

Name : M. Rajasekaran
Designation : Assistant Professor
Department : Chemistry
Date of Joining : 14/08/2013
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Educational Qualification: M.Sc., Ph.D.,

Degree	Subject	College / Uuniversity & Place	Year Completed
B.Sc	Chemistry	Thiagarajar College, Madurai	2003
M.Sc	Chemistry	Vivekananda College, Madurai	2005
Ph.D.	Chemistry	Madurai Kamaraj University, Madurai	2011

ACADEMIC EXPERIENCE IN OTHER INSTITUTIONS:

Assisted practical classes for PG and UG degree (chemistry) students as part of teaching assistantship for one year in Vivekananda College, Tiruvedakam west at Madurai (2005-2006).

Assisted in teaching UG Chemistry classes in the Yadava College for ten months (July 2011-April 2012).

Assisted in teaching Engineering Chemistry classes in the PSY Engineering College at Sivagangai Dt. (April 2012- Jan 2013).

Specialisation in Teaching:

1. Inorganic chemistry
2. Bioinorganic chemistry
3. Nanochemistry
4. Electrochemistry
5. Photochemistry
6. Applied chemistry
7. Analytical chemistry

Specialisation in Research:

Bioinorganic Chemistry – Coordination chemistry
Nanomaterial - Inorganic and Organic nanoparticles

Research Interests:

1. Nanotechnology
2. Inorganic Chemistry
3. Biological studies like gel electrophoresis , DNA binding and cleavage studies

Technical Skills:

Electron Spin Resonance (*ESR-JEOL: [JES-FA200](#)*)
UV-Vis spectrophotometer (*JASCO V-550, Shimadzu UV-1600 & Varian Cary 50*)
FT-IR spectrophotometer (*JASCO 410, Shimadzu FT-IR-8400s*)
Viscometer (*Brook-field DV-II + pro*)
Cyclic Voltammetry (*BAS CV-50W model electrochemical analyzer*)
Spectrofluorometer (*JASCO FP-6300*)
Spectropolarimeter (*JASCO J-810*) (*DNA and Protein interaction*)
Electrophoresis (*DYY-6C power supplier*)

Publications:

Books:

“Environmental studies” (chapter 3 biodiversity is written by me) ISBN:978-81-929458-1-1 published by Sourashtra College, Madurai.

Articles Published in International Journals:

S.No	Name of the Journal (Nat'l / Int'l)	Paper Title	ISSN	Month & Year
1	<i>Journal of NanoScience and NanoTechnology</i> (indiasciencetech)	<i>Studies on The Enhanced Biological Applications of PVA Loaded Nanocurcumin</i>	2279-0381	Feb 2014
2	<i>Journal of NanoScience and NanoTechnology</i> (American Scientific Publishers)	<i>A Lucid Build-Up of Nanostructured Curcumin, Quercetin and Their Interaction with DNA</i>	1533-4880	July 2014
3	<i>Advanced Materials Letters</i>	<i>pH responsive curcumin/ ZnO nanocomposite for drug delivery</i>	0976-3961	March 2015
4	<u>Journal of Coordination Chemistry</u>	<i>Biological evaluation of redox stable cisplatin/Cu(II)-DNA adducts as potential anticancer agents</i>	1029-0389	2016

Conference / Seminar Presentations:

1. State level Workshop on Microscale Experiments in physical chemistry, V.V. Vaniaperumal College For Women, Virudhunagar on 29/01/2015.
2. National Conference On Recent Developments In Chemistry, SBK College, Aruppukottai on 13 &14/02/2015.
3. Modern Trends In Chemistry (MTC-21), Vivekananda College, Madurai on 28/03/2015.

Paper presented in national/ international conferences:

1. Synthesis, characterization and DNA binding studies of cisplatin analogous nanorod metal complexes, **M. Rajasekaran**, J. Annaraj and PR. Athappan. *National Seminar on Nanostructured Materials and Applications*, (NSNMA-2011), Madurai Kamaraj University, Madurai.

2. Design and development of bilayer dosage form containing multivitamin and minerals and their controlled release, L. Ramanathan, **M. Rajasekaran** and PR. Athappan. *Recent Advances in Inorganic and Nano Chemistry-2010*, (RAIN-2010), Madurai Kamaraj University, Madurai.
3. Synthesis of nanostructured organic drugs and their DNA binding, **M. Rajasekaran**, L. Ramanathan and PR. Athappan. *12th International Symposium on Inorganic Ring Systems (IRIS-12)*, Goa, Aug 16-21, 2009.
4. DNA binding studies of Co(II) and Ni(II) complexes containing natural drugs, **M. Rajasekaran** and PR. Athappan. *International Conference on Coordination and Organometallic Chemistry (ICCO-2009)*, Bharathiar University, Coimbatore, March 19 & 20, 2009.
5. Synthesis, characterization of tetraaza ligand metal complexes and its application, **M. Rajasekaran**, Leeju and PR. Athappan. *International Conference on Materials for the New Millennium (MAT con 2010) Cochin University of Science and Technology, Kochi, Kerala, India, 11-13 January 2010*.
6. Organized an one day intercollegiate symposium on, *Modern Trends in Chemistry, MTC-6* as lecturer in chemistry, PG and Research Department of Chemistry, Vivekananda College, Madurai, 4th January 2006.

Lectures / Talks given:

1. Delivered a special lecture on *“Nanotechnology-nanochemistry”* in EMG yadava college at Madurai (2015).
2. Delivered a special lecture on *“Pollution removed by chemicals”* (Masu agatrum vethiporul) in **All India Radio** at Madurai (2011).
3. Delivered a special lecture on *“LaTeX application in Chemistry”* in **PSY Engineering College** at Sivagangai Dt. (2012).

Attended Orientation/Refresher/FDP/Other Programme

S.No.	Topic	Orientation/Refresher/FDP	Name of the College/University	Date/Period
1	FACULTY TRAINING AND MOTIVATION PROGRAM	FDP	CSIR-CECRI, KARAIKUDI	8/09/2014 to 10/09/2014
2	Management of Self- A Holistic approach	One Day Faculty Development Programme	SCAAN & IQAC Sourashtra College, Madurai	29/08/2017
3	104 TH ORIENTATION PROGRAMME	ORIENTATION PROGRAMME	BHARATHIAR UNIVERSITY	06/11/2014 to 03/12/2014

Awards / Fellowships:

UGC-JRF -Meritorious Student Fellowship (2008-2011)

Other activities / information / academic credentials you would like to mention:

1. Additional Examiner in the Board of Chemistry - Major & Ancillary - Madurai Kamaraj University, Madurai
2. Examiner - Practical Examinations in various autonomous colleges and Madurai Kamaraj University, Madurai