

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



Name of the Department : CHEMISTRY

Name of the faculty member : Dr. A. RAMDASS

Qualification : M.Sc. M.Phil. Ph.D.

Present Designation : Assistant Professor (Guest Lecture)

Vidwan id : 419223

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Email : ramdasschem@gmail.com

Gender : Male

Community : SC

Date of Birth and Age : 14.01.1984 & 39

Date of joining : 20.07.2022

Date of Retirement : Nil

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	Aditanar College of Arts & Science, Tiruchendur	Manonmaniam Sundaranar University, Tirunelveli	67.85%	First
PG	M.Sc	Chemistry	2007	Sri Kumara Gurpara Swamigal Arts College, Srivaikuntam	Manonmaniam Sundaranar University, Tirunelveli	62.50%	First
M. Phil	M.Phil	Chemistry	2008	-	School of Chemistry, Madurai Kamaraj University, Madurai	73.89%	First
Ph.D.	Ph.D.	Chemistry	2015	-	School of Chemistry, Madurai Kamaraj University, Madurai	-	-

II Additional Qualification : **Nil**
NET/SLET

III Title of Ph.D. Thesis : Photophysical and Molecular Recognition Studies Using Luminescent Rhenium(I)-Polypyridyl Complexes

IV Faculty/Discipline/Subject in which Ph.D. was awarded : **Chemistry**
 List of Publications : (Details Attach separate sheet)
 No. of Candidates Completed Ph.D. under your Guidance : Nil
 No. of candidates doing Ph.D. under your Guidance : Nil

V Academic Experience:

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Aditanar College of Arts & Science, Tiruchendur	Aided	Assistant Professor (FDP Position)	28.10.2015	26.10.2018	3	-	-
Total					3		

VI Administrative/other Experience : Nil

VII Other Relevant Information : Nil

Book chapters or Papers published in national/international conference/Seminar/ workshop proceedings

Title of the Chapter/paper	Name of the authors	Name of the conference	National/ International	Year of publication	Publisher/Affiliating Institute at the time of Publication
Luminescent Nanoaggregates of Tetra-rhenium(I) Metallacycles With Their Application as Sensor for Antibiotics” presented in Advanced Materials and Their Applications	A. Ramdass, V. Sathish, P. Thanasekaran.	Advanced Materials and Their Applications	International Conference	January 25, 2023.	Department of Chemistry, Aditanar College of Arts and Science, Tiruchendur.
Monometallic Rhenium(I) Complexes as Sensors for Anions	A. Ramdass, V. Sathish, S. Rajagopal.	Chennai Chemistry Conference	National Conference	February 8-10, 2013.	Central Leather Research Institute (CLRI), Chennai.
Luminescence Quenching and Binding Studies of Rhenium(I)-Based Rectangles with Quinones	A. Ramdass, E. Rajkumar, V. Sathish, P. Thanasekaran, S. Rajagopal.	National Symposium of Radiation and Photochemistry (NSRP-2009)	National Conference	March 12-14, 2009.	Kumaun University, Nainital.
Luminescence Quenching and Binding Studies of Tetranuclear Rhenium(I) Complex with Quinones	A. Ramdass, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	Emerging Trends in Chemistry (ETC-2)	National Conference	July 24-25, 2008.	C.P.A College, Bodinayakanur,

Research papers published in the Journals:

Title of paper	Name of the authors	Name of journal	Volume, Issue, Page No, Year	ISSN number
Structural Topologies and Properties of Neutral Discrete Organic Macromolecules	A. Ramdass, V. Sathish, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	Encyclopedia of Nanoscience and Nanotechnology, Edited by H. S. Nalwa, American Scientific Publishers, One Chapter (Accepted)	--	--
Structural behavior of rhenium complexes in fluoride sensing: a spectroscopic and computational study.	M. Velayudham, A. Ramdass, V. Sathish, S. Rajagopal.	StructuralChemistry	2022, 33, 1041–1053. (I.F: 1.795)	1572-9001

AIE or AIE(P)E-active transition metal complexes for highly sensitive detection of nitroaromatic explosives.	A. Ramdass, V. Sathish, P. Thanasekaran.	<i>Results in Chemistry</i>	2022, 4, 100337. (I.F: 2.21)	2211-7156
Utilization of Heavy Metal Complexes As Phosphorogenic Sensors for the Detection of Amino Acids	A. Ramdass, V. Sathish, P. Thanasekaran.	Oriental Journal of Chemistry	2018, 34, 01-23. (I.F: 0.43)	2231-5039
Phosphorescence "Turn-On" Sensing of Anions by Rhenium(I) Schiff-base Complexes.	A. Ramdass, V. Sathish, M. Velayudham, P. Thanasekaran, S. Rajagopal.	ChemistrySelect	2018, 3, 2277–2285. (I.F: 2.307)	2365-6549
Aggregation Induced Emission Enhancement (AIEE) of Anthracene based Schiff Base Compounds and their Applications as Sensor for BSA and Optical Cell Imaging.	D. Simon, C.-H. Chang, C.-L. Chen, A. Mathavan, A. Ramdass, V. Sathish, P. Thanasekaran, W.-S. Li, S. Rajagopal.	Luminescence	2018, 33, 780–789. (I.F: 2.613)	1522-7243
Recent Developments on Optical and Electrochemical Sensing of Copper(II) Ion Based on Transition Metal Complexes.	A. Ramdass, V. Sathish, E. Babu, M. Velayudham, P. Thanasekaran, S. Rajagopal.	Coordination Chemistry Reviews	2017, 343, 278–307. (I.F: 24.833)	1873-3840
Development of luminescent sensors based on transition metal complexes for the detection of nitroexplosives.	V. Sathish, A. Ramdass, M. Velayudham, Kuang-Lieh Lu, P. Thanasekaran, S. Rajagopal.	Dalton Transactions	2017, 46, 16738–16769. (I.F: 4.569)	1477-9234
Luminescent sensor for copper(II) ion based on imine functionalized monometallic rhenium(I) complexes.	A. Ramdass, V. Sathish, M. Velayudham, P. Thanasekaran, S. Umapathy, S. Rajagopal.	Sensors & Actuators, B: Chemical	2017, 240, 1216–1225. (I.F: 9.221)	1873-3077
Modulation of catalytic activity by ligand oxides in the sulfoxidation of phenylmercaptoacetic acids by oxo(salen)chromium(V) complexes.	P. Subramaniam, S. Anbarasan, S. Sugirtha Devi, A. Ramdass.	Polyhedron	2016, 119, 14–22. (I.F: 2.975)	1873-3719
Sensing of insulin fibrillation using alkoxy-bridged binuclear rhenium(I) complexes.	V. Sathish, A. Ramdass, Z.-Z. Lu, M. Velayudham, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	Inorganic Chemistry Communications	2016, 73, 49–51. (I.F: 3.428)	1879-0259
Synthesis and Photophysical Properties of Rhenium(I)-alkynyl Molecular Rectangles.	A. Ramdass, V. Sathish, Bala. Manimaran, P. Thanasekaran, S. Rajagopal.	Oriental Journal of Chemistry	2016, 32, 1859–1873. (I.F: 0.43)	2231-5039
Label Free Luminescence Strategy for Sensitive Detection of ATP using Aptamer-Ru(II) complexes.	E. Babu, P. Muthu Mareeswaran, A. Ramdass, P. Ramesh, S. Rajagopal.	Journal of Luminescence	2016, 175, 267–273. (I.F: 4.171)	1872-7883

Electron transfer reactions of osmium(II) complexes with phenols and phenolic acids.	A. Rajeswari, A. Ramdass, P. Muthu Mareeswaran, S. Rajagopal.	The Journal of Molecular Structure	2016, <i>1115</i> , 75–84. (I.F: 3.841)	1872- 8014
Electron transfer studies of ruthenium(II) complexes with biologically important phenolic acids and tyrosine.	A. Rajeswari, A. Ramdass, P. Muthu Mareeswaran, S. Rajagopal.	Journal of Fluorescence	2016, <i>26</i> , 531–543. (I.F: 2.525)	1573- 4994
Electron transfer reactions of ruthenium(II) complexes with polyphenolic acids in micelles.	A. Rajeswari, A. Ramdass, P. Muthu Mareeswaran, S. Rajagopal.	Journal of Luminescence	2016, <i>170</i> , 8–16. (I.F: 4.171)	1872- 7883
Micellar effect on the photophysics of heteroleptic ruthenium(II)-phenanthrolinedisulfonato complexes.	S. Ramanathan, A. Ramdass, E. Rajkumar, S. Rajagopal.	Luminescence	2016, <i>31</i> , 30–37. (I.F: 2.613)	1522- 7243
Aggregation Induced Emission Aggregation-Induced Emission (AIE) Characteristics Based on Transition Metal Complexes–An Overview (<i>Highlighted by Science Direct - Top 25 most downloaded Articles in 2015-2016.</i> http://www.journals.elsevier.com/journal-of-photochemistry-and-photobiology-c-photochemistry-reviews/most-downloaded-articles/)	V. Sathish, A. Ramdass, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	Journal of Photochemistry and Photobiology C: Photochemistry Reviews	2015, <i>23</i> , 25–44. (I.F: 17.176)	1873- 2739
Synthesis and Characterization of Monometallic Rhenium(I) Complexes and their Application as Selective Sensor for Copper(II) ion.	A. Ramdass, V. Sathish, M. Velayudham, P. Thanasekaran, S. Umopathy, S. Rajagopal.	RSC Advances	2015, <i>5</i> , 38479– 38488. (I.F: 4.036)	2046- 2069
Selective H ₂ O ₂ Oxidation of Organic Sulfides to Sulfoxides Catalyzed by Cobalt(III)-Salen Ion.	A. Mary Imelda Jayaseeli, A. Ramdass, S. Rajagopal.	Polyhedron	2015, <i>100</i> , 59–66. (I.F: 2.975)	1873- 3719
A Spectroscopy approach for the study of the interaction of oxovanadium(IV)-salen complexes with proteins.	A. Mathavan, A. Ramdass, S. Rajagopal.	Journal of Fluorescence	2015, <i>25</i> , 1141–1149. (I.F: 2.525)	1573- 4994
Kinetic Study of the Oxovanadium(IV)-Salen Catalyzed H ₂ O ₂ Oxidation of Phenols.	A. Mathavan, A. Ramdass, S. Rajagopal.	Transition Metal Chemistry	2015, <i>40</i> , 355–362. (I.F: 2.266)	1572- 901X 4285

Oxovanadium(IV)-Salen Ion Catalyzed H ₂ O ₂ Oxidation of Tertiary Amines to N-Oxides–Critical Role of Acetate Ion as External Axial Ligand.	A. Mathavan, A. Ramdass, M. Ramachandran, S. Rajagopal.	International Journal of Chemical Kinetics	2015, 47, 315–326. (I.F: 1.502)	1097-4601
Photoinduced Electron Transfer Reactions of Ruthenium(II) Phenanthroline Complexes with Dimethylaniline in Aqueous and Micellar Media.	S. Ramanathan, A. Ramdass, E. Rajkumar, S. Rajagopal.	Journal of Fluorescence	2015, 25, 147–157. (I.F: 2.525)	1573-4994
Alkoxy Bridged Binuclear Rhenium (I) Complexes as a Potential Sensor for β -Amyloid Aggregation.	V. Sathish, E. Babu, A. Ramdass, Z.-Z. Lu, M. Velayudham, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	Talanta	2014, 130, 274–279. (I.F: 6.556)	1873-3573
Ruthenium nanocatalysis on redox reactions.	P. Veerakumar, A. Ramdass, S. Rajagopal.	Journal of Nanoscience and Nanotechnology	2013, 13, 4761–4786. (I.F: 1.354)	1533-4899
Monometallic Rhenium(I) complexes as sensors for anions.	A. Ramdass, V. Sathish, M. Velayudham, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	Inorganic Chemistry Communications	2013, 35, 186–191. (I.F: 3.428)	1879-0259
Aggregation Induced Emission Enhancement in Alkoxy-Bridged Binuclear Rhenium(I) Complexes–Application as Sensor for Explosives and Interaction with Microheterogeneous Media.	V. Sathish, A. Ramdass, Z.-Z. Lu, M. Velayudham, P. Thanasekaran, K.-L. Lu, S. Rajagopal.	The Journal of Physical Chemistry B	2013, 117, 14358–14366. (I.F: 3.466)	1520-5207
Photoswitchable Alkoxy-Bridged Binuclear Rhenium(I) Complexes–A Potential Probe for sensing of Biomolecules and Optical Imaging.	V. Sathish, A. Ramdass, E. Babu, Z.-Z. Lu, T. T. Chang, M. Velayudham, P. Thanasekaran, K.-L. Lu, W. S. Li, S. Rajagopal.	RSC Advances	2013, 3, 18557–18566. (I.F: 4.036)	2046-2069