

CURRICULUM VITAE

Name : Dr. S.JOHNSON RAJA
Designation : Assistant Professor
Department : Chemistry
Date of Joining : 25th June 2019
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Educational Qualifications

| DEGREE | SUBJECT | COLLEGE / UNIVERSITY & PLACE | YEAR COMPLETED |
|--------|-----------|------------------------------|----------------|
| B.Sc., | Chemistry | S.R.N.M.College, Sattur | 1999 |
| M.Sc., | Chemistry | VHNSN College, Virudhunagar | 2003 |
| Ph.D. | Chemistry | VHNSN College, Virudhunagar | 2007 |

Specialization in Teaching

- Inorganic Chemistry
- Organic Chemistry
- General Chemistry

Specilisation in Research

: Inorganic Chemistry

Research Interests

: Co-ordination Chemistry; Bio-Inorganic Chemistry

Other Work Experience

| Designation | Institution / Company | Year-From(month/year) To (month/year) |
|---------------------|---------------------------------------------------------|------------------------------------------|
| Associate Professor | P.S.R. Engineering College, Sivakasi | August 2012 to June 2019 |
| Associate Professor | Raja College of Engineering & Technology, Madurai | August 2010 to August 2012 |
| Lecturer | National Engineering College, K.R.Nagar, Kovilpatti. | June 2007 to June 2010 |
| Lecturer | VHNSN College, Virudhunagar | Feb 2007 to April 2007 |
| Part-time Lecturer | VHNSN College, Virudhunagar | 2004-2005 |

Membership in Professional Bodies:

Life member & Fellow in Indian Chemical Society

Awards / Fellowships:

Tamilnadu State Government Research Fellowship

RECOGNIZED SUPERVISOR

| S. No. | Name of the University |
|--------|-------------------------------------------------------|
| 1. | Manonmanium Sundarnar University, Tirunelveli 627 012 |
| 2. | Anna University, Chennai 600 025 |
| 3. | Bharathiar University, Coimbatore 641 046 |

ACTING AS A SUPERVISOR

- Ph.D., completed : 1
- Ph.D., pursuing : 2

CO-ORDINATOR

INSPIRE Internship Science Camp

Ref. No. : DST/INSPIRE

Grant : 9,75,000/-

Received

Date : 07.10.2013– 11.10.2013

Venue : P.S.R. Engineering College, Sivakasi- 626 140

Book : **Edited** Proceedings of the Second National conference on “Pyro Tech - 2013” organized by Petroleum and Explosives Safety Organization (PESO), Ministry of Explosives, Government of India at Sivakasi, Tamil Nadu on 22.11.2013 & 23.11.2013

Book : **Fire Works Production and Safety**, Dr.P.Pitchipoo, Dr.P.marichamy,
Chapter **Dr. S.Johnson Raja**, Shanlax Publication, (2019)

Publications : Annexure – I

Conferences / : Annexure – II
Seminars /

GUEST LECTURE

1. Delivered a special lecture on “**Nano Chemistry in metal complexes**” Organized by the Department of Chemistry, S.R.N.M College, Sattur on 8th October 2014.
2. Delivered a **guest lecture** on “**Nanotechnology in Chemistry**” organized by Department of Chemistry, Sri Kaliswari College, Sivakasi on 7th January 2015.

PERSONAL DETAILS

Name : Dr. S.Johnson Raja

Father’s Name : T.Samuelraj

Date of Birth : 08.05.1979

Sex : Male

Religion : Christian

Language Known : Tamil, English

Marital Status : Married

Computer Skills : MS-office and Chem-draw

Practical Experience : UV-Visible (Shimadzu UV-1601 & UV-1800)
Spectrophotometer, Submarine Gel electrophoresis

Annexure I
LIST OF PUBLICATIONS

1. Metal Complexes Of Novel Schiff Base Containing Isatin: Characterization, Antimicrobial, Antioxidant And Catalytic Activity Study” M.Vairalakshmi S.Venkateshwari, R.Ramya, R.Princess and S.Johnson Raja, *Asian J Pharm Clin Res*, **12(8)**,(2019) 206-210
2. Novel Water-Soluble Mixed Ligand Cu (II), Zn (II), Ni (II) and Co (II) Complexes: Efficient Antimicrobial Agent, Radical Scavenger and Catalyst for Hydroxylation of Phenol, M.Vairalakshmi, R.Princess, and **S.Johnson Raja**, *Int. j. sci. basic appl. Res.*, **9 (6)**,(2019) 605-620
3. Synthesis and structural characterization of metal complexes bearing benzimidazole moiety as ligand: DNA Binding and Antioxidant Activity, B.Kokila Rani, **S.Johnson Raja** and A. Suman, *Res. J. Chem. Environ.*, **23 (3)**, (2019), 26-35
4. Synthesis, Structural Elucidation, Catalytic, Antibacterial And Antioxidant Activity of Thiophene Derived Mixed Ligand Metal Complexes, M.Vairalakshmi, R.Princess, B.Kokila Rani and **S.Johnson Raja**, *J. Chil. Chem. Soc.*, **63(1)**,(2018) 3844-3849
5. Synthesis, spectroscopic characterization, analgesic, and antimicrobial activities of Co(II), Ni(II), and Cu(II) complexes of 2-[N,N-bis-(3,5-dimethyl-pyrazolyl-1-methyl)]aminothiazole, M.Kalanithi, M. Rajarajan, P. Tharmaraj, **S. Johnson Raja** *Medicinal Chemistry Research*, **24 (4)**,(2015) 1578-1585 (Impact Factor: 1.612)
6. Synthesis, Spectral Characterization, Antimicrobial Screening and DNA Binding, Cleavage Studies of Transition Metal Complexes of Heterocyclic Ligand Derived from 4-Aminoantipyrine and 2-Mercaptobenzimidazole, P.Saravana Bhava, P.Tharmaraj, **S.Johnson Raja**, *International Journal of Innovative Research & Development*, **2**, (2013) 378-396
7. Synthesis and characterization of VO(II), Co(II), Ni(II), Cu(II) and Zn(II) complexes of chromone based azo-linked Schiff base ligand. C.Anitha, C.D.Sheela, P.Tharmaraj and **S.Johnson Raja**, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **98**, (2012) 35-42 (Impact Factor:2.098)
8. Synthesis And Studies On Metal Complexes Of 5-(Furan-2-Yl)-3- (2-Hydroxy Phenyl)1-H Pyrazole-1-Carbothiohydrazide, P.Saravana Bhava, P.Tharmaraj , **S.Johnson Raja**, *International Journal of Scientific Research*, **1**, (2012) 3-6
9. Transition Metal complexes with Schiff base ligands : 4-aminoantipyrine based derivatives-A review. N.Raman, **S. Johnson Raja** and A.Sakthivel, *J. Coord.Chem.*, **62(5)**, (2009) 691-709.
10. Designing, Synthesis, Spectral characterization of Antimicrobial and DNA active tridentate Schiff base ligands and their complexes. N.Raman, **S.Johnson Raja**, J.Joseph, A.Sakthivel and J.DhaveethuRaja, *J. Chil. Chem. Soc.*, **53(2)**,(2008)1393-1395.
11. Designing, Structural Elucidation, Comparison of DNA Cleavage and Antibacterial Activity of Metal(ii) Complexes Containing Tetradentate Schiff base. N.Raman, **S.Johnson Raja**, J.Joseph and A. Sakthivel, *Russ.J. Coord. Chem.*, **34(10)**,(2008)1-7
12. Spectral characterisation, cyclic voltammetry, morphology, biological activities and DNA cleaving studies of amino acid Schiff base metal(II) complexes. M.A. Neelakantan, F. Rusalraj, J. Dharmaraja, **S. Johnsonraja**, T. Jeyakumar and

- M. Sankaranarayana Pillai, *Spectrochim. Acta Part A: Mol. Biomol. Spectrosc.*, **71**, (2008) 1599-1609
13. Molecular Designing, Structural Elucidation and Comparison of the Cleavage ability of Oxovanadium(IV) Schiff base Complexes. N.Raman, **S.Johnson Raja**, J.Joseph and J.Dhaveethu Raja, *Russ. J. Coord. Chem.*, **33(1)** (2007) 7.
 14. Synthesis and Spectral Characterization of Mixed Ligand complexes derived from 2-chlorobenzaldehyde, 4-aminoantipyrine and 1,10-phenanthroline. N.Raman, and **S.Johnson Raja**, *Asian J. of Spectroscopy*, **11**, (2007) 35-41.
 15. Synthesis, Spectral characterisation and DNA Cleavage study of Heterocyclic Schiff base Metal Complexes. N.Raman, **S.Johnson Raja**, J.Joseph and J.Dhaveethu Raja, *J. Chil. Chem. Soc.*, **52, N(2)**, (2007) 1099-1102.
 16. DNA Cleavage, Structural Elucidation and Antimicrobial Studies of Three Novel Mixed Ligand Schiff base Complexes of Copper(II). N.Raman, and **S.Johnson Raja**, *J. Serb. Chem. Soc.*, **72(10)**, (2007) 983-992.
 17. Mixed ligand transition metal(II) complexes of Knoevenagel condensate- β -ketoester with *o*-phenylenediamine - Synthesis, structural characterization, electrochemical behaviour and antimicrobial study N. Raman, C. Thangaraja and **S. Johnson Raja**, *Indian J. Chem.*, **44(A)** (2005) 693.
 18. Synthesis, structural characterization, redox and antibacterial activity of Schiff base transition metal (II) complexes derived from 4-aminoantipyrine and 3-salicylidene acetylacetone. N.Raman, C.Thangaraja and **S.Johnson Raja**, *Cent.Eur.Chem., J.*, **3(3)** (2005) 537

Annexure II

PAPER PRESENTATIONS, CONFERENCES, AND SEMINARS

1. Participated and presented a paper titled "Novel water-soluble mixed ligand Cu(II), Zn(II), Ni(II) and Co(II) complexes: Perfect antimicrobial agent, radical scavenger and catalyst for hydroxylation of phenol" in the international conference on Nanomedicine (ICON-2019) held at Madurai Kamaraj University, Madurai, India on 25th & 26th February, 2019.
2. Participated and presented a paper titled "Synthesis, characterization, antibacterial and antioxidant activities of novel water-soluble Cu(II), Zn(II), Ni(II) and Co(II) Schiff base complexes" in the national level conference on "Recent Trends in Chemistry" organized by V.P.M.M. Arts and Science College for Women, Krishnankoil held on 11th & 12th February 2019.
3. Participated and presented a paper titled "Synthesis, spectral elucidation and antimicrobial activities of mixed ligand transition metal complexes containing indole moiety" in the international conference on Modern Trends in chemistry (MTC-25) organized by Vivekananda College, Madurai held on 23 rd February 2018.
4. Participated and presented a paper titled "Metal complexes of a novel Schiff base containing isatin: Characterization, antimicrobial, antioxidant and catalytic activity study" in the international conference on Recent Advances in Materials for Energy and Environmental Remediation (RAMEER-2018) organized by V.H.N.S.N.College, Virudhunagar held on 28th & 29th June 2018.
5. Participated and presented a paper titled "Preparation, characterization and biological activity of Schiff base metal complexes derived from thiophen-2-carboxaldehyde" in the national level conference on "Recent Advances in Bioinorganic and Medicinal Chemistry

(RABAMCHEM-2017)” organized by V.H.N.S.N. College, Virudhunagar held on 15th February 2017.

6. Participated and presented a paper titled “Preparation and spectral characterization of isatin based transition metal complexes” in the national level conference on “Emerging Trends in Chemical Sciences” organized by Noorul Islam Centre for Higher Education, Kumaracoil on 18 th& 19 th September 2014.
7. Participated in UGC sponsored National Conference on Modern Trends in Chemical Sciences organized by VHNSN College, Virudhunagar, July 18 & 19, 2014
8. Participated in DRDO sponsored Third National Conference on Advanced Functional Materials and Applications organised by Kalasalingam University, Krishnankoil, March 21 & 22, 2014
9. Participated in Indo-Italian work shop on Molecular Nanophotonics by Anna University, Chennai, July 24-26, 2013
10. Participated in National Level Seminar on Recent Development in Nanomaterial by Mohamed Sathak Engineering College, Kilakarai, April 11, 2013
11. Participated in the National Level Symposium organized by Kamaraj College Engineering and Technology, Virudhunagar, March, 2012
12. Participated in the National Level Symposium on Emerging Concepts and Trends in Bioinorganic Chemistry sponsored by DST, organized by National Engineering College, Kovilpatti, February 24 & 25, 2011 Participated in the National Level Seminar on Recent Trends in Bio-inorganic Chemistry sponsored by DST, organized by VHNSN College, Virudhunagar, February 17 & 18, 2011
13. Participated in the National Level Seminar on Recent Trends in Bio-inorganic Chemistry sponsored by DST, organized by VHNSN College, Virudhunagar, February 17 & 18, 2011
14. Participated in the National Level Conference on Recent Advances in the Study of Transition Metal Complexes sponsored by University Grants Commission, organized by VHNSN College, Virudhunagar , August 13 & 14, 2008
15. Participated a Two Days Workshop on Micro Teaching, organized by Department of Computer Science Engineering, National Engineering College, Kovilpatti , July 18 & 19, 2008
16. Paper presented with the title, “Synthesis, Characterization and Antibacterial Activity of a novel Cu(II) Mixed Ligand Complex” at DST & UGC sponsored National Seminar on Theoretical and Chemical Sciences, organised by Annamalai University, Annamalai Nagar on 23rd & 24th Feb.2008
17. Paper presented with the title, “Spectroscopy, Thermal, XRD and SEM Characterization of Cu(II) and Ni(II) Schiff Base Complexes Containing Heterocyclic Ring” at UGC Sponsored National Conference on Recent Trends in Chemistry, organised by Bishop Heber College, Trichy on 12th Oct. 2007
18. Participated and presented a paper titled *A Study on Synthesis, Characterization, and Antimicrobial Activity of Heterocyclic Schiff Base Metal Complexes* in the Two Day National Seminar on Frontier Areas in Chemistry, sponsored by UGC, New Delhi, organized by Thiagarajar College, Madurai, March 1 & 2, 2007.
19. Participated and presented a paper on *Synthesis, Characterization and DNA Cleavage Studies of Mixed Ligand Complexes* in the Two Day National Level Seminar on Emerging Trends in Chemistry, Sponsored by UGC, New Delhi, organized by Cardamom Planters’ Association College, Bodinayakanur, July 26 & 27, 2006.

20. Participated and presented a paper on *Synthesis, Characterization and DNA Cleavage Studies of Oxovanadium(IV) Complexes* in Seminar on Recent Advances in Chemistry organized by Annamalai University, Annamalainagar, March 10 & 11, 2006
21. Participated in the Two Day State Level Seminar on Solid Waste Management (SESOM), organized by Department of Chemistry, ANJA College, Sivakasi, February 27 & 28, 2006
22. Participated and presented a paper titled *A Study on Synthesis, Characterization and Antimicrobial Effect of Schiff Base Complexes* derived from 4-aminoantipyrine and 3-salicylideneacetylacetone Two day National Seminar on Cheminformatics and Drug Design, sponsored by UGC, organized by the Department of Chemistry and Department of Computer Applications, Fatima College, Madurai, September 29 & 30, 2005.
23. Participated in the Two Day Seminar cum Workshop on Molecular Trends in Microbiology, organized by Department of Microbiology, VHNSN College, Virudhunagar, September 03 & 04, 2005.
24. Participated in the One Day Seminar on Renewable Energy-Energy of the Future sponsored by Tamilnadu Energy Development Agency, Chennai, organized by VHNSN College, Virudhunagar, August 25, 2005
25. Participated and presented a paper titled *A Study on Synthesis, Characterization and Antimicrobial Effect of Schiff Base Complexes Derived from 4-aminoantipyrine and 3-salicylideneacetylacetone*, at the Two day National Level Conference on Recent Trends in Chemistry of Biologically Interesting Compounds, sponsored by UGC, organized by the Department of Chemistry, VHNSN College, Virudhunagar, Retchembic, July 22 & 23, 2005.
26. Participated in the Two Day Workshop on Frontiers in Chemistry: A Lecture Program, Sponsored by the Indian Academy of Sciences, Bangalore, organized by the Centre for Photoelectrochemistry, School of Chemistry, Madurai Kamaraj University, Madurai, March 09 & 11, 2005.
27. Participated and presented a paper titled *A Study on Mixed Ligand Transition Metal(II) Complexes Derived from Knoevenagel β -ketoester with o-phenylenediamine* at the Two day National Seminar on Novel Trends in Synthesis, Structure, Reaction Dynamics and biological studies of Coordination Compounds, sponsored by UGC, CSIR and TNSCST, organized by the Department of Chemistry, Gandhigram Rural Institute-Deemed University, Gandhigram, OP-35, March 3 & 4, 2005
28. Participated and presented a paper titled *A Simple EPR Study of a Cu(II) Complex from a Fully Conjugated tetraaza(14) Membered Schiff Base*, at the Two Day Symposium on Electron Magnetic Resonance Spectroscopy, organized by the Department of Chemistry, Pondicherry University, Pondicherry, OP-1, February 4 & 5, 2005