

Professor Hemmige S. Yathirajan
Chairman, DOS in Chemistry, University of
Mysore
Manasagangotri, Mysore-570 006, India

http://scholar.google.com/citations?hl=en&view_op=list_works&email_for_op=yathirajan%40hotmail.com&invitation_id=16942976874058866310&user=vfPfPqwAAAAJ



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. --Physics-Chemistry-Mathematics– I class –Govt. College, Tumkur (UOM-1974)
M.Sc. –Chemistry (Physical chemistry-Chemical kinetics) – I class – DOS in Chemistry, Manasagangotri, Mysore - (UOM- 1976)
Ph. D. – “Some oxidimetric investigations with organic chloramines”- DOS in Chemistry, Manasagangore, Mysore - (UOM-1981)
Post-doctoral Research Associate (NSF) (Department of Chemistry, Washington Univ., St. Louis, MO, USA - 1990-93)
F R S C (U K) - 2010

DESIGNATION

: Professor of Chemistry (CAS) -- August 2000
Reader in Chemistry (CAS) -- 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, SOUTH AFRICA, TURKEY, UK & USA)

RESEARCH PUBLICATIONS:

580 (as on July 2012- since 1979)

Citation indices

<u>Citations</u>	1600
<u>h-index</u>	15
<u>i10-index</u>	41

Papers presented at conferences/symposia: 47 (as on February 2011- since 1979)

Ph.D. students Guided successfully : **12**

Ph. D. students working: **06**

M.Phil. Guided : **02**

M. Phil. Guiding : **01**

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. Q. N. M. Hakim Al-arique -- Awarded Ph. D. in Jan 2011
“SYNTHESIS AND CRYSTAL STRUCTURE STUDIES OF SOME ORGANIC COMPOUNDS OF PHARMACEUTICAL IMPORTANCE”
- 9. M. T. Swamy -- Awarded Ph. D. in Jan 2011
“CRYSTAL STRUCTURE STUDIES OF SOME CHALCONES, SCHIFF BASES AND COMPOUNDS OF PHARMACEUTICAL AND INDUSTRIAL IMPORTANCE”
- 10. C. S. Chidan Kumar -- Awarded Ph. D. in Dec 2011
“CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME CHALCONES, SCHIFF BASES, PHARMACEUTICAL INTERMEDIATES AND RELATED COMPOUNDS”
- 11. A. N. Mayekar -- Awarded Ph. D. in Feb 2012
“SYNTHESIS AND CHARACTERIZATION OF SOME NEW BIOACTIVE HETEROCYCLIC AND RELATED COMPOUNDS”
- 12. M. S. Siddegowda -- Submitted the thesis in July 2012
“CRYSTAL & MOLECULAR STRUCTURE STUDIES OF SOME PHARMACEUTICAL COMPOUNDS, PHARMACEUTICAL INTERMEDIATES & ORGANIC PICRATES”
- 13. A. S. Praveen -- Registered for Ph. D. from Nov 2009
“SYNTHESIS OF SOME NEW ORGANIC MOLECULES OF BIOLOGICAL INTEREST AND THEIR STRUCTURAL STUDIES”
- 14. B. P. Siddaraju -- Registered for Ph. D. from Oct 2010
“CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF 4-(4-CHLOROPHENYL)PIPERIDIN-4-OL AND ITS SALTS, PICRATES OF BIO-ACTIVE COMPOUNDS, CHALCONES AND ALLIED COMPOUNDS”
- 15. A. S. Dayananda -- Registered for Ph. D. from Dec 2010
“CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME NITROGEN CONTAINING HETEROCYCLIC COMPOUNDS”
- 16. C. N. Kavitha -- Registered for Ph. D. from Mar 2012
“CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME PIPERAZINE DERIVATIVES”
- 17. T. S. Yamuna -- Registered for Ph. D. from Mar 2012
“CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME HETEROCYCLIC DERIVATIVES”
- 18. Manpreet Kaur -- Registered for Ph. D. from Mar 2012
“CRYSTAL AND MOLECULAR STRUCTURE STUDIES OF SOME DERIVATIVES OF ORGANIC COMPOUNDS OF PHARMACEUTICAL IMPORTANCE”

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'*-(*(2Z)*-butan-2-ylidene)-5-methoxy benzohydrazide”
- 3. H. P. Sumathi -- Joined M. Phil. in 2011
“Crystal and Molecular structure studies of methyl 2,2-diphenyl-2-(prop-2-yn-1-yloxy)acetate and ethyl *N*-(2-benzoyl-4-chlorophenyl)ethanecarboximidate”

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.

MEMBER – AMERICAN CHEMICAL SOCIETY (1992)

FELLOW – ROYAL SOCIETY OF CHEMISTRY (2010)

CITATIONS More than **1600** citations

ACHIEVEMENTS (i) Two research articles appeared as cover pages in Acta

RECOGNITION :	<p>Crystallographica E, 2005 (UK) and one in Acta Crystallographica C, 2006 (UK).</p> <p>(ii) One research article appeared in IUCr news letter, vol.13(1), 2005</p> <p>(iii) Two research articles appeared in Monographs/Periodicals in Organic Reaction Mechanisms, John Wiley & Sons – 1998; Photochemistry, Vol. 33, Royal Society of Chemistry – 2002</p> <p>(iv) Two Research articles indexed in NATIONAL DATA RADIATION CENTRE, USA</p> <p>(i) Biography appeared in Marquis “Who’s Who in the World-1998”</p> <p>(ii) Member – American Chemical Society (since 1992 till today)</p> <p>(iii) Affiliate Member – IUPAC (since 1992 till today)</p> <p>(iv) Fellow – Indian Chemical Society (since 1994 till today)</p> <p>(v) Fellow of the Royal Society of Chemistry (FRSC) (Since 2010)</p> <p>(vi) Editorial Board of referees – ARKIVOC (2010)</p>
OTHERS	<p><i>Evaluated the Ph. D. thesis of many Indian Universities.</i></p> <p><i>Chaired a Session at the ‘41st Annual Convention of Chemists’ held at University of Delhi, Delhi, from Dec 23-27, 2004.</i></p> <p><i>Collaborative research with Scientists from India, UK, USA, Germany, China, Poland, Italy, Malaysia, Turkey and Sweden.</i></p> <p><i>Member of BOA for Karnatak & Kuvempu Universities.</i></p> <p><i>Worked as in-charge Chairman of the department on several occasions.</i></p> <p><i>Involved in framing the syllabus for M. Sc. Chemistry on several occasions.</i></p> <p>Participated & co-ordinated many symposia held in the DOS in Chemistry since 1976.</p> <p>Participated in several refresher courses in UOM, IISc and Waltair.</p> <p>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.</p> <p>Delivered lectures for refresher courses conducted by Academic Staff College, Univ. of Mysore, Mysore.</p> <p>Worked as Chairman, BOE in Chemistry, Univ. of Mysore, Mysore, during 2007-08.</p> <p>Worked as Member, BOS in Chemistry, Univ. of Mysore, Mysore, during 2001-04.</p> <p>Worked as Member -- BOE in Chemistry for Bangalore, Mangalore, Kuvempu, Karnatak and Gulbarga Universities.</p> <p>Worked as Member, BOS in Chemistry, Kuvempu Univ, Shankaraghatta, during 2005-08.</p> <p>Worked as a staff secretary for Chemical Society, DOS in Chemistry, Manasagangotri, Mysore on many occasions since 1976.</p> <p>Involved in stock verification of the department during several years.</p> <p>Worked as executive committee member of MUPGDTA as well as MUTA.</p> <p>Referee for International Journal of Chemical Kinetics, Journal of Solutional Chemistry.</p>

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.

Read the most downloaded articles for free from Journal of Chemical Crystallography (USA)—2012

March 14, 2012

- 2615** [5-\(4-Ammonio-2-Oxopyrimidine-1\(2H\)-yl\)-1,3-Oxathiolane-2-Carboxylate \(lamivudine acid\) Semihydrate: The Six-Fold Symmetry Created by Hydrogen Bond Network](#)
 Dutkiewicz, Grzegorz; Chidan Kumar, C. S.; **Yathirajan, H. S.**; Narayana, B.; Kubicki, Maciej
- 1956** [Synthesis and Crystal Structures of Two New Schiff Base Hydrazones Derived from Biphenyl-4-Carbohydrazide](#)
 Dutkiewicz, Grzegorz; Narayana, B.; Samshuddin, S.; **Yathirajan, H. S.**; Kubicki, Maciej
- 659** [Ordering of the Water Molecule in the Crystal Structure of 2-\[3-Methyl-4-\(2,2,2-Trifluoroethoxy\)-2-Pyridinyl\]Methylthio-1H-Benzimidazole Hydrate \(Lansoprazole Sulphide Hydrate\)](#)

Kubicki, Maciej; Dutkiewicz, Grzegorz; Jasinski, Jerry P.; Butcher, Ray J.; Siddegowda, M. S.; **Yathirajan, H. S.**; Narayana, B.

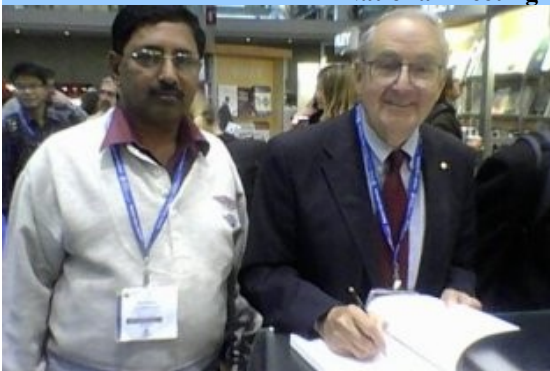
Two Crystal Forms of 4-{(2E)-2-[1-(4-Methoxyphenyl)ethylidene]hydrazinyl}-8-(trifluoromethyl)quinoline

518

Kubicki, Maciej; Dutkiewicz, Grzegorz; Praveen, A. S.; Mayekar, Anil N.; Narayana, B.; **Yathirajan, H. S.**

AROUND THE WORLD.....

Prof. H. S. Yathirajan (DOS in Chemistry-Univ. of Mysore) and Prof. E. J. Corey (Nobel laureate in Chemistry-1990). Photo taken at the Boston Convention and Exhibition Center on 25th august 2010 at the 240th American Chemical Society National meeting (21-26th aug 2010). Prof. Corey signing the book "Molecules and medicine" written by himself. More than 14,000 researchers attended the ACS National Meeting from all over the world.



Prof. Hemmige S. Yathirajan and
Prof. E. J. Corey (Nobel laureate-1990)



Prof. H. K. Fun – Prof. Ray Butcher – Prof. H. S.
Yathirajan (Picture taken on 14-12-2011 at the DOS in Chemistry, UOM, Mysore)

REFERENCES

1. Prof. V. G. Talawar
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2. Prof. K. S. Naik
Registrar (Employer)
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Mysore-570 005, India
Tel. Ph.: 91-821-2419361
registrar@uni-mysore.ac.in
3. Prof. P. Nagaraja (Research collaborator)
DOS in Chemistry
University of Mysore
Manasagangotri
Mysore-570 006, India
4. Prof. B. Narayana (Research Collaborator)
DOS in Chemistry
Mangalore University
Mangalagangothri-574 199
India

- Tel. Ph.: 91-821-2419653
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5. **Prof. K. M. Lokanath Rai**
kmlrai@yahoo.com
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Manasagangotri
- Mysore-570 006, India
Tel. Ph.: 91-821-2419658
7. **Dr. Jerry P. Jasinski** (jjasinsk@keene.edu)
Professor of Chemistry
Department of Chemistry
Keene State College
229 Main Street
Keene, NH 03435-2001, USA
Tel. Ph.: 603 358-2563
- nbadiadka@yahoo.co.uk
6. **Dr. Ray J. Butcher** rbutcher@fac.howard.edu
Professor of Chemistry
Department of Chemistry
Howard University
2400 Sixth Street, NW, Washington, DC 20059, USA
- Tel. Ph.: 202-806-6886
8. **Prof. W. T. A. Harrison**
Department of Chemistry
University of Aberdeen
Meston Walk
Aberdeen AB24 3UE
Scotland
UK (w.harrison@abdn.ac.uk)

* * * * *

RESEARCH PUBLICATIONS



http://scholar.google.com/citations?hl=en&view_op=list_works&email_for_op=yathirajan%40hotmail.com&invitation_id=16942976874058866310&user=vfPfpqAAAAJ

582. Manpreet Kaur^a, Jerry P. Jasinski, Ray J. Butcher, H. S. Yathirajan, Anil N. Mayekar and B. Narayana (2012).
Crystal and molecular structure studies of ethyl 4-(4-hydroxyphenyl)-6-(6-methoxy-2-naphthyl)-2-oxocyclohex-3-ene-1-carboxylate and ethyl 4-(3-bromophenyl)-6-(6-methoxy-2-naphthyl)-2-oxocyclohex-3-ene-1-carboxylate.
CRYSTALS ----communicated
581. Jerry P. Jasinski^a, James A. Golen^a, Seranthimata Samshuddin^b, Badiadka Narayana^b and Hemmige S.Yathirajan^c (2012).
Synthesis, Characterization and Crystal Structures of 3,5-bis(4-fluorophenyl)-4,5-dihydro-1*H*-pyrazole-1-carboxamide and 3,5-bis(4-fluorophenyl)-4,5-dihydro-1*H*-pyrazole-1-carbothioamide.
CRYSTALS ----communicated
580. Jerry P. Jasinski, Curtis J. Guild, Albert E. Pek, Seranthimata Samshuddin, Badiadka Narayana and Hemmige S.Yathirajan (2011).
Synthesis and Crystal Structures of Four New Dihydropyridine Derivatives
JOURNAL OF MOLECULAR STRUCTURE— IN PRESS
579. G. Dutkiewicz, M. Kubicki, A. S. Dayananda, H.S.Yathirajan and A. R. Ramesha
Ordering of the methyl group in the crystal structure of 5-(2-chlorophenyl)-7-ethyl-1*H*-thieno[2,3-*c*][1,4]diazepin-2(3*H*)-one
CRYSTALS --(Manuscript ID: crystals-18698) (Switzerland)(communicated)(revised)
578. A. S. Dayananda, Grzegorz Dutkiewicz, H. S. Yathirajan, B. Narayana and Maciej Kubicki (2012).
Very short intramolecular hydrogen bonds in the crystal structure of 1-[bis(4-fluorophenyl)methyl]piperazinediium dimaleate

577. Maciej Kubicki , Grzegorz Dutkiewicz, H. Yathirajan, Pankaj Dawar, A. Ramesha, A. Dayananda (2012).
The Crystal and Molecular Structures of two 2-aminothiophene derivatives (2-amino-5-ethylthiophen-3-yl)(2-chlorophenyl)methanone and 2-amino-4,5,6,7-tetrahydrobenzo[b]thiophen-3-yl(phenyl)methanone
CRYSTALS (15820) (Switzerland) (communicated)
 576. A. S. Dayananda, H. S. Yathirajan, A. C. Keeley & J. P. Jasinski (2012).
1-{4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl}ethan-1-one
Acta Cryst. E **68(7)**, o2237.
 575. S. Samshuddin, Badiadka Narayana, Hemmige S. Yathirajan, Thomas Gerber, Eric Hosten and Richard Betz
(2E)-3-(2-Chlorophenyl)-1-(4,4"-difluoro-5'-methoxy-1,1':3,1"-terphenyl-4'-yl)prop-2-en-1-one
Acta Cryst. E **68 (5)**, o1538-o1539.
 574. A. S. Praveen, H. S. Yathirajan, B. Narayana T. Gerber, E. Hosten and R. Betz (2012).
4-[(1E)-3-(2,6-Dichloro-3-fluorophenyl)-3-oxoprop-1-en-1-yl]benzonitrile
Acta Cryst. E **68 (5)**, o1413.
 573. Grzegorz Dutkiewicz, Divya N. Shetty, B. Narayana, H. S. Yathirajan and Maciej Kubicki (2012)
4-{{[4-Benzyloxyphenyl)methylidene]amino}-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one
Acta Cryst. E **68 (5)**, o1324.
-
572. A. S. Dayananda, **H. S. Yathirajan** and Ulrich Florke
4-[Bis(4-fluorophenyl)methyl]piperazin-1-ium 2-hydroxybenzoate 2-hydroxybenzoic acid monosolvate.
Acta Cryst. E **68(4)**, o1180.
 571. A. S. Dayananda, H. S. Yathirajan, T. Gerber, E. Hosten and R. Betz (2012).
Cinnarizinium 3,5-dinitrosalicylate
Acta Cryst. E **68 (4)**, o1165-o1166.
 570. A. S. Praveen, Jerry P. Jasinski, J. A. Golen, **H. S. Yathirajan** and B. Narayana (2012).
(2E)-1-(2,6-Dichloro-3-fluorophenyl)-3-(4-methoxyphenyl)prop-2-en-1-one
Acta Cryst. E **68 (4)**, o1163.
 569. A. S. Praveen, H. S. Yathirajan, B. Narayana, T. Gerber, E. Hosten and R. Betz, (2012).
(2E)-1-(2,6-Dichloro-3-fluorophenyl)-3-phenylprop-2-en-1-one
Acta Cryst. E **68 (4)**, o1085.
 568. **A. S. Dayananda**, G. Dutkiewicz, H.S.Yathirajan and M. Kubicki, (2012).
Doxylaminium tartarate
Acta Cryst. E **68 (4)**, o1054-o1055.
 567. B. Golzarroshan, M. S. Siddegowda, Hongqi Li, H. S. Yathirajan, B. Narayana and R. S. Rathore (2012).
Imatinib (Gleevec®) conformations observed in single crystals, protein-Imatinib co-crystals and molecular dynamics: Implications for drug selectivity
J. Mol. Struct. (Netherlands), **1018**, 107-112.
 566. A. S. Dayananda, R. J. Butcher, M. Akkurt, H. S. Yathirajan, & Narayana, B. (2012).
Triprolidinium dichloranilate chloranilic acid monohydrate methanol solvate (2/1/2/2)
Acta Cryst. E **68 (4)**, o1037-o1038.
 565. A. S. Dayananda, **H. S. Yathirajan** and Ulrich Florke
4-[Bis(4-fluorophenyl)methyl]piperazin-1-ium bis(trichloroacetate) 0.4 hydrate
Acta Cryst. E **68 (3)**, o968 .

564. **H. P. Sumathi, A. S. Dayananda, Grzegorz Dutkiewicz, H. S. Yathirajan** and Maciej Kubicki
Ethyl *N*-(2-benzoyl-4-chlorophenyl)ethanecarboximidate
Acta Cryst. E68 (3), o916.
563. **H. P. Sumathi, Ulrich Florke, H. S. Yathirajan** and A. S. Dayananda and A. R. Ramesha (2012).
Methyl diphenyl(prop-2-yn-1-yloxy)acetate
Acta Cryst. E68 (3), o874.
562. Hoong-Kun Fun, Suchada Chantrapromma, A. S. Dayananda, **H. S. Yathirajan** and Saji Thomas
4-(3,5-Bis(2-hydroxyphenyl)-1*H*-1,2,4-triazol-1-yl)benzoic acid dimethylformamide solvate
Acta Cryst. E68 (3), o792-o793.
561. **A. S. Dayananda, H. S. Yathirajan, W. T. A. Harrison** and A. M. Z. Slawin, (2012).
(1*E*)-1-(2,5-Dichloro-3-thienyl)ethanone [8-(trifluoromethyl)quinolin-4-yl]hydrazone
Acta Cryst. E68 (3), o790.
560. Jerry P. Jasinski, James A. Golen, **S. Samshuddin, B. Narayana** and H.S.Yathirajan (2012).
(6*Z*)-3,5-Bis(4-fluorophenyl)-6-(1-hydroxyethylidene)cyclohex-2-en-1-one
Acta Cryst. E68 (3), o638-o639.
559. B. P. Siddaraju, G. Dutkiewicz, H.S.Yathirajan and M. Kubicki (2012).
Tramadolum picrate
Acta Cryst. E68 (3), o600.
558. Jerry P. Jasinski, James A. Golen, S. Samshuddin, B. Narayana and H.S.Yathirajan (2012).
Ethyl 2-amino-4,6-bis(4-fluorophenyl)cyclohexa-1,3-diene-1-carboxylate
Acta Cryst. E68 (3), o585.
557. Hoong-Kun Fun, Suchada Chantrapromma, A. S. Dayananda, **H. S. Yathirajan** and A. R. Ramesha (2012).
2-Amino-*N*-[3-(2-chlorobenzoyl)-5-ethyl-2-thienyl]acetamide
Acta Cryst. E68 (2), o547-o548.
556. J. P. Jasinski, C. J. Guild, **A. S. Dayananda, H. S. Yathirajan** and A. R. Ramesha (2012).
Redetermination of loperamide hydrate at 170 K
Acta Cryst. E68 (2), o539-o540.
555. **A. S. Praveen, H. S. Yathirajan**, W. T. A. Harrison and A. M. Z. Slawin, (2012).
1-[Amino(4-chlorophenyl)methyl]-6-bromo-2-naphthol
Acta Cryst. E68 (2), o535.
554. R. Betz, T. Gerber, E. Hosten, A. S. Dayananda, **H. S. Yathirajan** & A. R. Ramesha (2012).
(*E*)-5-(2-Chlorophenyl)-7-ethyl-1*H*-thieno[2,3-*c*] [1,4]diazepin-2(3*H*)-onium picrate
Acta Cryst. E68 (2), o516-o517.
553. R. Betz, T. Gerber, E. Hosten, A. S. Praveen, **H. S. Yathirajan** & B. Narayana (2012).
(2*E*)-1-(2,6-Dichloro-3-fluorophenyl)-3-(4-fluorophenyl)prop-2-en-1-one
Acta Cryst. E68 (3), o512.
552. M. Kubicki, G. Dutkiewicz, A. S. Praveen, Anil N. Mayekar, B. Narayana and **H. S. Yathirajan** (2012).
"Two crystal forms of 4-{(2*E*)-2-[1-(4-methoxyphenyl)ethylidene] hydrazinyl}-8-(trifluoromethyl)quinoline"
J. Chem. Cryst. (USA) DOI 10.1007/s10870-011-0264-7—published on-line-14th Jan 2012: 42 (5), 432-437.
551. M. Kubicki, G. Dutkiewicz, **M. S. Siddegowda**, Jerry P. Jasinski, Ray J. Butcher, **H.S. Yathirajan** and B. Narayana (2012).

- "Ordering of water molecule in the crystal structure of 2-[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methylthio-1H-benzimidazole hydrate (lansoprazole sulphide hydrate) " *J Chem Cryst*- (USA)-DOI 10.1007/s10870-011-0232-2—published on-line-30th Nov 2011: 42 (3), 245–250.
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Some Papers presented at Conferences / Symposia / Meetings

1. **Mishra R**, Siddiqui AA, Husain A, Rashid M, Dutta M, Bhutani R, Yathirajan HS and Tailang M.
One-Pot Synthesis of Substituted Carbohydrazides as Potential Tuberculostics
“AICTE SPONSORED NATIONAL SEMINAR ON NEW HORIZONS IN DRUG DISCOVERY AND DEVELOPMENT” held at Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Jamia Hamdard, Hamdard Nagar, New Delhi-110062, from

17TH -18TH SEP, 2011 (PROCEEDING -17).

2. S. Samshuddin, B. Narayana, B.K. Sarojini, H.S.Yathirajan, C.G. Darshanraj, R. Raghavendra

Synthesis, Characterization and Biological Evaluation of Some 1, 3, 5-Triaryl-2-pyrazolines
International Symposium on Challenges in Drug Discovery Programme-2011 (ISCDDP-2011) held in the Cauvery Auditorium, Karnataka State Open University, Manasagangotri, Mysore-570006 during February 16-17, 2011.

3. Jerry P. Jasinski, Ray J. Butcher, A. N. Mayekar, **H. S. Yathirajan** and B. Narayana
MED-432-Crystal Structures and Hydrogen Bonding Patterns in some Schiff Bases of Pharmacological importance - 240th American Chemical Society (ACS) National Meeting, Boston, USA, August 22-26, 2010.-(Division of Medicinal Chemistry) - August 25, 2010, 7:00 pm -Boston Convention & Exposition Center, Room: Ballroom

4. Jerry P. Jasinski, Ray J. Butcher, Q.N.M. Hakim Al-arique, **H. S. Yathirajan**, and B. Narayana
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6. M. T. Swamy, C. S. Chidan Kumar, B. P. Siddaraju, **H. S. Yathirajan** and B. Narayana

OP 01-Crystal and molecular structure studies of an etoposide phosphate intermediate. "National Conference on Recent Trends In Chemical and Biological Sciences (NCRTCBS-2010)" held on 30th and 31st March, 2010 organized by Dept. of Chemistry, Kuvempu University, Jnana Sahyadri, Shankaraghatta 577 451.

7. Q. N. M. Hakim AL-arique, M. S. Siddegowda, A. N. Mayekar, A. S. Praveen, H.S.Yathirajan and B. Narayana

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8. C. S. Chidan Kumar, A. N. Mayekar and H. S. Yathirajan

PP32- Synthesis and Crystal Structure Studies of Phthalazine derivative
National Conference on MATERIALS:NANO TO MACRO DIMENSIONALITY AND THEIR VARIED APPLICATIONS – organized by Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli – 627 012, TN, held on Jan 28-29, 2010.

9. 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.

10. 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

11. 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.

12. 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
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(Bioinorganic Chemistry: Enzymes and Coenzymes - Division of Inorganic Chemistry)

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13. 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.

14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

19. 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.

20. M.N. Ponnuswamy, R.A. Thirumuraghan, P. Ambalavanan & H. S. Yathirajan
“Crystal and molecular Structure of 2-chloro-3-(β -nitrovinyl)quinoline”

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21. 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.

22. 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

23. 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.

24. P.Nagendra, K.N.Mohana, H. S. Yathirajan & K.S.Rangappa
“The O-Na interaction in bromamine-T”

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25. 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.

26. 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.

27. 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

28. 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.

29. **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.

30. **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.

31. **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.

32. **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.

33. **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.

34. **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.

35. **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.

36. **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.

37. **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.

38. **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.

39. **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.

40. **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.

41. 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.

42. 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.

43. 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.

44. 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.

45. 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.

46. 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.

47. H. S. Yathirajan, Rangaswamy & D. S. Mahadevappa

“Some analytical applications of chloramine-B”.

Annual Convention of Chemists, held at Waltair, Dec 1978.