

Professor Hemmige S. Yathirajan

Manasagangothri, Mysore-570 006, India



PERSONAL

Date of birth : June 8th, 1956
Marital status : Married
Telephone : 91-821-2419656
Fax : 91-821-2419363
E-mail : yathirajan@hotmail.com
Qualifications : **B. Sc. (UOM-1974) : M.Sc. (UOM-1976) : Ph. D. (UOM-1981):**
Post-doctoral Research Associate (NSF) (Washington Univ., St. Louis, MO, USA - 1990-93)

DESIGNATION : **Professor of Chemistry -- August 2000**
Reader in Chemistry -- August 1992
Lecturer in Chemistry -- October 1976

TEACHING EXPERIENCE

: **Teaching M. Sc. Chemistry, M. Sc. Organic Chemistry, M. Phil. Chemistry, M. Sc Integrated Chemistry students. Taught (i)Advanced Chemical Kinetics, (ii) Advanced Electrochemistry, (iii)Advanced Quantum Chemistry, (iv) Molecular Symmetry and Point Groups, (v) Photo Chemistry, (vi) Radiation Chemistry and (vii) X-ray Crystallography for M. Sc. and M. Phil. Courses.**

ADMINISTRATIVE EXPERIENCE

: **Deputy Director, Academic Staff College, UOM (1997-98). Conducted more than 25 courses for University and college teachers.**

RESEARCH EXPERIENCE:

Actively engaged in Research since 1976
(i) Crystal and molecular structure studies of some novel organic and inorganic compounds
(ii) Photolysis of some organic compounds in the liquid phase
(iii) Kinetics and mechanism of oxidation of some biologically active and pharmaceutical compounds with aromatic sulphonyl haloamines
(iv) Analytical studies on organic compounds of pharmaceutical importance

FIELD OF SPECIALIZATION:

Chemical kinetics, Photochemistry, Radiation chemistry, Spectroscopy, Quantum chemistry, Molecular Symmetry, Disorder and Polymorphism in crystals and X-ray Crystallography.

**POST-DOCTORAL RESEARCH
EXPERIENCE:**

Worked on Kinetic isotope effects and isotope exchange Reactions (involving ^{13}C , ^{18}O & ^{15}N) under Prof. Joseph Kurz, at the Department of Chemistry, Washington University, St. Louis, MO-63130, USA, from 1990 to 1993.

PROJECT

: COLLABORATIVE RESEARCH AROUND THE WORLD (INDIA, CHINA, GERMANY, ITALY, MALAYSIA, POLAND, SWEDEN, TURKEY, UK & USA)

RESEARCH PUBLICATIONS: 400 (as on Jan 2010 - since 1979)

Papers presented at conferences/symposia: 40 (as on Jan 2010 - since 1979)

Ph.D. students Guided successfully : 07

Ph. D. students working: 06

M.Phil. Guided : 02

Details of Ph. D. students under my guidance

- 1. K. N. Mohana -- Awarded Ph. D. in 1998
"PHYSICO-CHEMICAL ASPECTS OF BROMAMINE-B"
- 2. P. Nagendra -- Awarded Ph. D. in Dec 2002
"PHYSICO-CHEMICAL ASPECTS OF SODIUM SALT OF N-BROMO-4-METHYLBENZENE SULPHONAMIDE"
- 3. C. R. Raju -- Awarded Ph. D. in 2005
"PHYSICO-CHEMICAL ASPECTS OF SOME COMPOUNDS CONTAINING NITROGEN"
- 4. B. Nagaraj -- Awarded Ph. D. in 2007
"STRUCTURAL STUDIES OF SOME PHARMACEUTICALS AND PHARMACEUTICAL INTERMEDIATES BY X-RAY CRYSTALLOGRAPHIC METHOD"
- 5. H. G. Anil Kumar -- Awarded Ph. D. in 2007
"CRYSTAL STRUCTURE STUDIES OF SOME ORGANIC MOLECULES"
- 6. R. S. Narase Gowda -- Awarded Ph. D. in 2008
"CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME PHARMACEUTICAL COMPOUNDS AND PHARMACEUTICAL INTERMEDIATES"
- 7. S. Bindya -- Awarded Ph. D. in Oct 2009
"SYNTHESIS AND CRYSTAL STRUCTURE STUDIES OF SOME ORGANIC COMPOUNDS"
- 8. A. N. Mayekar -- Registered for Ph. D. in Oct 2006
"SYNTHESIS AND CHARACTERIZATION OF SOME NEW BIOACTIVE HETEROCYCLIC AND RELATED COMPOUNDS"
- 9. M. T. Swamy -- Registered for Ph. D. in Apr 2008
"CRYSTAL STRUCTURE STUDIES OF SOME CHALCONES, SCHIFF BASES AND COMPOUNDS OF PHARMACEUTICAL AND INDUSTRIAL IMPORTANCE"
- 10. Q. N. M. Hakim Al-arique -- Registered for Ph. D. in July 2008
"SYNTHESIS AND CRYSTAL STRUCTURE STUDIES OF SOME ORGANIC COMPOUNDS OF PHARMACEUTICAL IMPORTANCE"
- 11. C. S. Chidan Kumar -- Registered for Ph. D. in Aug 2008
"CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME CHALCONES, SCHIFF BASES, PHARMACEUTICAL INTERMEDIATES AND RELATED COMPOUNDS"
- 12. A. S. Praveen -- Enrolled for Ph. D. in Nov 2009
"NEW SYNTHETIC ROUTES IN ORGANIC CHEMISTRY"
- 13. M. S. Siddegowda -- Enrolled for Ph. D. in Nov 2009
"NOVEL SYNTHETIC METHODS IN ORGANIC CHEMISTRY"

Details of M. Phil. Students

- 1. A. B. Mamatha Devi -- Awarded M. Phil. in 1996
“Reaction of chloramine-B with Cr(III), Al(III) and Fe(III) solutions - A conductometric and pH study”
- 2. L. P. Suchitra -- Awarded M. Phil. in 2009
“Synthesis and Crystal Structure Studies of 2-Bromo-*N'*-[(*ZZ*)-butan-2-ylidene]-5-methoxy benzohydrazide”

AWARDS : Sir C.V.Raman Young Scientist Research Award for Chemical Sciences presented by Karnataka State Council for Science & Technology (KSCST), Govt. of Karnataka for the year 2000.

CITATIONS More than 1000 citations

ACHIEVEMENTS

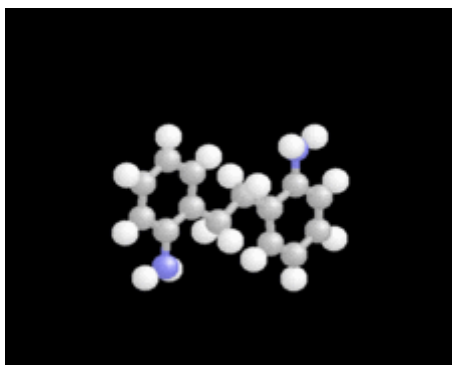
- (i) Two research articles appeared as cover pages in *Acta Crystallographica E*, 2005 (UK) and one in *Acta Crystallographica C*, 2006 (UK).
- (ii) One research article appeared in *IUCr news letter*, vol.13(1), 2005
- (iii) Two research articles appeared in *Monographs/Periodicals in Organic Reaction Mechanisms*, John Wiley & Sons – 1998; *Photochemistry*, Vol. 33, Royal Society of Chemistry – 2002
- (iv) Two Research articles indexed in NATIONAL DATA RADIATION CENTRE, USA

Acta Crystallographica Section E

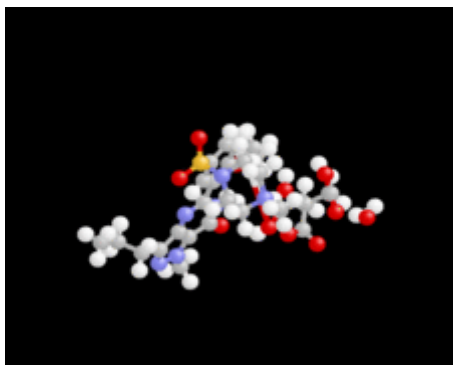
Structure Reports Online

Volume 61, Part 4 (April 2005)

[author index](#) [volume author index](#)



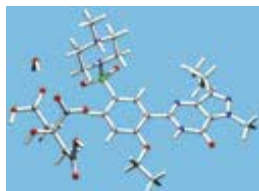
Cover illustration: This relatively simple molecule is a **rare example of a centrosymmetric molecule** crystallizing in a general position in a non-centrosymmetric crystal structure. See [Narasegowda, Malathy Sony, Mondal, Nagaraj, Yathirajan, Narasimhamurthy, Charles, Ponnuswamy, Nethaji & Rathore](#) [*Acta Cryst.* (2005), E61, o843-o845].



Cover illustration: Sildenafil citrate is better known as the anti-impotence drug Viagra. The crystal structure has not been reported previously, but a monohydrate has now been characterized crystallographically. See Yathirajan, Nagaraj, Nagaraja & Bolte [*Acta Cryst.* (2005), E61, [o489-o491](#)].

IUCr news letter 2005 --- Sildenafil citrate monohydrate

H. S. Yathirajan, B. Nagaraj, P. Nagaraja and M. Bolte



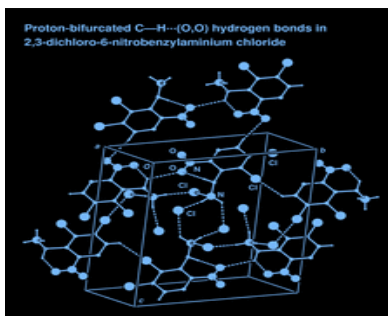
The name of the anti-impotence drug Viagra is well known to many people, even to those who have nothing to do with chemistry or pharmacology. A number of investigations on this compound, with the pharmaceutical name sildenafil citrate, have already been published. As the knowledge of the molecular conformation is essential for understanding structure–activity relationships, it is surprising that its crystal structure has not been previously reported. This paper closes this gap by reporting the crystal structure of the monohydrate.

Acta Cryst. (2005). E61, o489–o491

Acta Crystallographica Section C

Crystal Structure Communications-----Volume 62, Part 1 (January 2006)

Cover illustration: The intermolecular interactions in 2,3-dichloro-6-nitrobenzylaminium chloride, including the three-center hydrogen-bond configuration. For clarity, only relevant H atoms and intramolecular interactions are shown. See [Rathore, Narasimhamurthy, Vijay, Yathirajan & Nagaraja \[Acta Cryst. \(2006\), C62, 036-038\]](#).



RECOGNITION

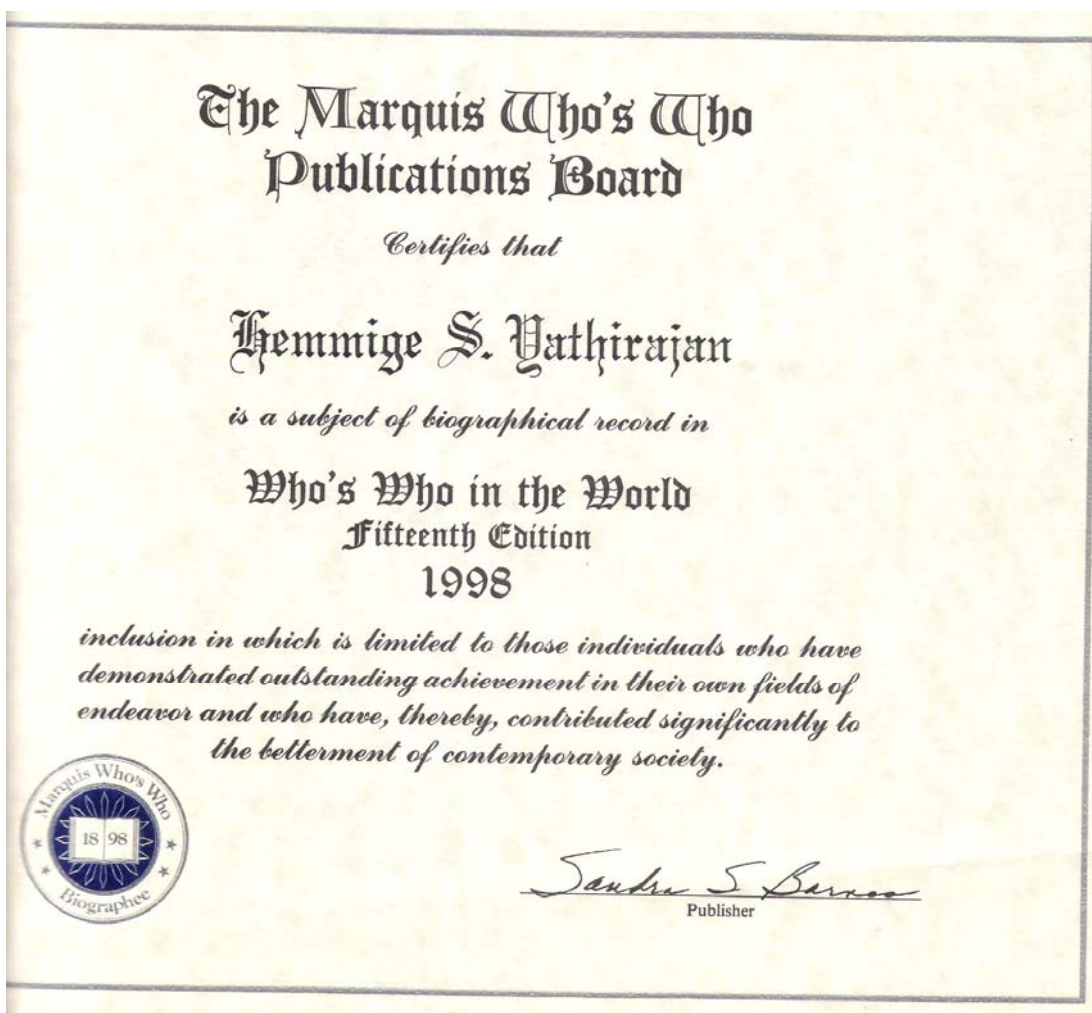
- (i) Biography appeared in Marquis “Who’s Who in the World-1998”
(ii) Member – American Chemical Society (since 1992 till today)
(iii) Affiliate Member – IUPAC (since 1992 till today)
(iv) Fellow – Indian Chemical Society (since 1994 till today)

OTHERS

Evaluated the Ph. D. thesis of many Indian Universities.
Chaired a Session at the ‘41st Annual Convention of Chemists’ held at University of Delhi, Delhi, from Dec 23-27, 2004.
Collaborative research with Scientists from India, UK, USA, Germany, China, Poland, Italy, Malaysia, Turkey and Sweden.
Member of BOA for Karnatak & Kuvempu Universities.
Worked as in-charge Chairman of the department on several occasions.
Involved in framing the syllabus for M. Sc. Chemistry on several occasions.
Participated & co-ordinated many symposia held in the DOS in Chemistry since 1976.
Participated in several refresher courses in UOM, IISc and Waltair.
Worked as a Resource person for many refresher courses in Chemistry and course co-ordinator for the 10th Refresher Course in Chemistry conducted by ASC, UOM, Mysore from Sept 18, 2001 to Oct 08, 2001.
Delivered lectures for refresher courses conducted by Academic Staff College, Univ. of Mysore, Mysore.
Worked as Chairman, BOE in Chemistry, Univ. of Mysore, Mysore, during 2007-08.
Worked as Member, BOS in Chemistry, Univ. of Mysore, Mysore, during 2001-04.
Worked as Member -- BOE in Chemistry for Bangalore, Mangalore, Kuvempu, Karnatak and Gulbarga Universities.

Worked as Member, BOS in Chemistry, Kuvempu Univ,
Shankaraghatta, during 2005-08.
Worked as a staff secretary for Chemical Society, DOS in
Chemistry, Manasagangotri, Mysore on many occasions since 1976.
Involved in stock verification of the department during several
years.
Worked as executive committee member of MUPGDTA as well as
MUTA.
Referee for International Journal of Chemical Kinetics, Journal of
Solutional Chemistry.

Biography appeared in Marquis "Who's Who in the World-1998"



Member – American Chemical Society (since 1992)



American Chemical Society

This certificate is presented to

Prof. Hemmige S. Yathirajan

IN RECOGNITION OF MEMBERSHIP

Of the American Chemical Society and is entitled to all rights and privileges associated therewith as specified in the Constitution, By-Laws, and Regulations of the Society.

A handwritten signature in black ink, reading "William F. Carroll, Jr.", positioned above a horizontal line.

William F. Carroll, Jr.
ACS President, 2005

A handwritten signature in black ink, reading "Madeleine Jacobs", positioned above a horizontal line.

Madeleine Jacobs
ACS Executive Director



Sir C.V. Raman Young Scientist Research Award for Chemical Sciences – 2000

SIR. C.V. RAMAN AWARD FOR YOUNG SCIENTISTS



GOVERNMENT OF KARNATAKA

Dr. Hemmige S. Yathirajan & Dr. P. Nagaraja

*Jointly awarded Sir. C.V. Raman Award for the
year 2000 in appreciation and recognition
of his exceptional contribution to*

Chemical Science

on 28th February 2003



Prof. G. Mehta
Director,
Indian Institute of Science
and
Vice President, KSCST



S.M. Krishna
Chief Minister
Government of Karnataka
and
President, KSCST

SOME IMPORTANT PUBLICATIONS:

1. Int. J. Pharm., **325**, 113-120, **2002**.
2. Anal. BioChem., **312**, 157-161, **2003**.
3. Acta Cryst. **C60**, o821-o823, **2004**.
4. J. Chem. Cryst., **35(3)**, 211-215, **2005**.
5. Anal. Sci., **21**, x1-x2, **2005**.
6. Acta Cryst. **C61**, o177-o180, **2005**.
7. Acta Cryst. **E61**, o489-o491, **2005**.
8. Acta Cryst. **E61(4)**, o843-o845, **2005**.
9. Acta Cryst. **E61(11)**, o3810-o3812, **2005**.
10. Acta Cryst. **E62(11)**, o5010-o5012, **2006**.
11. Cryst. Res. Technol. **41**, 299-303, **2006**.
12. Acta Cryst. **E63 (11)**, o4362, **2007**.
13. Acta Cryst. **E63(11)**, o4308-o4309, **2007**.
14. Acta Cryst. **E64 (1)**, o119, **2008**.
15. Acta Cryst. **E64 (1)**, o117-o118, **2008**.

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SPECIAL COURSES ATTENDED

- **Winter School on “Chemical Applications of Statistical Mechanics” held at IIT, Bombay, India from Dec 12 – 31, 1988.**
- **“Chemical Laboratory Safety Course” held at the Department of Chemistry, Washington univ., St.louis, MO, USA, from August 30, 1990 to Nov 15, 1990.**
- **“Kinetics & Mechanism” by Prof. J. L. Kurz, at the Department of Chemistry, Washington univ., St.louis, MO, USA, from Jan 14, 1991 to April 26, 1991.**
- **“Introduction to NMR” by Prof. Schafer at the Department of Chemistry, Washington univ., St.louis, MO, USA, from Jan 13, 1992 to April 24, 1992.**
- **“Refresher Course in Chemistry” held at Academic Staff College, Andhra Univ., Vishakapatnam, from Nov 8, 1993 to Dec 4, 1993.**
- **“Refresher Course in Chemistry” held at Academic Staff College, Univ. of Mysore, Mysore, from Sept 19, 1994 to Oct 12, 1994.**
- **“National Workshop on Radiochemistry and Application of Radioisotopes” held at the DOS in Chemistry, UOM, Mysore from Nov 27, 1995 to Dec 4, 1995.**
- **“Advanced refresher Course on Solid state and materials chemistry” held at Solid State and Structural Unit, IISc, Bangalore, from Feb 1 – 28, 2001.**

Some Papers presented at Conferences / Symposia / Meetings

- 1. Jerry P. Jasinski**, Ray J. Butcher, L. Mallesha, K. N. Mohana, H. S. Yathirajan and B. Narayana
INOR 487 - Unusual hydrogen bonding effects in biomolecules
238th American Chemical Society (ACS) National Meeting, Washington, DC, USA, August 16-20, 2009.
(Bioinorganic Chemistry: Enzymes and Coenzymes - Division of Inorganic Chemistry)
7:00 PM-9:00 PM, Tuesday, August 18, 2009 Walter E. Washington Convention Center - Hall D.
- 2. Jerry P. Jasinski**, Ray J. Butcher, L. Mallesha, K. N. Mohana, H. S. Yathirajan and B. Narayana
INOR 486 - Unique hydrogen bonding effects in biomolecules
238th American Chemical Society (ACS) National Meeting, Washington, DC, USA, August 16-20, 2009.
(Bioinorganic Chemistry: Enzymes and Coenzymes - Division of Inorganic Chemistry)
7:00 PM-9:00 PM, Tuesday, August 18, 2009 Walter E. Washington Convention Center - Hall D.
- 3. Jerry P. Jasinski**, Ray J. Butcher, Anil N. Mayekar, H. S. Yathirajan and B. Narayana
INORG 138 - Structures of three chalcones derived from 6-methoxy-2-naphthaldehyde
238th American Chemical Society (ACS) National Meeting, Washington, DC, USA, August 16-20, 2009.
(Bioinorganic Chemistry: Enzymes and Coenzymes - Division of Inorganic Chemistry)
7:00 PM-9:00 PM, Sunday, August 16, 2009 Walter E. Washington Convention Center -- Hall D.
- 4. Jerry P. Jasinski**, Ray J. Butcher, H. S. Yathirajan, B. Narayana, L. Mallesha and K. N. Mohana
INORG 137 - Intermolecularly associated carboxylic acid dimers in the supramolecular assembly of 1,4-benzodioxane 2-carboxylic acid
238th American Chemical Society (ACS) National Meeting, Washington, DC, USA, August 16-20, 2009.
(Bioinorganic Chemistry: Enzymes and Coenzymes - Division of Inorganic Chemistry)
7:00 PM-9:00 PM, Sunday, August 16, 2009 Walter E. Washington Convention Center -- Hall D.
- 5. B. K. Sarojini, B. Narayana, J. Indira**, H. S. Yathirajan (**Best paper Award-Presented by Mrs.Indira**)
Synthesis and studies on crystal structure of new (2E)-3-(biphenyl-4-yl)-1-(4-chlorophenyl)-prop-2-en-1-one (poster No. 15)
National conference on emerging Areas in Chemical and Biological sciences (NCEACB-2007) 23-24, March, 2007, held at Kuvempu University

6. B. K. Sarojini, B. Narayana, J. Indira and H.S. Yathirajan
'Studies on structure activity relationship [SAR] for non linear optical [NLO] property of new halo substituted chalcone derivatives'

VIII International Conference on Optoelectronics, Fiber Optics and Photonics
December 13-16, 2006 ' Photonics-06' held at University of Hyderabad, INDIA,
Paper No. NLO-25, Page No. 353-357.

7. Yathirajan, H. S., Anilkumar, H. G., Narasegowda, R.S., Nagaraj, B., Nagaraja, P., Narasimhamurthy, T., Lynch D. E. and Rathore R. S.

"Structures and Conformations of Hypoglycemic tricyclic benzofuran analogs" (P-180)

"Joint Conference on Building Bridges, Forging Bonds for 21st Century Organic Chemistry and Chemical Biology (ACS-CSIR-OCCB-21st century- 2006)", held at the NCL-Pune, Pune, from Jan 7-9, 2006.

8. C. R. Raju, H. S. Yathirajan, M. N. Ponnuswamy, K. Palani

"PHY-OP-25 -- "Crystal and molecular structure studies of 4-[(3-allyl-2n-butyl-5-mercapto-3H-imidazol-4-ylmethylene)-amino-5-phenyl-1H-pyrazole-3-thiol" – (CCDC No. 245939)"

'41st Annual Convention of Chemists', held at the University of Delhi, Delhi, from Dec 23-27, 2004.

9. H. S. Yathirajan, C. R. Raju, M. N. Ponnuswamy, K. Palani

"PHY-OP-27 - Crystal structure studies of 5-(4'-methyl-1,1'-biphenyl-2-yl)-1H-tetrazole" (CCDC No. 223082).

'41st Annual Convention of Chemists', held at the University of Delhi, Delhi, from Dec 23-27, 2004.

10. H. S. Yathirajan

"Kinetics & Mechanism of oxidation of various substrates by bromamine-T and bromamine-B: Bottleneck and realities"

Indian Council of Chemists held at the DOS in Chemistry, UOM, Mysore, from Dec 22-24, 2002.

11. R.A. Thirumuraghan, M.N. Ponnuswamy, P. Ambalavanan & H. S. Yathirajan

"Crystal and molecular Structure of 2-butyl-5chloro-3H-imidazole-4-carbaldehyde"

XXXI National Seminar on Crystallography (NSC-2001) held at BARC, Mumbai from June 19-22, 2001.

12. M.N. Ponnuswamy, R.A. Thirumuraghan, P. Ambalavanan & H. S. Yathirajan

"Crystal and molecular Structure of 2-chloro-3-(β-nitrovinyl)quinoline"

XXXI National Seminar on Crystallography (NSC-2001) held at BARC, Mumbai from June 19-22, 2001.

13. P. Ambalavanan, M.N. Ponnuswamy, R.A. Thirumuraghan & H. S. Yathirajan

"Crystal and molecular Structure of a triazole derivative"

XXXI National Seminar on Crystallography (NSC-2001) held at BARC, Mumbai from June 19-22, 2001.

- 14. P. Nagendra, H. S. Yathirajan, K. N. Mohana & K.S.Rangappa**
“**Silver Salt of N-bromo-4-methylbenzene Sulphonamide as a new oxidimetric reagent**”
Indian Council of Chemists held at the Department of Chemistry, Kuvempu University, Shimoga from November 27-29, 2000
- 15. C.R. Raju, K.N.Mohana, H. S. Yathirajan & K.S.Rangappa**
“**Determination of quantum yield for the photolysis of aqueous solution of chloramine-B**”
37th Annual Convention of Chemists held at Gurukula Kangri University, Hardwar from November 15-18, 2000.
- 16. P.Nagendra, K.N.Mohana, H. S. Yathirajan & K.S.Rangappa**
“**The O-Na interaction in bromamine-T**”
37th Annual Convention of Chemists held at Gurukula Kangri University, Hardwar from November 15-18, 2000.
- 17. H. S. Yathirajan, P.Nagendra & K.S.Rangappa**
“**Comparison Study of quantum yields, bond lengths and bond angles in aromatic sulphonyl haloamines**”
International Conference on Chemistry and Annual Convention of Chemists held at Calcutta from December 11-16, 1999.
- 18. P. Nagendra, H. S. Yathirajan & K. S. Rangappa**
“**Determination of molecular weight of amino acids, isoniazid and pyridoxine hydrochloride with bromamine-T**”
International Conference on Chemistry and Annual Convention of Chemists held at Calcutta from December 11-16, 1999.
- 19. P. Nagendra , H. S. Yathirajan , K.S.Rangappa , M.A. Sridhar & J. S. Prasad**
“**Structure factors in N,N-dibromo-4-methylbenzenesulphonamide**”
National Conference on recent trends in Structure functions, analysis of molecules and applications held at University of Mysore, from October 28-30, 1999
- 20. A. B. Mamathadevi, H. S. Yathirajan & K. S. Rangappa**
“**Does the reaction of Chloramine-B with Cr(III), Al(III) and Fe(III) solutions lead to dichloroamine-B?**”
The third National Symposium on correlation analysis in Chemistry held at University of Mysore, from September 21-22, 1998.
- 21. K.N. Mohana & H. S. Yathirajan**
“**Kinetics and mechanism of the oxidation of cyclopentanone and cyclohexanone by bromamine-B in perchloric acid medium**”
Annual Convention of Chemists, held at Combatore from December 26-29, 1996.
- 22. K.N. Mohana, H. S. Yathirajan, A. S. Anandamurthy, K. M. Lokanatharai**
“**Thermal and photolytic decomposition of aqueous bromamine-B**”
Annual Convention of Chemists, held at Combatore from December 26-29, 1996.
- 23. H. S. Yathirajan, K. N. Mohana, M. S. Madhava and R. Somashekhar**
“**X-ray Debye Temperatures in a series of organic haloamines**” (P-096)
212th American Chemical Society National Meeting held at Orlando, Florida, USA from August 25-29, 1996.

24. **K.C. Sreenivasamurthy**, P. Nagaraja and H. S. Yathirajan
“Spectrophotometric determination of isoniazid with sodium 1,2-naphthoquinonesulphonate and cetyltrimethyl ammonium bromide”
Annual Convention of Chemists, held at Jaipur, Dec 1995.
25. K. N. Mohana, **H. S. Yathirajan** & Rangaswamy
“Conductometric study on the interaction of bromamine-B with Ag (I), Hg(II), Th(IV) and Zr(IV) solutions”
Annual Convention of Chemists, held at Jaipur, Dec 1995.
26. Aparna R. Nadig, **H. S. Yathirajan** & Rangaswamy
“Mechanism of the chlorination of acetophenone and its substituents by chloramine-B in HClO₄ medium: A kinetic study”
Annual Convention of Chemists, held at Indore, Dec 1989.
27. Aparna R. Nadig, **H. S. Yathirajan** & Rangaswamy
“Mechanism of the chlorination of acetophenone and its substituents by chloramine-B in HCl medium: A kinetic study”
Annual Convention of Chemists, held at Indore, Dec 1989.
28. **Aparna R. Nadig**, H. S. Yathirajan & Rangaswamy
“Kinetics & Mechanism of the chlorination of ketones by chloramine-B in HCl & HClO₄ media
Annual Convention of Chemists, held at Calcutta, Dec 1988.
29. Aparna R. Nadig, H. S. Yathirajan & **Rangaswamy**
“Kinetics & Mechanism of the chlorination of anisole by chloramine-B in HCl & HClO₄ media
Annual Convention of Chemists, held at Calcutta, Dec 1988.
30. Aparna R. Nadig, **H. S. Yathirajan** & Rangaswamy
“Kinetics & Mechanism of the oxidation of hydroxylamine hydrochloride by CAB in perchloric acid medium”
Annual Convention of Chemists, held at Kohlapur, Dec 1987.
31. B. N. Usha, **H. S. Yathirajan** & Rangaswamy
“Interaction of haloamines with Cr(III), Al(III) and Fe(III) solutions”
Annual Convention of Chemists, held at Calcutta, Dec 1984.
32. B. N. Usha, **H. S. Yathirajan** & Rangaswamy
“Oxidation of glutamic acid and its rare earth complexes with bromamine-B”
Annual Convention of Chemists, held at Cuttack, Dec 1983.
33. B. N. Usha, **H. S. Yathirajan** & Rangaswamy
“Kinetics & Mechanism of the chlorination of 2-methylphenol by chloramines-B in hydrochloric acid medium”
National Symposium on Kinetics & mechanism of reactions in solution, held at UOM, 1983.
34. **Rangaswamy**, H. S. Yathirajan & A. N. Nayak
“Rapid spectrophotometric determination of phenothiazine tranquilisers with EBBR”.
9th International Symposium on microchemical techniques, held at Amsterdam, 1983.

- 35. B. N. Usha, H. S. Yathirajan & Rangaswamy**
 “Kinetics & Mechanism of the chlorination of aniline by CAB in hydrochloric acid medium”
 Indian Council of Chemists, held at Srinagar, Dec 1982.
- 36. B. N. Usha, H. S. Yathirajan & Rangaswamy**
 “Conductometric study on the interaction of chloramine-B with Ag(I) and Hg(II) solutions”
 Annual Convention of Chemists, held at Madras, Dec 1981.
- 37. H. S. Yathirajan, Rangaswamy & D. S. Mahadevappa**
 “Kinetics & Mechanism of the oxidation of allyl and crotyl alcohols by CAB in hydrochloric acid medium”
 Annual Convention of Chemists, held at Madras, Dec 1981.
- 38. H. S. Yathirajan, Rangaswamy & D. S. Mahadevappa**
 “Kinetics & Mechanism of the oxidation of cinnamyl alcohol by CAB in hydrochloric acid medium”
 Annual Convention of Chemists, held at Kurukshetra, Dec 1979.
- 39. H. S. Yathirajan, Rangaswamy & D. S. Mahadevappa**
 “Some analytical applications of chloramine-B”.
 Annual Convention of Chemists, held at Waltair, Dec 1978..

RESEARCH PUBLICATIONS OF PROF. H. S. YATHIRAJAN

- 403. Jerry P. Jasinski, Ray J. Butcher, Q. N. M. Hakim Al-arique, B. Narayana and H.S. Yathirajan** (2010).
 1-(1,3-benzodioxol-5-yl) ethanone.
Acta Cryst., **E66(2)**, o383.
- 402. H. K. Fun, J. H. Goh, C. S. Chidan Kumar, H.S. Yathirajan and B. Narayana** (2010).
 4-Amino-N-(6-chloro-5-methoxy-pyrimidin-4-yl)-benzenesulfonamide
Acta Cryst. **E66(2)**, o372-o373.
- 401. Jerry P. Jasinski, Ray J. Butcher, Q. N. M. Hakim Al-arique, B. Narayana and H.S. Yathirajan** (2010).
 Trimipramine maleate
Acta E., **E66(2)**, o366-o367.
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