

# Dr. Manjunath H.R. M.Sc., Ph.D.

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**Contact Information** #365, 3<sup>rd</sup> Cross  
1<sup>st</sup> Main  
Nethajinagar, Alanahalli  
Mysore 570 011  
Karnataka, INDIA  
**Voice:** +91 98864 64177 (M)  
**E-mail:** [manju.phy.11@gmail.com](mailto:manju.phy.11@gmail.com)

**Personal details** Date of Birth October 11, 1980  
Father's Name Raju H.G.  
Nationality Indian  
Gender Male  
Marital Status Married  
Languages Known to read & write English, Kannada and Hindi

**Education** \* **Ph.D.**, Department of Studies in Physics, University of Mysore, Mysore, Karnataka.  
➤ **Research Topic:** *Crystal and molecular structure studies of some medically important molecules.*  
\* **M.Sc.**, Department of Studies in Physics, University of Mysore, Mysore, Karnataka, June 2003.  
\* **B.Sc.**, (PCM) Yuvaraja's College, University of Mysore, Mysore, Karnataka, June 2001.

**Professional Snapshot** ➤ Assistant Professor and Head, Department of Physics, Sampurna Institute of Technology and Research (SITAR), Belekere, Channapatna, Ramangaram, from **August 2011–till date**  
➤ Fellowship, Research Fellowship in Science for Meritorious Students (RF-SMS), UGC, New Delhi, from **March 2010–August 2011**  
➤ Lecturer, Sarada Vilas College, Mysore, Karnataka, from **June 2004–Nov 2009**  
➤ Lecturer, JSS Pre-University College for Women, Saraswathipuram, Mysore, Karnataka, from **July 2007–March 2009**  
➤ Handled the classes for M.Sc. students, at Department of Studies in Physics, University of Mysore, Managasagangotri, Mysore, Karnataka, from **August 2010–May 2011.**

**Number of research publications** 23. (List attached)

<b>Research Interests</b>	X-ray crystallography and New materials, Liquid Crystals, Biological and drug molecules and Structure–property correlation.
<b>Strengths</b>	<ul style="list-style-type: none"> <li>* Good verbal and written communication skills, Ability to deal with people diplomatically, Willingness to learn, Team facilitator.</li> <li>* Excellent communication, organization and time management skills. Strong multi-tasking abilities, needing little or no supervision. Can work well both independently and as well as a contributing member of the team.</li> <li>* Proficient in <b>Linux, Windows 98/2000/XP</b> and Installation, maintenance of softwares pertaining to Windows, Linux and crystallography. Applied experience in networking of computers.</li> <li>* Dedicated and a self-motivated individual having a sound background in X-ray crystallography, with extensive hands-on experience in data collection and structure refinement. Have collected the data and solved the structures for more than 50 samples at the <b>National Single Crystal X-ray Diffractometer Facility</b>.</li> </ul>
<b>Objective</b>	To be associated with an organization that provides me an opportunity to show my skills, improve my knowledge with the latest trends to be a part of the team that works dynamically towards the growth and satisfaction thereof.
<b>Skill sets</b>	Familiar in handling Four Circle and Image Plate Diffractometers for X-ray diffraction data collection and alignment (including optical and mechanical). Know in and outs of data processing, instrument controlling and structure determination by using softwares viz., DENZO, DIP3201, SHELXS97, SHELXL97, DIRDIFF, SIR92, SIR97, maXus, Mercury, Platon etc. Experience in Structure property correlation of medicinally and technologically important materials. Have collected the data and solved the structures for more than 50 samples which include Organic, Inorganic and Metal–organic compounds.

## References

### **Prof. J. Shashidhara Prasad**

*Ph.D., CPhys, FInstP*

Vice-Chancellor, Sri Sathya Sai Institute of Higher Learning

Prasanthi Nilayam, Andrapradesh, India

Former Vice-Chancellor, University of Mysore

Professor of Physics

☎ +91 8555 289982

✉ [prasad\\_1947@yahoo.com](mailto:prasad_1947@yahoo.com)

### **Prof. M. A. Sridhar**

Professor of Physics

Department of Studies in Physics

University of Mysore

Manasagangotri

Mysore 570 006

☎ +91 821 2419333

✉ [mas@physics.uni-mysore.ac.in](mailto:mas@physics.uni-mysore.ac.in)

## List of Scientific Publications

PL-1

1. Crystal and molecular structure studies of a novel 1-Benzhydrylpiperazine derivative: 1-Benzhydryl-4-(4-chloro-2-fluoro-benzenesulfonyl)-piperazine: Naveen S., Ananda Kumar C.S., **Manjunath H.R.**, Vinaya K., Benaka Prasad S.B., Sridhar M.A., Rangappa K.S. and Shashidhara Prasad J., *Mol. Cryst. Liq. Cryst.*, **503** (2009) 151.
2. Microwave assisted synthesis and crystal structure of 1-(4-Chlorophenyl)-4,5-diphenyl-2-(3,4,5-trimethoxyphenyl)-1H-imidazole: Ali Saberi, **Manjunath H.R.**, Naveen S., Mahadeva Prasad T.N., Rangappa K.S., Sridhar M.A. and Shashidhara Prasad J., *Mol. Cryst. Liq. Cryst.*, **515** (2009) 199.
3. Synthesis and Crystal Structure of S-ethyl-2(tert-butoxycarbonylamino)-4-methyl-pentanethioate: Dinesh B., **Manjunath H.R.**, Naveen S., Abiraj K., Ramesh Baba A., Channe Gowda D., Sridhar M.A. and Shashidhara Prasad J., *Mol. Cryst. Liq. Cryst.*, **517** (2010) 161.
4. 4-Nitro-2-phenoxyaniline: **Manjunath H.R.**, Shreenivasa M.T., Mahendra M., Mohan Kuamar T.M., Kumara Swamy B.E. and Sridhar M.A., *Acta. Cryst.*, **E66** (2010) o1533.
5. N-[4-Cyano-3(trifluoromethyl)phenyl]-2-ethoxybenzamide: Naveen S., Basappa, **Manjunath H.R.**, Sridhar M.A., Shashidhara Prasad J. and Rangappa K.S., *Acta. Cryst.*, **E66** (2010) o1255.
6. Synthesis and Crystal Structure of a Novel Bioactive 1-Benzhydrylpiperazine Derivative: Naveen S., **Manjunath H.R.**, Vinaya K., Benaka Prasad S.B., Ananda Kumar C.S., Sridhar M.A., Rangappa K.S. and Shashidhara Prasad J., *Str. Chem. Comm.*, **1** (2010) 33.
7. Crystal and Molecular Structure Studies of N-(4-Chloro-3-(trifluoromethyl)phenyl)-2-methoxybenzamide: Basappa, **Manjunath H.R.**, Nanjunda Swamy S., Priya B.S., Naveen S., Sridhar M.A., Rangappa K.S. and Shashidhara Prasad J., *Str. Chem. Comm.*, **1** (2010) 70.
8. N-[4-Cyano-3-(trifluoromethyl)phenyl]-2-methoxybenzamide: Nanjunda Swamy S., **Manjunath H.R.**, Priya B.S., Basappa, Sridhar M.A. and Rangappa K.S., *Acta. Cryst.*, **E67** (2011) o198.
9. 7-chloro-5-cyclopropyl-9-methyl-5,10-dihydro-4,5,6,10-tetraaza-dibenzo [a, d]cyclohepten-11-one: Naveen S., Thimmegowda N.R., **Manjunath H.R.**, Ananda Kumar C.S., Chandrappa, Sridhar M.A., Shashidhara Prasad J. and Rangappa K.S., *Acta. Cryst.*, **E67** (2011) o1445.
10. Crystal growth and characterization of novel chalcone derivative: 1-(2'-Thiophen)-3-(2,3,5-trichlorophenyl)-2-propen-1-one: **Manjunath H.R.**, Rajesh Kumar P.C., Naveen S., Sridhar M.A., Ravindrachary V., Shashidhara Prasad J., and Prakash Karegoudar., *J. Cryst. Grow.*, **327** (2011) 161.

11. Optical and structural properties of chalcone NLO single crystals: Rajesh Kumar P.C., Ravindrachary V., Janardhana K., Manjunath H.R., Prakash Karegouda, Vincent Crasta, and Sridhar M.A., *J. Mol. Struct.*, **1005** (2011) 1.
12. Crystal and molecular structure studies of 1'-Benzyl-8-(4-fluorobenzyl)-8-azaspiro[bicyclo(3-2-1)-octane-3-4'-imidazolodine]-2',5'-dione: **Manjunath H.R.**, Naveen S., Ananda Kumar C.S., Benaka Prasad S.B., Sridhar M.A., Shashidhara Prasad J. and Rangappa K.S., *J. Struct. Chem.* **52** (2011) 986.
13. Synthesis and structural studies of Ethylnaphtho[2,1-b]furan-2-carboxylate: Shruthi E., Madan Kumar S., Kusuma K., Manjunath H.R., Vaidya V.P., Sridhar M.A., and Lokanath N.K., *X-ray Structure Analysis Online*, **28** (2012) 23.
14. Crystal and molecular structure studies of 1'-Benzyl-8-(3-fluorobenzyl)-8-azaspiro[bicyclo(3-2-1)-octane-3-4'-imidazolodine]-2',5'-dione: **Manjunath H.R.**, Naveen S., Ananda Kumar C.S., Benaka Prasad S.B., Sridhar M.A., Shashidhara Prasad J. and Rangappa K.S., *J. Chem. Cryst.*, **42** (2012) 505.
15. Synthesis and crystal structure of Methyl 5-acetyl-2,6-dimethyl-4(3-nitrophenyl)-1,4-dihydropyridine-3-carboxylate: **Manjunath H.R.**, Naveen S., Priti Adlakha., Anamik Shah., Sridhar M.A. and Shashidhara Prasad J., presented at "53<sup>rd</sup> DAE Solid State Physics Symposium" held at BARC, Mumbai, 16<sup>th</sup>-20<sup>th</sup> December, 2008.
16. Synthesis, characterization, crystal and molecular structure analysis of a novel 1-benzhydryl piperazine derivative: 1-Benzhydryl-4-(2-nitro-benzene sulfonyl)-piperazine: Naveen S., Vinaya K., **Manjunath H.R.**, Ananda Kumar C.S., Sridhar M.A., Shashidhara Prasad J. and Rangappa K.S., presented at "53<sup>rd</sup> DAE Solid State Physics Symposium" held at BARC, Mumbai, 16<sup>th</sup>-20<sup>th</sup> December, 2008.
17. Crystal and molecular structure studies of 1'-Benzyl-8-(4-fluorobenzyl)-8-azaspiro[bicyclo(3-2-1)-octane-3-4'-imidazolodine]-2',5'-dione: **Manjunath H.R.**, Ananda Kumar C.S., Sridhar M.A., Rangappa K.S. and Shashidhara Prasad J., presented at "54<sup>th</sup> DAE Solid State Physics Symposium" held at The Maharaja Sayajirao University of Baroda, Vadodara, 14<sup>th</sup>-18<sup>th</sup> December, 2009.
18. Synthesis and characterization of organic NLO compound; Rajesh Kumar P.C., Ravindrachary V., Janardhana K., **Manjunath H.R.** and Prakash Karegouda, presented at "55<sup>th</sup> DAE Solid State Physics Symposium" held at Manipal University, Manipal, 26<sup>th</sup>-30<sup>th</sup> December, 2010.
19. Crystal growth, NLO properties of a pseudo symmetric organic crystal: Rajesh Kumar P.C., Ravindrachary K., Janardhana K., **Manjunath H.R.**, Vincent Crasta, and Sridhar M.A., presented at the "International Conference on Advanced Materials and its Application-2011" held at Kalasalingam University, Tamilnadu, 4<sup>th</sup>-5<sup>th</sup> March, 2011.

20. Optical and structural properties of organic NLO single crystal: Rajesh Kumar P.C., Ravindrachary K., Janardhana K., **Manjunath H.R.**, Vincent Crasta, and Prakash Karegoudar, presented at the “International Conference on Materials for Advanced Technologies” held at Suntec, Singapore, 26<sup>th</sup> June–1<sup>st</sup> July, 2011.
21. Crystal and molecular structure studies of 1'-Benzyl-8-(3,4-difluorobenxyl)-8-azaspiro[bicyclo-[3.2.1]octane-3,4'-imidazolodine]-2',5'-dione: **Manjunath H.R.**, Anand Kumar C.S., Naveen S., Sridhar M.A., Rangappa K.S. and Shashidhara Prasad J., *J. Chem. Cryst.* (Communicated).
22. Synthesis and Crystal Structure of [1-(3,5-Dimethyl-2,3-dihydro-isoxazole-4-sulfonyl)-piperidin-4-yl]-diphenyl-methanol: **Manjunath H.R.**, Benaka Prasad S.B., Naveen S., Ananda Kumar C.S., Vinaya K., Sridhar M. A., Shashidhara Prasad J. and Rangappa K.S., *J. Mol. Str.* (Communicated).
23. Crystal structure of N-[2,3-bis-(methoxycarbonyl)-guanido]-5-(phenylthio)-phenyl]-2-methoxyacetamide: **Manjunath H.R.**, Naveen S., Thimmegowda N.R., Sridhar M.A., Shashidhara Prasad J. and Rangappa K.S., *J. Anal. Sci.* (Communicated).