Bapuji Educational Association (Regd.)

A.V.Kamalamma college for Women, Davangere.

FACULTY PROFILE

Dr. RUDRESHA B. J.
M.Sc. (Chemistry), Ph.D (NIT), PDF (IISc)
Assistant Professor and HOD of Chemistry
A.V.Kamalamma College for Women
Davangere
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Educational Qualifications

Sl No	Degree	Specialization/Subjects	University	Year of Passing/Award
1	Post.Doc.	Lithium Ion Batteries	Indian Institute of Science, Bangalore	2014
2	Ph.D	Synthesis Characterization and Third-order Nonlinear Optical Study of Some Transition Metal and Boron Complexes	Catalysis and Materials Laboratory, Department of Chemistry, National Institute of Technology Karnataka (NITK), Surathkal, India.	2012
2.	PG	Chemistry	Kuvempu University	2005
3.	UG	B.Sc.(PCM)	Kuvempu University	2003

Professional Details:

Sl No.	Designation	Institution/University	UG/PG	Year of service
1	Assistant Professor and HOD of Chemistry	Department of Chemistry, A.V.Kamalamma College for Women, Davangere.	UG	**From Sep 2021** to till date

2	Assistant Professor at Department of Chemistry	Sri Dharmasthala Manjunatheshwara (SDM) College (Autonomous), Ujire.	PG	Sep 2016-May 2020
3	Assistant Professor and Head department of Chemistry	BrindavanCollege of Engineering, Affiliated to VTU, Bangalore.	UG	**Sep 2014– Sep 2016**
4	Postdoctoral Fellow	Solid state and Structural Chemistry Unit (SSCU), Indian Institute of Science (IISc), Bangalore.	Researcher	**May 2013 – Sep 2014**
5	Assistant Professor and Head department of at organic Chemistry	Padmashree Institute of Management and Sciences, Affiliated to Bangalore University, Bangalore.	PG	**October 2012– May, 2013**
6	**Ph.D. Scholar**	Catalysis and Materials Laboratory, Department of Chemistry, National Institute of Technology Karnataka (NITK), Surathkal,India.	Research Scholar	**July 2008-Dec2012**
7	Project Fellow	Nuclear Magnetic Resonance (NMR) Research center, Indian Institute of science (IISc), Bangalore, India.	Researcher	**November 2006 - July 2008**

ACADEMIC DETAILS:	
❖ Subjects taught at UG level	Analytical Chemistry Organic Chemistry Inorganic Chemistry
❖ Subjects taught at PG level	Inorganic Chemistry and Analytical Chemistry

Area of Research Interests:
• Optical Materials. • NMR spectroscopy. • Energy Storage Materials.

Administrative Responsibilities:
• IQAC Coordinator. • Time Table Committee Coordinator. • Research Committee Coordinator. • Member of Canteen Committee.

Research Publications	
International Journals	
1.	K.V.Basavarajappa,Y. ArthobaNayaka, H.T.Purushothama R.O.Yathisha M.M.Vinay B.J. Rudresha and K.B.Manjunatha. "Optical, electrochemical and current−voltage characteristics of novel coumarin based 2,4-dinitrophenylhydrazone derivatives." Journal of Molecular Structure, 1199, 2020, 126946.
2.	K.B. Manjunatha, Ravindra Rajarao, P. Poornesh, B.J. Rudresha, G. Umesh, B. RamachandraBhat. "Enhanced photostability and optical nonlinearity of nickel and cobalt organometallic complexes". Optical Materials, 89 (2019) 494–497.
3.	SudeshnaSen, **Rudresha B. J**, Haijin Zhu,Maria Forsythand Aninda J. Bhattacharyya"A single cation or anion dendrimer-based liquid electrolyte."***Chemical.Science***, 2016,**7**, 3390-3398.
4.	R. Dileep and **B. J. Rudresha,** "An ionic liquid immobilized copper complex for catalytic epoxidation". RSC Adv., 2015, 5, 65870-65873.
5.	**Rudresha B. J.,** K.B. Manjunatha, G. Umesh and RamachandraBhat B. (2012). "Octupolar metal complexes for third order nonlinear optical studies."*Chem. Phys. Lett.* 542, 2012, 159- 163.
6.	**Rudresha B. J**, BadekaiRamachandraBhat, Dileep Ramakrishna, John KiranAnthony, Lee H.W and Rotermund F. (2012). "Nonlinear optical study of palladium Schiff base complex using femtosecond differential optical Kerr gate and Z- scan techniques." *Optics & Laser Technology, 44, 2012, 1180–1183.*

7.	**Rudresha B. J**., RamachandraBhat B., Sampath Kumar H.C., Shiva Kumar K.I., Safakath K and Reji Philip. (2011). "Synthesis, characterization and third-order nonlinear optical studies of copper complexes containing 1,10-phenanthroline-5,6-dione and triphenylphosphine ligands." *Synthetic Metals. 161, 2012, 535-539.*
8.	**Rudresha B. J**, RamachandraBhat B., Manjunatha K. B and G. Umesh. (2011). "Synthesis, Characterization And Third Order Nonlinear Optical Studies Of Diimine Based Zn(II), Cd(II) and Hg(II) Complexes." *Optics: phenomena, Materials, Devices and characterization, AIP Conf. Proc. 1391,2011, 697-699.*
9.	H.C.Sampath Kumar, **Rudresha B. J.**, RamachandraBhat B., Reji Philip, Guru Row T. N., "Synthesis And Third-order Nonlinear Optical Studies of Four-Coordinated Copper(I) Complexes." *Optics: phenomena, Materials, Devices and characterization, AIP Conf. Proc. 1391, 2011, 671-673.*
10.	**Rudresha B. J.**, BadekaiRamachandraBhat, Dileep Ramakrishna, John Kiran Anthony, Fabian Rotermund. (2010). "Third-order optical nonlinear studies of Cobalt (II) Schiff base complex bearing triphenylphosphine using Differential Optical Kerr Gate and Z-scan studies." *Synthetic Metals, 160, 2010, 1584-1586.*
11	Sampath Kumar H. C., RamachandraBhat B., **Rudresha B. J.,** Ravindra R and Reji Philip., (2010)., "Synthesis, characterization ofN,N'-bis(2-hydroxynaphthalidene)phenylene-1,2-diamine with M(II)(M = Ni, Zn and Fe) Schiff-base complexes and their non-linear optical studies byz-scan technique." *Chem. Phys. Lett., 494, 2010, 95-99.*
12	Kiran A.J., Lee H.W., SampathKumar H.C., **Rudresha B. J.,** Bhat B.R., IYeom D., Kim K and Rotermund F. (2010). "The ultrafast nonlinear optical response and multi-photon absorption of a new metal complex in the near-infrared spectral range." *J. Optics A, 2010, 035211.*
13	A. John Kiran, H. W. Lee, H. C. S. Kumar, **B. J. Rudresha**, B. R. Bhat, D.-I. Yeom, and F. Rotermund., "Ultrafast optical response of a new metal organic complex-polymer composite film." Conference Paper. Conference on Lasers and Electro-Optics/Pacific Rim Shanghai China August 30, 2009 - September 3, 2009, ISBN: 978-1-4244-3830-3.

Award:

- Qualified GATE examination (2006).
- Qualified in the National Institute of Technology entrance test and Awarded Institute fellowship (2008 -2012).
- Council for Scientific and Industrial Research (CSIR): Completed a project on Lithium Ion Batteries during Postdoctoral studies at SSCU, IISc, Bangalore.
- Involved in DST project for two years at NMRC, IISc, Bangalore.

NATIONAL / INTERNATIONAL CONFERENCES: SEMINARS / WORKSHOPS ATTENDED & PRESENTED PAPER:

Rudresha B. J., Reji Philip and BadekaiRamachandraBhat. (2009). *International Conference on Emerging Trends in Chemistry*, University of Pune, Centre of advanced studies, Dept. of Chemistry, Pune.

Rudresha B. J., RamachandraBhat B., Dileep R., John Kiran A., Hwang Woon Lee and FabianRotermund. (2010). *National Conference on Recent Trends in Chemical Research*, Dept. of Chemistry, National Institute of Technology Karnataka (NITK), Surathkal.

Rudresha B. J, RamachandraBhat B, Manjunatha K. B and G. Umesh. (2010). Presented a research paper titled "Synthesis characterization of 1,10-phenanthroline based Cd(II) complexes for study of third order nonlinear optical properties." *Recent Trends in Chemical and Biological Sciences.* Dept. of chemistry, School of ChemicalSciences Kuvempu University Shankargatta, Shimoga.

Participated in three days National Workshop on the topic titled (2008). "Modern Electro-chemical Techniques in Synthesis and Characterisation of Advanced Materials." Held at National Institute of Technology Karnataka (NITK), Surathkal, India.

Participated in two-days National seminar on topic titled (2004). "Recent Advances in Electrochemical and Surface Sciences for Industry and Society." Held at Kuvempu University, Shimoga, India.

Participated in Indian Institute of Science Centenary Symposium on (2008) " Future Directions in NMR." Held at Indian Institute of Science, Bangalore, India.

Attended the International Conference on (2009). "Coordination and Organometallic chemistry." Held at Bharathiar University, Coimbatore, India.

Participated in three days National Workshop on (2009). “Advances in Coordination Chemistry.” Held at National Institute of Technology Karnataka (NITK), Surathkal, India.
Participated in the Workshop on (2011). “Experimental Techniques in Nonlinear Optics.” Held at Raman Research Institute (RRI), Bangalore, India.

Research Details:

Citations: Total-118, Since 2017-73

h-index: Total-8, Since 2017-04

i10-index:Total-05, Since 2017-03.