

PROFILE

Name Dr. S.Johnson Raja
Designation Professor
Department Chemistry



EDUCATIONAL PROFILE:

Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
B.Sc	Chemistry	1999	S.R.N,M College	Madurai Kamaraj University	76.2	First
M.Sc	Chemistry	2003	V.H.N.S.N College	Madurai Kamaraj University	78.5	First
Ph.D	Chemistry	2007	V.H.N.S.N College	Madurai Kamaraj University	-	-

Ph. D. Thesis : “Synthesis, Characterization and Some Antimicrobial Activity of Sensitive Heterocyclic Schiff Base Metal Complexes”

Current Research

“Biological activity of the metal complexes through antioxidant property, DNA Intercalation and Antimicrobial Studies”

Research Profile:

No. of publications : Journal: 18

Ph.D. Guided : Three Candidates are registered Ph.D. (One candidate (**Thesis Submitted**) at //Manonmanium Sundaranar University, Tirunelveli and Two candidates at Bharathiar University, Coimbatore)

Editing Book:

Dr. S.Johnson Raja, 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

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

Others: Received fund Rs. 9,75,000 /- from DST for science camp under DST inspire internship scheme.

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 Journal of Pharmaceutical and Clinical Research, (Accepted)
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**, *International journal of basic and applied research*(Accepted)
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, *Research Journal of Chemistry and Environment*, (accepted)
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*, April 2015, Volume 24,(4) , pages 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 Spectrosc.*,**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.

RESEARCH SCHOLAR DETAILS

Candidate Name	College Name	University	Status
Mrs.B.Kokila Rani	Raja College of Engineering & Technology, Madurai	Manonmanium Sundaranar University, Tirunelveli.	Completed Five years
Mrs.B. Vairalakshmi	VVV College for women, Virudhunagar.	Bharathiar University, Coimbatore	Completed Four years
Mr.N. Vijayan	Raja College of Engineering & Technology, Madurai	Bharathiar University, Coimbatore	Doing literature survey