yes
Theoretical study of inclusion complexatin of tricyclic antidepressant drugs with β -cyclodextrin	A. Antony Muthu Prabhu , N. Rajendiran*	Indian Journal of Chemistry	December 2012, 51A & 1686-1694		Yes
Encapsulation of labetalol, pseudoephedrine in β -cyclodextrin cavity: Spectral and molecular modeling studies	A. Antony Muthu Prabhu , N. Rajendiran*	Journal of Fluorescence	July 2012, 22 & 1461-1474	1573-4994	Yes
Dual fluorescence of Fast Blue RR Fast Violet B: Effect of Solvents, Cyclodextrin Complexation	A. Antony Muthu Prabhu , R. K. Sankaranarayanan, G. Venkatesh and N. Rajendiran*	Journal of Physical Chemistry (B)	June 2012, 116 & 9061-9074		Yes
Encapsulation of vanillylamine by native and modified β -cyclodextrin cavity: Spectral and computational studies	T. Sivasankar, A. Antony Muthu Prabhu , M. Karthick and N. Rajendiran*	Journal of Molecular Structure	November 2012, 1028 & 57-67	0022-2860	Yes
Excimer formation in inclusion complexes of β -cyclodextrin with salbutamol, sotalol and atenolol: Spectral and molecular modeling studies	A. Antony Muthu Prabhu , V.K. Subramanian and N. Rajendiran*	Spectrochimica Acta A	October 2012, 96 & 95-107	1386-1425	Yes
Absorption and fluorescence spectral characteristics of norepinephrine, epinephrine, isoprenaline, methyl dopa, terbutaline and orciprenaline drugs	S. Siva, G. Venkatesh, A. Antony Muthu Prabhu , R.K.Sankaranarayanan and N. Rajendiran*	Physics and Chemistry of Liquids	December 2011, 50 & 434-452		Yes

Dual fluorescence of dothiepin, doxepin drugs - effect of solvents and β -cyclodextrin	R.K. Sankaranarayanan, S. Siva, G. Venkatesh, A. Antony Muthu Prabhu , and N. Rajendiran*	Journal of Molecular Liquids	July 2011, 161 & 107–114	0167 7322	Yes
Azonium-ammonium tautomerism and assembly behaviour of inclusion complexes of β -cyclodextrin with fat brown -RR and 4-amino azobenzene	G. Venkatesh, A. Antony Muthu Prabhu , N. Rajendiran	Journal of fluorescence	February 2011, 21 & 1485-1497	1573-4994	Yes
Spectral characteristics of sulfadiazine and sulfisomidine: Effect of solvents, pH and β -cyclodextrin	J. Premakumari, G. Allan Gnana Roy, A. Antony Muthu Prabhu , G. Venkatesh, V. K. Subramanian and N. Rajendiran*	Physics and Chemistry of liquids	January 2011, 49 & 108-132		Yes
Effect of solvents and pH on β -CD Inclusion complexation of 2,4-dihydroxyazobenzene and 4-hydroxy azobenzene	J. Premakumari, G. Allan Gnana Roy, A. Antony Muthu Prabhu , G. Venkatesh, V. K. Subramanian and N. Rajendiran*	Journal of Solution Chemistry	January 2011, 40 & 327-347	1572-8927	Yes
Unusual spectral shifts of imipramine and carbamazepine drugs	A. Antony Muthu Prabhu , G. Venkatesh and N. Rajendiran	Journal of Fluorescence	May 2010, 20 & 1199-1210	1573-4994	Yes
Spectral Characteristics of Sulfa Drugs: Effect of Solvents, pH and β -Cyclodextrin	A. Antony Muthu Prabhu , G. Venkatesh, N. Rajendiran	Journal of Solution Chemistry	July 2010, 39 & 1061-1086	1572-8927	Yes
Photophysical behaviour of 2-amino-3-benzyloxy pyridine and 2-amino pyridine	A. Antony Muthu Prabhu , S. Siva, R.K. Sankaranarayanan, V.K. Subramanian, N Rajendiran*	Russian J Physical Chemistry (A)	November 2010, 84 & 2270-2283		Yes

Azo-Hydrazo Tautomerism in 1-phenyazo-2-naphthol dyes in different solvents, pH and β -cyclodextrin.	A. Antony Muthu Prabhu, G. Venkatesh, N. Rajendiran	Journal of Fluorescence	March 2010, 20& 961-972	1573-4994	Yes
Inclusion complexation of 3,4,5-trihydroxybenzoic acid with β -cyclodextrin at different pH	R.K. Sankaranarayanan, S. Siva, A. Antony Muthu Prabhu, N Rajendiran*	Journal of Inclusion Phenomena and Macrocyclic Chemistry	January 2010, 67 & 461-470		Yes
Azonium-Ammonium Tautomerism and assembly behaviour of inclusion complexes of β -cyclodextrin with 4- amino, 2',3-dimethylazobenzene and 4-amino azobenzene.	A. Antony Muthu Prabhu, V.K. Subramanian, R.K. Sankaranarayanan, S. Siva, N Rajendiran*	Indian Journal of Chemistry	April 2010, 49A & 407-417		Yes
Intra molecular proton transfer effects on 2,6-diaminopyridine	A. Antony Muthu Prabhu, S. Siva, R. K. Sankaranarayanan, N. Rajendiran*	Journal of Fluorescence	August 2009, 20 & 43-54	1573-4994	Yes
Inclusion complexation of 3,5-dihydroxybenzoic acid with β -cyclodextrin at different pH.	S. Siva, R.K. Sankaranarayanan, A. Antony Muthu Prabhu, V.K. Subramanian, N Rajendiran*	Indian Journal of Chemistry	November 2009, 48A & 1515-1521		Yes
Unusual spectral shifts on fast violet-B and benzanilide: Effect of solvents, pH and β -cyclodextrin	A. Antony Muthu Prabhu, R.K. Sankaranarayanan, S. Siva, N. Rajendiran*	Spectrochimica Acta A	October 2009, 74A & 484-497	1386-1425	Yes

No. of candidates doing Ph.D. under your Guidance

S. No.	Name of candidate	Thesis title	Date of registration and registration Number	Name of University
1	K. Sathiyaseelan	Developments, Synthesis, Characterization and Host-guest Complexation studies of Supramolecular Host Molecules with Some Selected Guest Molecules	16.07.2019 & 19212022031004	Manonmaniam Sundaranar University
2	K. Sivasaranya	Synthesis, characterization and Biological Activity of Coumarin Derivatives	17.07.2019 & 19222022032005	Manonmaniam Sundaranar University