


## Faculty Profile

<b>Name of Faculty</b>	Dr. J. ThippeRudrappa	
<b>Department</b>	Physics	
<b>Qualification</b>	M.Sc., M.Phil., Ph.D.	
<b>Designation</b>	Professor	
<b>Area of specialization</b>	Solid state Physics, Molecular Spectroscopy, Nanoscience	
<b>Date of Joining VSKUB</b>	27.05.2019	
<b>Nature of Association (Regular/Contractual/Adjunct)</b>	Regular	
<b>e-mail</b>	jtrphy2007@gmail.com	
<b>No. of years of Experience</b>	Teaching:14 years and 8 months Research:1.5 years	

### Academic Qualifications

- **Ph.D.** (2004), Department of Physics, Gulbarga University, India.
- **M.Phil.** (2000), Department of Physics, Gulbarga University, India (I Class).
- **M.Sc.** (1999), Solid state Physics, Department of Physics, Gulbarga University, India (**I Rank**).
- **B.Sc.** (1997), Vijayanagar College, Hospet (Bellary district) (I Class).
- **PUC (1994)**, Veerasaiva College, Bellary (I Class)
- **SSLC (1992)**, SMGJ High School, Kampli (II Class)

### Working Experience Details

- Professor, PG Department of Studies in Physics, Vijayanagara Sri Krishnadevaraya University, Ballari, India.
- Professor & HOD, Dept. of Physics, BNMIT, Bangalore, India, (2009 – 2019).
- Asst. Professor & HOD, Dept. of Physics, BNMIT, Bangalore, India, (2007 – 2009).
- Lecturer and HOD, Dept. of Physics, BNMIT, Bangalore, India, (2004-2007).
- User, Edinburgh's model 199 single photon counting fluorescence spectrometer, Bhabha Atomic Research Centre (BARC), Mumbai, India, (2003-2004).
- Visiting research student, Laser Spectroscopy Programme (DRDO), Department of Physics, Karnatak University, Dharwad, India, (2000 – 2004).
- User, Photophysics model of SPC nanosecond fluorescence spectrometer at Indian Institute of Technology (IIT), Mumbai, India, (2003 – 2004).
- Visiting research student, Materials Research Center, Indian Institute of Science, Bangalore, India, (1999-2000).
- Project Assistant, Department of Physics, Gulbarga University, Gulbarga, India, (2000-2002).
- Visiting research student, Crystal Growth Centre, Anna University, India, (1999-2000).

**Topics Taught:** Oscillations & Waves, Maxwell's Equations, Dielectric and Magnetic properties of Materials, Crystal structure and X-ray Diffraction, Electrical conductivity in metals, Superconductivity,

Ultrasonics and their applications, Fundamentals of Nanotechnology, Lasers and their applications, Optical fibers and their applications and Quantum mechanics.

#### **Research Experience Details:**

##### **M. Phil:**

Synthesized Lead Iron Niobate ( $\text{PbFe}_{1/2}\text{Nb}_{1/2}\text{O}_3$ ) relaxor ferroelectric material by solid state reaction method. This ferroelectric was characterized by density measurement by Archimedes principle and X-ray diffraction technique. Dielectric measurements was carried out (Dielectric constant and dielectric loss as a function of frequency). Also grown single crystals of Lead Iron Niobate by solution growth technique.

##### **Ph.D:**

Photophysical properties of three laser dyes 1,1,4,4-Tetraphenyl-1, 3-butadiene (TPB), 2-(4'-t-Butylphenyl)-5-(4"-biphenyl)-1,3,4-oxadiazole (BPBD) and 1,4-bis [2-(2-methylphenyl) ethenyl]-benzene (Bis-MSB) were investigated. The UV absorption spectroscopy, Fluorescence spectroscopy and Single photon counting techniques are used to study photophysical properties. The fluorescence quenching of these molecules was studied by two external quenchers aniline and carbon tetrachloride in different environments. Besides this, we have also determined the ground state dipole moments of these molecules by solvatochromic shift method.

#### **Research Supervision**

Sl.No.	Name of the student	Ph.D / M.Phil	University	Year of completion	Title of Research Topic
1	Praveen Jois M N	Ph.D.	VTU, Belgaum	Pursuing	DFT, SOLVATOCHROMISM AND ENERGY TRANSFER STUDIES IN SOME BIOLOGICALLY ACTIVE ORGANIC FLUOROPHORES
2	Sunil Kumar N	Ph.D.	VTU, Belgaum	Pursuing	STUDIES ON PHOTOPHYSICAL PROPERTIES OF SOME FLUORESCENT ORGANIC MOLECULES
3	S. Chandrasekhar (5VX15PGJ11)	Ph.D.	VTU, Belgaum	Pursuing	INVESTIGATIONS ON PHOTOPHYSICAL PROPERTIES OF SOME COUMARIN BASED FLUOROPHORES
4	U.P. Raghavendra (5VX11PGN08)	Ph.D.	VTU, Belgaum	2017	STUDY ON SPECTROSCOPIC PROPERTIES OF SOME ORGANIC FLUOROPHORES
5	H.R. Deepa (1SI09PGM01)	Ph.D.	VTU, Belgaum	2013	PHOTOPHYSICAL STUDIES OF SOME ORGANIC MOLECULES
6	Praveen A C (603043070400)	M.Phil.	VMU, Salem	2009	FLUORESCENCE QUENCHING OF UVITEX-OB BY ANILINE IN 1,4-DIOXANE AND ACETONITRILE

					MIXTURES
7	Shivaramappa H (603041080062)	M.Phil.	VMU, Salem	2008	EFFECT OF SOLVENT POLARITY ON FLUORESCENCE QUENCHING OF 9,10-DIPHENYL ANTHRACENE (DPA) BY ANILINE
8	Mallikarjuna T (603041080061)	M.Phil.	VMU, Salem	2008	FLUORESCENCE QUENCHING OF 9,10-DIPHENYL ANTHRACENE (DPA) BY ANILINE IN DIFFERENT SOLVENTS
9	Dodda Hanumanthappa (603041080449)	M.Phil.	VMU, Salem	2008	FLUORESCENCE QUENCHING OF 9,10-DIPHENYL ANTHRACENE (DPA) BY ANILINE IN 1,4-DIOXANE AND ACETONITRILE MIXTURES

### Research Projects

#### Completed

**Title:** Effect of Silver nanoparticles on photophysical properties of Ketocyanine Dye series

**Funding Agency:** VTU, Belgaum, Karnataka, INDIA

**Amount:** 8.9 Lakhs

**Duration:** 03 years (July 2012 – July 2015)

#### Academic Positions and other Responsibilities (University Level / Others):

1. **Editorial Committee Member**, Second National Conference on “Current Applications in Materials Science” organized by Department of Physics, SJBIT, Bangalore (4<sup>th</sup> May 2019).
2. **Visvesvaraya Technological University Nominee**, Board of Studies, Dr. Ambedkar Institute of Technology, Bengaluru (Autonomous) (18/02/2019 to 17/02/2021).
3. **Member**, Local Inquiry Committee, VTU, Belagavi (Inspected to colleges on for start of New Research Center) on 15<sup>th</sup> June 2016.
4. **Member**, Ph.D. synopsis scrutiny committee, VTU (scrutinized on 6<sup>th</sup> December 2016).

#### Academic Positions and other Responsibilities (Institute Level):

1. **Chief Superintendent** at BNMIT, Bangalore from 04-02-2019 to 22-02-2019, for the conduct of Jan-Feb. 2019 B.E., M.Tech. & MBA examinations of VTU, Belgavi.
2. **Chief Superintendent** at BNMIT, Bangalore from 01-06-2017 to 06-06-2017, & 22.06.2017 to 05.07.2017 for the conduction of June 2017 B.E. examinations of VTU, Belgavi.
3. **Coordinator**, NBA, BNMIT (2017-18, 2018-19)
4. **Coordinator**, NAAC, BNMIT (2016-17, 2017-18)
5. **Coordinator**, IQAC, BNMIT (2016-17).

6. **Member**, Convener, Antiragging Committee, BNMIT (2016-17).
7. **Chairman**, Anti ragging Squad, BNMIT. (2016-17)
8. **Nodal Officer of BNMIT**, National Institutional Ranking Framework (NIRF), 2017, 2018, 2019
9. **Chief Superintendent** at BNMIT, Bangalore from 01-12-2016 to 20-12-2016 for the conduction of December 2016 B.E. examinations of VTU, Belgavi.
10. **Chief Superintendent** at BNMIT, Bangalore from 08-06-2015 to 20-06-2015 for the conduction of May-June 2015 B.E. examinations of VTU, Belgaum.
11. **Chief Superintendent** at BNMIT, Bangalore from 22-12-2014 to 06-01-2015 for the conduction of Dec. 2014-Jan 2015 B.E. examinations of VTU, Belgaum.
12. **Editor** for the College magazine JNANA BHAGEERATHI(2012-2013).
13. **Deputy Chief Superintendent** (External) at IIT, Bangalore from 11-06-2012 to 23-06-2012 for the conduction of June 2012 B.E. examinations of VTU, Belgaum.
14. **Deputy Chief Superintendent** (External) at YDIT, Bangalore 28-05-2012 to 09-06-2012 for the conduction of June 2012 B.E. examinations of VTU, Belgaum.
15. **Editor** for the College magazine JNANA BHAGEERATHI(2011-2012).
16. **Deputy Chief Superintendent** (External) at JSSATE, Mauritius from 17-06-2011 to 23-06-2011 for the conduction of June 2011 B.E. examinations of VTU, Belgaum.
17. **BOE Member**, Physics (UG Professional Board), Bangalore University, Bangalore for the academic year 2011-2012.
18. **Editor** for the BOOK OF ABSTRACTS of the International conference on Fluid Dynamics and its Applications held at BNMIT during July 20-22, 2011.
19. **Editor** for the College magazine JNANA BHAGEERATHI-2010.
20. **Editor** for the BOOK OF ABSTRACTS of the International Conference on Mathematical Modeling and Non linear Equations held at BNMIT during Jan. 20-22, 2010.
21. **Secretary**, Organizing Committee for One Day Symposium on '**Current Trends in Photonics and its Applications**' at BNM Institute of Technology, Bangalore on 20<sup>th</sup> March 2010.
22. **Deputy Chief Superintendent** (External) at City Engineering College, Bangalore from 22-06-2009 to 04-07-2009 for the conduction of June/July 2009 B.E./MBA examinations of VTU, Belgaum.
23. **BOE Member**, Physics, Board of Examinations, BMSCE (Autonomous), Bangalore.
24. **BOS Member**, Physics, Board of Studies, BMSCE (Autonomous), Bangalore.
25. **BOE Member**, Physics, Board of Examinations, SIT (Autonomous), Tumkur.
26. **Editor** for the College magazine JNANA BHAGEERATHI-2008.
27. **Editor** for the SOUVENIR of 52<sup>nd</sup> Congress of the Indian Society of Theoretical and Applied Mechanics (An International Meet) held at BNMIT during Dec. 14-17, 2007.

#### **Experimental/ Computational/ Any other Skills:**

##### **A. Material Synthesis**

- Solid state reaction/Ceramic method: Used to synthesize the Lead Iron Niobate Relaxor Ferroelectrics. Solution growth technique: Used to grow single crystals of Lead Iron Niobate crystals.

- Synthesis of silver nanoparticles of different sizes by chemical reduction method.

## **B. Characterization Techniques**

- **Density measurements by Archimedes principle.**
- X-ray Diffraction technique (XRD).
- **Electrical Measurements like Dielectric using HP -4194A impedance analyzer, Keithley 3330 impedance meter.**
- Thermal expansion studies by LVDT technique.
- **Optical Absorption studies using Absorption UV-VIS Spectrophotometer Model 150-20.**
- Fluorescence emission studies using Spectrofluorometer Model F-2000.
- **Fluorescence lifetime studies using Edinburgh's model 199 single photon counting fluorescence spectrometer**
- Measurement of dielectric constant of liquids by Forbes Tinsley (FT) 6421 LCR Data Bridge.

## **Instruments Handled/Software's handled:**

- **Density measurement kit based on Archimedes principle.**
- Push rod dilatometer.
- **Crystal Growth Unit (Solution growth technique).**
- HP -4194A impedance analyzer, Keithley 3330 impedance meter.
- **UV-VIS Spectrophotometer.**
- Spectrofluorimeter
- **Edinburgh's model 199 single photon counting fluorescence spectrometer**
- Forbes Tinsley (FT) 6421 LCR Data Bridge.

## **Awards/ Achievements/Recognitions:**

- **Certificate of Recognition for Outstanding Contribution in Reviewing** by Journal of Molecular Liquids (An Elsevier Journal) during June 2018.
- Letter of **appreciation and a cash award of Rs.10000/-** by BNM Institute of Technology, Bangalore for publication of research paper entitled "Effect of Plasmonic Silver Nanoparticles' Size on Photophysical Characteristics of 4-aryloxymethyl Coumarins" in Plasmonics Journal during August 2018.
- Letter of **appreciation and a cash award of Rs.10000/-** by BNM Institute of Technology, Bangalore for publication of research paper entitled "Effect of TiO<sub>2</sub> nanoparticles on some photophysical characteristics of Ketocyanine dyes" in Luminescence Journal during August 2018.
- **Summer Research Fellowship** from Indian Academy of Science, Bangalore in 2010
- **Merit Fellowship from Jindal Industries, India during B.Sc.**
- Merit Fellowship from Jindal Industries, India during M.Sc.
- **Gold Medal for securing highest marks in M.Sc. for the year 1999.**
- First Rank in M.Sc.

### **Professional Memberships:**

- **Life Member, Indian Society for Technical Education (ISTE).**
- Life Member, Indian Society for Radiation And Photochemical Sciences (ISRAPS).
- **Life Member, Indian Association of Physics Teachers (IAPT).**
- Life Member, Society of Environmental Chemistry and Allied Sciences (SECAS)
- **Life Member, Karnataka Rajya Vijnana Parishath (KRVP)**

### **Workshops /Seminars Organized:**

1. **Organising Chair for Five Day Faculty Development Program on “Modern Materials & their Applications”** held at BNM Institute of Technology, Bengaluru during 16-20, January 2018.
2. **Organizing Secretary** for the conduction of **One Day Symposium on Current Trends in Photonics and its Applications** on 20<sup>th</sup> March 2010 at BNMIT.

### **Research Publications:**

#### **I. In National & International Journals**

##### **International Journals:**

1. Exploring the spectral features and quantum chemical computations of a novel biologically active heterocyclic class of compound 2MEFPBA dye: Experimental and theoretical approach  
P. Bhavya, Raveendra Melavanki, Kalpana Sharma, Raviraj Kusanur, N R Patil, **J. Thipperudrappa**  
Chemical Data Collections, 19, 100182 (1-14 pages) **January 2019**
2. Solvatochromic Studies and Estimation of Excited Dipole Moment of newly Synthesised Iodinated Coumarin Derivative  
Mayadevi Kalgi, Raghavendra U P, Mahantesha Basanagouda, S M Hanagodimath, **Thipperudrappa J**  
International Journal of Research and Analytical Reviews (IJRAR) 5(4) November 2018 (UGC approved).
3. Effect of solvents on photophysical properties of biologically active iodinated 4-aryloxymethyl coumarin 1IPBC  
Mayadevi Kalgi, Raghavendra U P, Mahantesha Basanagouda, S M Hanagodimath, **Thipperudrappa J**  
Journal of Emerging Technologies and Innovative Research (JETIR), 5(11) November 2018 (UGC approved).
4. Experimental studies of DC conductivity and thermo electric power of Polypyrrole/Titanium Dioxide nano composites  
Aditya V B, Akhil D Prabhu, Bahrathesh B M, Chaluvaraju B V, Raghavendra U P, **Thipperudrappa J** and Murugendrappa M V  
Materials Today: Proceedings 5(10), 20874-20881, 2018.
5. Modification of spectral behaviour of ketocyanine dyes by silver nanoparticles of different sizes

- J. Thipperudrappa**, U.P. Raghavendra, H.R. Deepa & Mahantesha Basanagouda  
International Journal of Nanoscience, 17(3), 1850022 (1-10 pages). March 2018
6. Effect of plasmonic silver nanoparticles' size on photophysical characteristics of 4-aryloxymethyl coumarins  
U.P. Raghavendra, Mahantesha Basanagouda, R.M. Melavanki and **J. Thipperudrappa**, Plasmonics 13(1), February 2018, pp. 315-325 (Springer)
  7. Effect of TiO<sub>2</sub> nanoparticles on photophysical characteristics of ketocyanine dyes  
J.Thipperudrappa, U.P. Raghavendra and Mahantesha Basanagouda  
Luminescence, John Wiley , 32(7), pp. 1283-1288, November 2017.
  8. Spectroscopic studies on newly synthesized 5-(2-hydroxy-5-methoxy-phenyl)-2-phenyl-2H-pyridazin-3-one molecule  
Vani R. Desai, Shirajahammad M. Hunagund, Mahantesha Basanagouda, Jagadish S. Kadadevarmath, J. Thipperudrappa, Ashok H. Sidarai  
Journal of Molecular Liquids, 225, January 2017, 613-620
  9. Spectroscopic investigations on the interaction of biologically active 4-aryloxymethyl coumarins with TiO<sub>2</sub> nanoparticles  
U.P. Raghavendra, Mahantesha Basanagouda, A.H. Sidrai, J. Thipperudrappa  
Journal of Molecular Liquids, 222 ( October 2016), 601-608, Elsevier, Impact Factor:
  10. Effect of Solvents, Solvent Mixture and Silver Nanoparticles on Photophysical Properties of a Ketocyanine Dye  
J. Thipperudrappa, H.R. Deepa, U.P. Raghavendra, S.M. Hanagodimath, R.M. Melavanki  
**Luminescence: The Journal of Biological and Chemical Luminescence**, 32 (1), February 2017, 51–61.
  11. Specific interactions of alcohols and non-alcohols with a biologically active boronic acid derivative: a spectroscopic study  
H. S. Geethanjali, R. M. Melavanki, D. Nagaraja, N. R. Patil, J. Thipperudrappa and R. A. Kusanur  
Luminescence: The Journal of Biological and Chemical Luminescence, 31(5), pp. 1046-1053, August 2016. (DOI:10.1002/bio.3067).
  12. Influence of silver nanoparticles on spectroscopic properties of biologically active iodinated 4-aryloxymethyl coumarin dyes  
U. P. Raghavendra , J. Thipperudrappa, Mahantesha Basanagouda and R.M. Melavanki  
Journal of Luminescence, 172, 139-146, April 2016. (doi No.: 10.1016/j.jlumin.2015.12.003)
  13. Investigation of role of silver nanoparticles on spectroscopic properties of biologically active coumarin dyes 4PTMBC and 1IPMBC  
U.P. Raghavendra , M. Basanagouda and **J. Thipperudrappa**  
Spectrochimica Acta Part A: Molecular and Bimolecular spectroscopy, 150(11), 350-359, November **2015**.
  14. A Study on Fluorescence Quenching of a laser dye by aromatic amines in alcohols  
H. R. Deepa, **J. Thipperudrappa** and H. M. Suresh Kumar  
Canadian Journal of Physics, 93(4), 469-474, April 2015.
  15. Solvatochromic studies of biologically active iodinated 4-aryloxymethyl coumarins and estimation of dipole moments  
U.P. Raghavendra, Mahantesha Basanagouda , R. M. Melavanki, R.H. Fattepur and **J. Thipperudrappa**

- Journal of Molecular Liquids, 202, 9-16, **February 2015**.  
dx.doi.org/10.1016/j.molliq.2014.12.003.
16. Photophysical characteristics of biologically active 4-aryloxymethyl coumarins 4PTMBC and 1IPMBC  
**J. Thipperudrappa**, U.P. Raghavendra and M. Basanagouda  
Spectrochimica Acta Part A: Molecular and Bimolecular spectroscopy, 136(5), 1475-1483, February **2015**.
  17. Effect of solvents on photophysical properties and quenching of 2-{[3-(1H-benzimidazole-2-yl)phenyl] carbonimidoyl}phenol  
G. R. Suman, S. G. Bubbly, S. B. Gudennavar, **J. Thipperudrappa**, B. Roopashree, Gayatri, N. M. Nanje Gowda  
**Luminescence: The Journal of Biological and Chemical Luminescence**, 30 (5), 611-618, August 2015.
  18. Study on Solvent Effect and Estimation of Dipole Moments of an Organic Fluorophore  
**J. Thipperudrappa**  
International Journal of Scientific & Technology Research, 3(5), 107-113, **May 2014**, ISSN 2277-8616
  19. Analysis of Solvatochromism of a Biologically active Ketocyanine dye using different Solvent Polarity scales and Estimation of dipole moments  
**J. Thipperudrappa**  
International Journal of Life Science & Pharma Research, 4(2), 1-11, Apr-Jun, **2014**. ISSN 2250-0480.
  20. Resonance Energy Transfer study of Laser Dyes LD 489 and LD 473 with Rhodamine 6G  
H. R. Deepa, **J. Thipperudrappa** and H. M. Suresh Kumar  
Canadian Journal of Physics, 92(4), 302-306, **2014**. dx.doi.org/ 10.1139/cjp-2013-0445.
  21. Influence of silver nanoparticles on absorption and fluorescence properties of laser dyes  
H. R. Deepa, H. M. Suresh Kumar and **J. Thipperudrappa**  
Canadian Journal of Physics, **2014**, 92(2):163-167, dx.doi.org/10.1139/cjp-2013-0133.
  22. Effect of Temperature on the Fluorescence emission of ENCTTTC in different non polar solvents  
N. R. Patil, R.M. Melavanki, **J. Thipperudrappa** and Onumashi Afi Ushie  
Canadian Journal of Physics, **2013**, 91(11): 971-975, dx.doi.org/10.1139/cjp-2013-0025.
  23. Quenching of the Excitation Energy of Coumarin Dyes by Aniline  
D. Nagaraja, R.M. Melavanki, Raviraj A Kusnoor, **J. Thipperudrappa** and H. Sannagudennavar  
Canadian Journal of Physics, **2013**, 91(11): 976-980, dx.doi.org/10.1139/cjp-2013-0009.
  24. Solvatochromic shift studies in LD-425 and LD-423: Estimation of ground and excited state dipole moments  
H. R. Deepa, **J. Thipperudrappa**, R.H. Fattepur and H. M. Suresh Kumar  
Journal of Molecular Liquids, 181, 82-88, **May 2013** dx.doi.org/10.1016/j.molliq.2013.02.016
  25. Effect of Solvents on the Spectroscopic Properties of LD-489 & LD-473: Estimation of Ground and Excited State Dipole Moments by Solvatochromic Shift Method  
H. R. Deepa, **J. Thipperudrappa** and H. M. Suresh Kumar  
Spectrochimica Acta Part A: Molecular and Bimolecular spectroscopy, 108, 288-294, **May 2013**  
(dx.doi.org/10.1016/j.saa.2013.01.084.
  26. Fluorescence quenching of 1,4-bis [2-(2-methylphenyl) ethenyl]-benzene by aniline in benzene-acetonitrile mixtures  
**J. Thipperudrappa** & S. M. Hanagodimath  
International Journal of Life Science & Pharma Research, 3(1), 77-87, Jan-March **2013**. ISSN 2250-0480.



27. Fluorescence quenching studies of 6,7,8,9-tetrahydro- 6,8,9-trimethyl-4 (trifluoromethyl)-2H-pyrano[2,3- b][1,8]naphthyridin-2-one by aromatic amines in alcohols  
H. R. Deepa, **J. Thipperudrappa** & H. M. Suresh Kumar  
International Journal of Physics and its Applications,4(2), 157-168, **2012**.  
IISN 0974-3103.
28. A study on fluorescence quenching of LD-425 by aromatic amines in 1,4-dioxane – acetonitrile mixtures  
H. R. Deepa, **J. Thipperudrappa** & H. M. Suresh Kumar, **Journal of Luminescence**, **132**, **1382-1388**, June 2012.
29. Solvent effect on the spectroscopic properties of 6MAMC and 7MAMC”  
Raveendra M. Melavanki, N.R. Patil, S.B. Kapatkar, N.H. Ayachit, Siva Umapathy, **J. Thipperudrappa** and A.R. Nataraju  
Journal of Molecular Liquids, 158, 105 – 110, **2011**.
30. “Fluorescence quenching studies and temperature dependence of fluorescence quantum yield, decay time and intersystem crossing activation energy of TPB”,  
S.M. Hanagodimath, B. Siddlingeshwar **J. Thipperudrappa** and S. Kumar B. Hadimani,  
Journal of Luminescence, 129(4), 335-339, **2009**.
31. “Solvent effects on the absorption and fluorescence spectra of some laser dyes: Estimation of ground and excited state dipole moments”.  
**J.Thipperudrappa**, D.S.Biradar, B.Siddlingeshwar, S. R. Manohara, S. M. Hanagodimath, S. R. Inamadar and R. M. James,  
*Spectrochimica Acta Part A: Molecular and Bimolecular spectroscopy*, 69(3),991-997, **2008**.
32. “Simultaneous presence of static and dynamic component in the fluorescence quenching of Bis-MSB by CCl<sub>4</sub> and aniline”.  
**J. Thipperudrappa**, D. S. Biradar, and S. M. Hanagodimath,  
Journal of Luminescence, 124, 45-50, **2007**.
33. “Fluorescence quenching of 2,2” dimethyl-p-terphenyl by carbon tetrachloride in different solvents and temperatures”.  
D. S. Biradar, **J. Thipperudrappa** and S. M. Hanagodimath,  
*Journal of Luminescence*, 126(2), 339-346, **2007**.
34. “Fluorescence quenching studies of 1,3-Diphenyl Benzene”.  
D. S. Biradar, **J. Thipperudrappa** and S. M. Hanagodimath,  
Spectroscopy Letters, 40 (5), 1-13. **2007**.
35. “Fluorescence quenching of BPBD by aniline in benzene-acetonitrile mixtures”.  
**J. Thipperudrappa**, D. S. Biradar, M.T. Lagare, S. M. Hanagodimath,  
S. R. Inamdar and J. S. Kadadevaramath,  
J. Photochem. Photobiol. A: Chem, 177, 89 – 93, **2006**.
36. “Electronic excitation energy quenching of PPD by CCl<sub>4</sub> in different solvents”.  
D.S. Biradar, **J. Thipperudrappa** and S.M. Hanagodimath,  
Journal of Photoscience, 12 (1), 51-54, **2005**.
37. Fluorescence quenching of Bis-MSB by carbon tetrachloride in different solvents.  
**J. Thipperudrappa**, D. S. Biradar, M.T. Lagare, S. M. Hanagodimath, S. R. Inamdar and J. S. Kadadevaramath, Journal of Photoscience, 11(1), 11-17, **2004**

#### National Journals:`

38. Effect of hydrogen bonding and solvent polarity on the fluorescence quenching and dipole moment of 2-methoxypyridin-3-yl-3-boronic acid

- Raveendra M Melavanki, H S Geethanjali, **J Thipperudrappa**, Raviraj A Kusanur, N R Patil and P Bhavya  
 Indian Journal of Pure & Applied Physics, Vol. 56, December 2018, pp.989-996.
39. Study of electron transfer between amines and biologically active 4-aryloxymethyl coumarin  
 U.P. Raghavendra, M. Basanagouda and J.Thipperudrappa  
 Mapana J Sci, 15, 1 (2016), 29-45 ISSN 0975-3303|doi:10.12723/mjs.36.3
40. Study of Role of Silver Nanoparticles on Spectroscopic Properties of a KetocyanineDye  
 J. Thipperudrappa, U. P. Raghavendra, H R Deepa and M.Basanagouda  
 Mapana J Sci, 15, 1 (2016), 1-16 ISSN 0975-3303|doi:10.12723/mjs.36.1
41. Analysis of Solvent Effect in a Ketocyanine dye using Various Solvent Polarity scales and Estimation of dipole moments  
**J. Thipperudrappa**  
 Journal of Engineering, Computers & Applied Research, 3(2), 25-32, **Feb. 2014**.  
 ISSN 2319-5606.
42. Study of Solvent Effect in 2,5-DPAPMC Dye Using Different Solvent Polarity Parameters and Estimation of Dipole Moments  
**J. Thipperudrappa**  
 Mapana J Sci, 14, 1 (2014), 103-119; ISSN 0975-3303|doi:10.12723/mjs.28.7
43. Analysis of Fluorescence quenching of BPBD by aniline in Toluene  
**J. Thipperudrappa** & S. M. Hanagodimath  
 Mapana: Journal of Science: 12 (1), 87-98, **January-March 2013**.  
 ISSN 2250-0480.
44. Quenching of the Fluorescence of a Coumarin Derivative by Aromatic Amines.  
**J. Thipperudrappa**, R.M. Melavanki & Raviraj A Kusnoor  
 Journal of Engineering, Computers & Applied Research, 1(3), 16-21, **Dec. 2012**.  
 ISSN 2319-5606.
45. Fluorescence quenching of anthracene by aniline in different solvents.  
 Annoji Reddy, **J. Thipperudrappa**, D. S. Biradar, M.T. Lagare and S. M. Hanagodimath,  
 Indian Journal of Pure and Applied Physics, 42, 648-652, **2004**.

## II. In National/International Conference Proceedings

- Study of interaction between amines and biologically active 4-aryloxymethyl coumarin  
 U.P. Raghavendra, M. Basanagouda and J. Thipperudrappa  
 Proceedings of National Conference on Modern materials, Devices and Applications (MMDA-2016) held during 7-8, January 2016 at Maharani Science College for Women, Bangalore, pp. 62-65, ISBN: 978-93-5254-637-4.
- Energy Transfer studies between a Laser Dye and Aromatic Amines in Alcohols  
 H. R. Deepa, J. Thipperudrappa and H. M. Sureshkumar  
 Proceedings of Trombay Symposium on Radiation and Photochemistry (TSRP-2014) held from 6-9th January, 2014 at BARC, Mumbai. Pp. 155. ISBN:81-88513-61-X
- Solvents effect on the spectroscopic properties of laser dyes LD-473 and LD-489: Estimation of ground and excited state dipole moments  
 H. R. Deepa, J. Thipperudrappa and H. M. Sureshkumar  
 Proceedings of Trombay Symposium on Radiation and Photochemistry (TSRP-2012) held from 4-7th January, 2014 at BARC, Mumbai. Vol. II, pp. 331-332, ISBN: 81-88513-47-4
- Solvent effect on fluorescence and fluorescence quenching of 7BAMC.  
 R. M. Melavanki and J Thipperudrappa

- Proceedings of International Conference on APSRC-TSRP held during 14-17th September -2010 at Lonavala, India. pp.
5. Fluorescence quenching of DMT by CCl<sub>4</sub> in different solvents  
D.S. Biradar, J. Thipperudrappa, S.M. Hanagodimath, R.M. James, S.R. Inamdar and J.S. Kadadevaramath  
Proceedings of Trombay Symposium on Radiation and Photochemistry (TSRP-2006) held from 5-9th January, 2006 at BARC, Mumbai. Vol. II, 234-235.
  6. Electronic excitation energy quenching of TPB by aniline in different solvents.  
J. Thipperudrappa, D. S. Biradar, S. M. Hanagodimath, R.M. Melavanki, S. R. Inamdar and J. S. Kadadevaramath  
Proceedings of Trombay Symposium on Radiation and Photochemistry (TSRP-2004) held from 8-12th January 2004 at BARC, Mumbai. Vol. II, pp. 27-28.
  7. Ground and excited state dipole moments of BBOT UV laser dye using salvatochromic shift method.  
R.M.Melavanki, J. Thipperudrappa, D. S. Biradar, S.M. Hanagodimath, Y.F. Nadaf, S.R. Inamdar and J.S. Kadadevaramath  
Proceedings of Symposium on Radiation and Photochemistry (TSRP-2004) held from 8-12th January, 2004 at BARC, Mumbai. Vol.II, 25-26.
  8. Analysis of fluorescence quenching of new Indole derivative in different solvents by aniline  
H.M. Suresh Kumar, S.V. Nisti, R.S. Kunabenchi, J. Thipperudrappa and J.S. Biradar  
Proceedings of Trombay Symposium on Radiation and Photochemistry (TSRP-2004) held from 8-12th January 2004 at BARC, Mumbai. Vol. II, 63-64.

## **Papers presented in International/National Conferences**

### **International**

1. **“Need for the Development of General Model for Heat Transfer Mechanisms in Nanoliquids”**  
Fifty Ninth Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2014), (An International Conference) held during 17-20<sup>th</sup> December 2014 at Alliance College of Engineering and Design, Alliance University, Bengaluru, India.
2. **“Influence of Silver Nanoparticles on Photophysical Characteristics of a Biologically Active 4-aryloxymethyl Coumarin”**  
Third International Conference on Advanced Oxidation Processes (AOP-2014) held during 25-28<sup>th</sup> October 2014 at Munnar, Kerala organized by School of Environmental Sciences, Mahatma Gandhi University Kottayam, Kerala.
3. **“Effect of Silver Nanoparticles on Spectroscopic Properties of a Ketocyanine Dye”**  
DAE-BRNS 12<sup>th</sup> Biennial Trombay Symposium on Radiation & Photochemistry (TSRP-2014) held during 6-9, January 2014 at BARC, Mumbai.
4. **“Effect of Aromatic Amines on Emission Properties of 6M3AAC – An Electron Transfer Study”**  
Second International Conference on Advanced Oxidation Processes (AOP-2012) held during 6-8<sup>th</sup> October 2012 at School of Environmental Sciences, Mahatma Gandhi University Kottayam, Kerala.
5. **“Fluorescence Quenching of a Laser Dye Bis-MSB by Aniline in Benzene-Acetonitrile Mixtures”**  
International Conference on “Recent Trends in Material and their Characterization’ (RETMAC - 2010) NITK Suratkal held from 14-15<sup>th</sup> February 2010 at NITK, Suratkal.

6. **“Simultaneous presence of Static and Dynamic Component in Fluorescence Quenching of Bis-MSB by Carbon Tetrachloride and Aniline”**  
Trombay Symposium on Radiation and Photochemistry (TSRP-2006) held from 5-9<sup>th</sup> January, 2006 at BARC, Mumbai.

### **National**

1. **“Modulation of Photophysical Characteristics of a Biologically Active Iodinated 4-Aryloxymethyl Coumarin by Plasmonic Silver Nanoparticles”**  
UGC & KSTA Sponsored Two Day National Conference on Advanced Nanotechnology and its Applications held during 22 – 23, January 2015 at Maharani’s College for Women, Bangalore.
2. **“Solvatochromic studies in biologically active iodinated 4-aryloxymethyl coumarin and estimation of excited state properties”**  
UGC Sponsored National Conference on Atomic Physics, Molecular Physics & X-ray Crystallography held during 8 – 10, January 2015 at Vijaya College, Bangalore.
3. **“Effect of Solvents on Absorption and Fluorescence Properties of a newly Synthesized Coumarin Fluorophore and Estimation of Dipole Moments”**  
UGC Sponsored National Conference on Frontiers in Applied Spectroscopy held during 13 – 14, February 2014 at Maharani’s Science College for Women, Bangalore.
4. **“Effect of Silver Nanoparticles on Photophysical properties of Laser Dyes”**  
National Conference on Luminescence and its Applications (NCLA 2013) held during 8 – 10, January 2013 at PES Institute of Technology, Bangalore.
5. **“Study of Fluorescence Resonance Energy Transfer between Laser Dyes and Rhodamine 6G”**  
National Conference on Luminescence and its Applications (NCLA 2013) held during 8 – 10, January 2013 at PES Institute of Technology, Bangalore.
6. **“Fluorescence Quenching of M-Terphenyl by CCl<sub>4</sub> in Different Solvents”** National Conference on Luminescence and its Applications (NCLA-2005) held from February 2-4, 2005 held at Bangalore University, Bangalore.
7. **“Fluorescence quenching of Bis-MSB by Carbon Tetrachloride in different solvents”**  
15<sup>th</sup> National Symposium on Radiation Physics (NSRP-15) entitled held from 12-14<sup>th</sup> November 2003 at BARC, Mumbai.
8. **“Ground and excited state dipole moments of BPO UV laser dye using Solvatochromic shift method”**  
15<sup>th</sup> National Laser Symposium (NLS-2003) entitled held from 22-24<sup>th</sup> December 2003 at IIT, Kharagpur.
9. **“Synthesis and Characterization of Lead Iron Neobate [Pb(Fe<sub>1/2</sub> Nb<sub>1/2</sub>)O<sub>3</sub>] Relaxor Ferroelectric”**  
National Seminar on Major Landmarks in Physics of 20<sup>th</sup> Century” held at Department of Physics, Gulbarga University, Gulbarga on March 15, 2000.

### **Invited Talks Delivered:**

1. **“Lasers and their Applications in Three Dimensional Photography: Holography”** at GVPP Govt. First Grade College, Hagaribommanahalli (Bellary Dist.) conducted by Internal Quality Assurance Cell-2019 on 3<sup>rd</sup> April 2019.

2. **“A baby step towards sensational science – An Introduction to Nano-Science and its Applications”**: at Veerashaiva College, Ballari conducted by Department of Physics on 21<sup>st</sup> February 2019.
3. **“Laser as a useful tool in Defense, Lithography and Data Storage”**: at RYMEC, Ballari under Special Lecture Series conducted by Department of Physics on 24<sup>th</sup> January 2018.
4. **“Carbon Nanotube: A Potential Nanomaterial for Futuristic fascinating and exciting Applications”**: at SKNG Govt. First Grade College, Gangavathi, Koppal District under Science Open Lecture Series Programme conducted by the college in collaboration with Karnataka Science & Technology Academy (KSTA) on 3<sup>rd</sup> March 2015.
5. **“Nanoscience and Nanotechnology: Basic Understanding and a Journey towards its fascinating Applications”**: at Siddaganga Public School, Chandra Layout, Bangalore under Sri Shivakumara Swamiji Science Lecture Series on 3<sup>rd</sup> November 2014.
6. **“An Overview of Carbon Nanotube based Applications in Nanotechnology”**: at VTU Regional Centre, Gulbarga in VTU-VGST Sponsored Faculty Development Programme on *Role of Teachers: Opportunities and Challenges in Technology* held during 7-10, May 2014.
7. **“A Journey Towards Fascinating Science: Introduction to Nanoscience and its Applications”**: at GVPP Govt. First Grade College, Hagaribommanahalli (Bellary Dist.) conducted under Internal Quality Assurance Cell-2014 on 15<sup>th</sup> February 2014.
8. **“Nanoscience and Nanotechnology for Beginners”**: at Lal Bahudur Shastri Govt. First Grade College, R. T. Nagar, Bangalore during the Inaugural Function of Science Forum on 20<sup>th</sup> September 2011.
9. **“Nanotechnology: Why the world is so fascinated about it?”**: at The Bangalore Science Forum, The National College Science Buildings, Bangalore on 29<sup>th</sup> December 2010.
10. **“Emerging Trends in Applied Physics”**: Six Day Refresher course for Pre-University Teachers jointly organized by Department of Technical Education (DTE) at Krishi Vignana Kendra, Hulakote, Gadag district on 17<sup>th</sup> December 2010.

#### **Chairmanships at National/International Conference/Seminars:**

1. **Resource person**, for Evaluating the Seminar Presentations of the participants of Winter School (Basic Science – ID) organized by UGC-Human Resource Development Centre, Bangalore University, Jnana Bharathi Campus, Bengaluru on Friday, 2<sup>nd</sup> February 2018.
2. **Chairperson** of the Technical session in International Conference on Fluid Dynamics and its Applications (ICFDA-2017) held during 12-14, July 2017 at BNM Institute of Technology, Bengaluru.
3. **Chairperson** of the Technical session in National Conference on Applied Science and Humanities (NCASH-2015) held on 5<sup>th</sup> May 2015 at K.S. School of Engineering & Management, Bangalore.
4. **Chairperson** of the Technical session IIC in International conference on Fluid Dynamics and its Applications during 20-22<sup>nd</sup>, July 2011 at BNM Institute of Technology, Bangalore.
5. **Chairperson** of the Technical session III: Mechanics of Fluids in 52<sup>nd</sup> Congress of The Indian Society of Theoretical and Applied Mechanics (An International Meet) during 14-17<sup>th</sup> Dec. 2007 at B.N.M. Institute of Technology, Bangalore.

#### **Participation in Training courses/Seminars/Workshops**

1. Participated in National Symposium on **“The Internationalization of Higher Education: A Paradigm Shift”** organized by IQAC of Dr.AIT, Bangalore on 18<sup>th</sup> December 2018 under TEQUIP-III.

2. Participated in **4<sup>th</sup> World Summit on Accreditation (WOSA-2018)** held at Hotel The Ashoka, New Delhi organized by National Board of Accreditation during 7-9, September 2018.
3. Participated in Workshop on **“New Model Curriculum for First year B.E./B.Tech. – CBCS Detailed Syllabus (2018-19) as per Outcome-Based Education (OBE) format including Course Outcomes (CO) and Bloom’s Taxonomy”** on 7<sup>th</sup> May 2018 at Bangalore Institute of Technology, Bangalore organized by VTU, Belagavi.
4. Participated in One Day Workshop on **“AICTE Model Curriculum”** for UG and PG Programmes held on 12<sup>th</sup> March 2018 at BMS College of Engineering, Bengaluru.
5. Participated in **“One Day Conference on “Laser Physics and Non-linear Optics”** on 30<sup>th</sup> October 2017 held at Department of Physics, Bangalore Institute of Technology, Bengaluru.
6. Participated in Faculty Development Programme on **“Recent Advances in Material Science”** organized by the Department of Chemistry, BNMIT, Bangalore in association with The electrochemical Society of India, IISc., Bengaluru from 9-13, January 2017.
7. Participated in the Short Course on **“Innovative Teaching Methods”** at BNMIT, Bangalore from 18-23, July 2016.
8. Participated in workshop on **“Preparation for Accreditation by NBA”** from 3-5, December 2015 at BNMIT, Bangalore.
9. Participated in Workshop on **“Quality Initiatives in Technical & Higher Educational Institutions through Accreditation and Assessment (preparation for Accreditation by NBA)”** held in association with FELIP, Bangalore at Govt. Engineering College, Hassan during 1-7, November 2015.
10. Participated in National Workshop on **“National Institutional Ranking Framework (NIRF)”** in association with ELOIT Innovations at Jyothi Nivas College (autonomous), Bangalore on 27<sup>th</sup> November 2015.
11. Participated in FDP Programme on **“Intellectual Property Rights-Significance for Academia in Business & Research”** held in association with Visvesvaraya Trade Promotion Centre, Govt. Of Karnataka at BNM Institute of Technology, Bangalore on 20<sup>th</sup> August 2015.
12. Participated in the UGC & KSTA Sponsored Two Day National Conference on **Advanced Nanotechnology and its Application (NCOANA-2015)** at Maharani’s Science College for Women, Bangalore during 22-23, January 2015.
13. Participated in the UGC Sponsored National Level Conference on **Atomic Physics, Molecular Physics and X-ray Crystallography** at Vijaya College, Bangalore during 8-10, January 2015.
14. Participated in one day Workshop on **Basic science syllabus for B.E. Programme at UBDT College of Engineering, Davangere** on 19<sup>th</sup> August 2014.
15. Participated in Faculty Development Program on **“Internalize Intellectual Property & Strategic Management of Intellectual property Rights”** on 2<sup>nd</sup> March 2012 organized by VTU, Belgaum at BNM Institute of Technology, Bangalore.
16. Participated in National Seminar on **Nuclear Technology for Growth of the Nation (NTGS-2011)** at RNS Institute of Technology, Bangalore on 22<sup>nd</sup> August 2011.
17. Participated in Two day lecture workshop on **Current Trends in Novel Materials** at Christ University, Bangalore during February 4 – 5, 2011.
18. Participated in one day workshop on **Nanoparticles & solid state materials** at New Horizon College of Engineering, Bangalore on 8<sup>th</sup> December 2010.
19. Two months Research programme under Summer Research Fellowship Programme sponsored by IASc (Bangalore), INSA (NewDelhi) and NASI (Allahabad) during June –July 2010 in IPC Department, IISc., Bangalore.
20. Participated in one day Workshop on **Fine tuning of syllabus of Engg. Physics at SLN College of Engineering, Raichur** on 29<sup>th</sup> March 2010.

21. Participated in one week summer school on **Advances in Engineering Physics** from 6<sup>th</sup> June -11<sup>th</sup> June, 2009 at the Department of Physics, NITK, Suratkal.
22. Participated in one day Workshop on Magnetic Materials and their Applications on 28<sup>th</sup> Feb.2009 at the Department of Physics, MSRIT, Bangalore.
23. Participated in one day Symposium on “**Nanotechnology and Smart Materials**” held at PES Institute of Technology, Bangalore September 29, 2007.
24. Participated in One day Seminar on **Nanotechnology** at MVJ Institute of Technology, Bangalore on 19<sup>th</sup> April 2005.
25. Participated in the celebrations of **WORLD YEAR OF PHYSICS – 2005** at Bangalore Institute of Technology, Bangalore from 23 -24<sup>th</sup> November 2005.
26. Participated in Quality improvement programme in “**Instructional Design and Delivery**” conducted by National Institute of Technical Teachers Training and Research, Chennai (MINISTRY OF HUMAN RESOURCE DEVELOPMENT) from 9-14<sup>th</sup> August 2004 at BNM Institute of Technology, Bangalore.
27. Participated in the **National symposium on Radiation and Photochemistry** held at IIT, Kanpur during 3-5, 2003.
28. Participated in the *Indian Association of Physics Teachers XVII National Convention* held from 14 -16<sup>th</sup> November 2002 at the **Sharanabasaveshwar College of Science**, Gulbarga.
29. Participated in the Training program conducted by **University Science Instrumentation Centre**, Gulbarga University, Gulbarga during the academic year 1998 –1999.
30. Participated in the Third School on *The Physics of Beams* held from 28<sup>th</sup> December 1998 to 8<sup>th</sup> January 1999 at the **Centre for Advanced Technology**, Indore.

#### **Visits Abroad:**

1. Visited JSS Academy of Technical Education, **Mauritius** from 17<sup>th</sup> June 2011 to 23<sup>rd</sup> June 2011 as Deputy Chief Superintendent for the conduction of B.E. Examinations (June 2011) of Visvesvaraya Technological University, Belgaum, Karnataka, India.

#### **Personal Details:**

- **Date of Birth:** 01 - 06 –1976; **Sex:** Male.
- **Birth Place:** Javuku (Village), Hospet (Talluk), Bellary (District)
- **Family Details:** Wife: Geeta J, Daughters: Arpita and Tanmayee
- **Passport Number:** **R7135954** (valid till 21<sup>st</sup> December 2027)

6<sup>th</sup> June 2019

**J.THIPPERUDRAPPA**

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