PROFESSOR K. BYRAPPA

Vice Chancellor, Mangalore University Mangalagangotri-574 199,
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Home Address

"Vidwat" # 19, C- Block, 80 Feet Road, Vijayanagara 3rd Stage,
Mysore 570 017, Karnataka, India

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Education

- **Bachelor of Science** (B.Sc.) : Yuvaraja's College, University of Mysore, 1973, **81%Distinction, Gold Medalist**
- **Master of Science** (M.Sc.) : University of Mysore, 1973 to 1975, **First Rank** **82% Distinction**, **Gold Medalist**
- **Research Fellow,** University of Mysore, from August 1975 to November 1977.
- **Research Fellow**, Moscow State University, Moscow, from Dec. 1977 to Dec.1981 **(Moscow State University was one of the top TEN Universities in the world during 1970s to early 1980s)**
- **Research Associate**, Moscow State University, Moscow, Russia, from 1978-1981
- **Ph.D.**, Moscow State University, Moscow, Russia **(in Materials Science),** 1981
- **Post-Doctoral Fellow,** Moscow State University, Moscow, Russia from 1981-82
- **Diploma in Russian Language,** Moscow State University, Russia from 1978 to 1980
- **Certificate in German Language,** Mysore University, India, 1976
- **Certificate in Japanese Language,** Shimin Center, Sendai, Japan, 2006-2007.
- **Passed the Junior Level Examination of the Board of Commerce Institutes**
- Working and spoken knowledge in **Spanish and Japanese Languages**. Very fluent in **Russian Language**).
- Excellent working knowledge in the use of various softwares and computer hardwares for Scientific Research Applications.

Field of Specialization

- **Nanotechnology and Nanomaterials**, Materials Science, Bioceramics, Ceramic Coatings, Solid Electrolytes, Photonic Materials, Metal Oxides, Environmental Science and Engineering, Water Technology and Water Treatment, Carbon, Photo catalysts, Zeolites, Thermodynamic Modeling,**Crystallography, Crystal Growth, Experimental Mineralogy**.
- **Known worldwide in Hydrothermal, Solvothermal and Supercritical Fluid Technology**.
- Physics and Chemistry of Phosphates, Silicates, Vanadates, Tungstates, Zeolites, etc.

Characterization of Natural and Synthetic Materials by Various Techniques like XRD, DTA/DSC/TGA, IR- Spectroscopy, Electron Microscopy – Scanning Electron Microscopy, Field Emission Microscopy, Impedance Spectroscopy, and Properties related to the surface chemistry of Materials, etc.

- Took up Special Courses in Electron Microscopy, X-ray Spectroscopy and Image Processing, during 2000 – 2001 (Two Full Term Semester Course) at Rutgers University, New Jersey, USA.

Principal Investigator

- Several Research Projects sponsored by Department of Science and Technology, New Delhi; Dept. Atomic Energy; University Grant Commission; Council of Scientific Industrial Research; Defence Research Development Organization; and

- Major Industries like General Electric, USA; Johnson & Johnson Co. USA; M.R. Jain Gem Company, India, etc.

- **Successfully Completed a Major Joint Research Project of US $ 1.2 Million as Co-Investigator on "Hydrothermal Carbon" with Prof. M. Yoshimura of Tokyo Institute of**

Technology, Japan, as Principal Investigator, funded by the Research Institute of Solvothermal Technology, Takamatsu, Japan. I have trained several colleagues and research students in Japan, under this program. The work involved studies on various forms of carbon like carbon nanotubes, fullerenes, diamond synthesis, and activated carbon. Also worked on International Co-operation Research Project with Tokyo Institute of Technology, Tokyo, Japan and Tokyo University of Science and Technology, Chiba, Japan. Currently operating Major Research Projects funded by the University Grants Commission, Dept. of Science and Technology, and Siemens, Germany.

Recognition in The University of Mysore

- **Present *h*-index of the University of Mysore is 62.**
- **My individual contribution to the *h*-index of the University of Mysore is about 24%.**
- **Out of TOP 62 papers contributing to the University's *h*-index, TOP papers are my publications with highest number of citations.**

Administrative Experience
University of Mysore

Founder Coordinator	**M.Tech., in Materials Science, Center for Materials Science and Technology, University of Mysore**
Chief Coordinator	**University with Potential for Excellence Rs.60 Crores Inter-Departmental Program, University of Mysore**
Coordinator	**Center with Potential for Excellence in a Particular Area Rs. 5 Crores Project, University of Mysore**
Founder Director	**Internal Quality Assurance Cell (IQAC), University of Mysore (Sept 2009 to Dec 2013)**
Former Chairman	**Dept. of Earth Science, University of Mysore (January 2009 to April 2011)**
Former Director	**UGC-Academic Staff College, Univ. of Mysore (January 2004 to September 2006)**

CITATIONS

TOTAL CITATIONS: 3800

- Most Cited papers (as per the Publishers Notifications based on Science Direct):

Top 25 Hottest Articles

No. 1 Spot in the past 5 years

K. Byrappa and T. Adschiri (**2007**) (**Impact Factor: 9.2**) (**Review Article, Elsevier)**
Hydrothermal Technology for Nanotechnology
Progress in Crystal Growth and Characterization of Materials, **UK, Vol. 53, pp. 117-166.**
[**Past 5 years**] **(> 290 citations)**

MOST DOWNLOADED PAPERS

K. Namratha and **K. Byrappa** (**2012**) **(Impact Factor: 9.2)** (**Review Article, Elsevier**)
Novel Solution Routes of Metal Oxide and Hybrid Metal Oxide Nanomaterials
Progress in Crystal Growth and Characterization of Materials, **UK, Vol. 58 [2], pp. 14-42**.

Most Cited Papers

1. **K. Byrappa**, S. Ohara and T. Adschiri **(2008)**
   Nanoparticles synthesis using supercritical fluid-towards biomedical applications **(Review)**
   Advanced Drug Delivery Reviews**, Vol. 60, pp. 299-327, Netherlands**.
   (Impact Factor: 14.9) (**Over 189 citations**)

2. M. Yoshimura and **K. Byrappa (2008)**
   Hydrothermal Technology Past, Present and Future **(Review)**
   J. Mater. Sci., **Vol. 43(7), pp. 2085-2103, USA.**
   (Impact Factor: 2.2) (**Over 210 citations**)

3. W.L. Suchenak, **K. Byrappa**, P. Shuk, R.E. Riman, K.S. TenHuisen and V.F. Janas **(2004)** Preparation of magnesium-substituted hydroxyapatite powders by the mechanochemical-hydrothermal method
Biomaterials, **Vol. 25(19), pp. 4647-4657, USA.**
(Impact Factor: 8.51) (Over 195 citations)

4. W.L. Suchanek, P. Shuk, **K. Byrappa**, R.E. Riman, K.S. Ten Huisen and V.F. Janas **(2002)** Mechanochemical-hydrothermal synthesis of carbonated apatite powders at room temperature
Biomaterials, **Vol. 23, pp. 699-710, USA.**
(Impact Factor: 8.51) (Over 270 citations)

Books Published

1. **'HYDROTHERMAL TECHNOLOGY FOR ADVANCED PROCESSING'**
Authors: **K. Byrappa *(India)* and T. Adschiri *(Japan)***
Under Preparation for publication from John Wiley & Sons, USA.

2. **'HANDBOOK OF HYDROTHERMAL TECHNOLOGY' (Second Edition)**
A Technology for Crystal Growth and Materials Processing
Authors: **K. Byrappa *(India) and M. Yoshimura (Japan)* (780 Pages)**
Publishers: Elsevier, London, UK (2012)

3. **'SPRINGER HANDBOOK OF CRYSTAL GROWTH'**
Eds. **G. Dhanaraj *(USA)*, K. Byrappa *(India)*, V. Prasad *(USA)* & M. Dudley *(USA)***
(1857 pages)
Publishers: Springer-Verlag, Germany (2010)
(This is the second biggest book ever published by Springer-Verlag, Germany)

4. **'CRYSTAL GROWTH TECHNOLOGY'**
Eds. **K. Byrappa *(India)* and T. Ohachi *(Japan)***
Publishers: Springer-Verlag, Germany and William Andrew, New York, USA (2003)

5. **'CRYSTAL GROWTH OF TECHNOLOGICALLY IMPORTANT ELECTRONIC MATERIALS'**
Eds. **K. Byrappa *(India)*, T. Ohachi *(Japan)*, H. Klapper *(Germany)* and R. Fornari *(Italy)***
Publishers: Allied Publishers Pvt. Ltd. New Delhi, India (2003)

6. **'HANDBOOK OF HYDROTHERMAL TECHNOLOGY' (First Edition)**
A Technology for Crystal Growth and Materials Processing
Authors: **K. Byrappa *(India)* and M. Yoshimura *(Japan)* (870 Pages)**
Publishers: Noyes, USA (2001)

7. **'CURRENT TRENDS IN CRYSTAL GROWTH AND CHARACTERIZATION'**
Editor: **K. Byrappa**
M.I.T. Publishers, (1991).

8. **'HYDROTHERMAL GROWTH OF CRYSTALS'**
Editor: **K. Byrappa *(India)***
Publishers: ElsevierPergamon Press, Oxford, UK (1990)

Book on Fine Arts

'KUVEMPU PUNARMANANA': Book on Fine Arts'

Chief Editors: A. Malagatti and K. Byrappa

Publishers: Mysore University Prasaranga, Mysore (2004)

Journals Special Editions

1. **CRYSTAL CHEMISTRY AND IT'S SIGNIFICANCE ON THE GROWTH OF TECHNOLOGICAL MATERIALS** *(One Full Issue of the Journal)*
Authors: K. Byrappa *(India)* and D.Yu. Pushcharovsky *(Russia)*
Publishers: Elsevier Pergamon Press, Oxford, UK (1992)

2. **A NOVEL METHOD OF ADVANCED MATERIALS PROCESSING**
Editors: K. Byrappa *(India)* and M. Yoshimura *(Japan)*
J. Materials Science, Springer, USA (Vol. 41(5), 2006)

3. **A NOVEL ROUTES OF SOLUTION PROCESSING OF ADVANCED MATERIALS**
Editors: K. Byrappa *(India)* and T. Adschiri *(Japan)*
J. Materials Science, Springer, USA (Vol. 43(2), 2008)

4. **SPECIAL EDITION OF MATERIALS RESEARCH INNOVATIONS,**
Maney Publications, UK (Volume 13, No.1, 2010),

5. **NOVEL ROUTES OF SOLUTION PROCESSING**
Editor: K. Byrappa
Special Edition of Progress in Crystal Growth and Characterization of Materials ***(Vol. 58, 2011)***

Professional Experience

Adjudicator

Ph.D. Degree Adjudication in different Universities in subjects - Physics, Chemistry, Materials Science and Earth Science

Recognitions

- **Recognized as Ph.D., guide in Mysore University for Physics, Chemistry, Microbiology, Biotechnology, Materials Science, Earth Science, and Environmental Science.**

- **Recognized as Ph.D., guide in Mangalore University for Physics, Chemistry, Microbiology, Materials Science.**

- **39 Years of Research Experience in the field of Materials Science, Solid State Science, Crystal Growth, Chemistry of Materials, Crystallography, Crystal Chemistry, Experimental Mineralogy, Environmental Science.**

- **32 Years of Teaching Experience - Teaching Post-Graduate Students of M.Tech. Materials Science; M.Sc., Earth Science; M.Sc., Applied Geology; and M.Sc., Environmental Science.**

- **Twenty Students** have successfully completed their **Ph.D. Degrees** under my Supervision. Currently ***SEVEN Ph.D. Students*** are working under my Supervision in the fields related to Materials Science and Biotechnology.

- **Established a Fine Hydrothermal and Crystal Growth Laboratory in the Department of Earth Science, University of Mysore, India. Many Distinguished Scientists from UK, Holland, Russia, Spain, USA, Japan, etc., have visited and worked in my laboratory.**

- Participated in several International and National Conferences, Seminars, Workshops and Schools, both within and outside India.

- **Presented papers, Chaired Sessions and also Delivered Invited and Special Lectures in the International and National Conferences held in different Countries**.

- **Member of the Organizing Committee, Program Committee, Advisory Committee of Several National and International Conferences/ Congresses**.

- **Visiting Professor Abroad**: Japan, USA, UK, Spain, Germany, Russia, China, Holland, etc.

- **Visiting Faculty,** Pondicherry University; Bharathidasan University; Bharathiar University; Bangalore University; Madurai Kamaraj University; Kerala Univ. etc.

Convenor

- **38th National Seminar on Crystallography, 11-13, Feb. 2009.**

- **4 Nos. of Orientation Programs for Post Graduate and Under Graduate Teaching Staff, on recent developments in Teaching Higher Education, during 2004-2006**

- **3 Nos. of UGC Sponsored Workshop for College Principals, on Higher Education System in India, during 2004 to 2006.**

- **Stress Management Workshop for Teaching Staff, July 2005.**
- **Soft Skill Development Workshop for Research Students of Mysore Univ.June 2005.**
- **DST – Workshop, January 27 - 30, 2005, Mysore.**
- **6th International Conference on Solvothermal Reactions (ICSTR-6), Mysore, India, August 24-28, 2004**
- **Indo-Japan Workshop on Solvothermal Reactions, August 23, 2004, Mysore, India**
- **International School on Crystal Growth of Technologically Important Electronic Materials (ISCGTIEM), January 20-28, 2003, Mysore, India. Sponsored by International Union of Crystallography, UK.**
- **Refresher Course in Crystallography and Mineralogy,"** for Teachers from Post-Graduate and Under-Graduate Institutions in India, March 7-31, 1994, Mysore, India.
- **International Seminar on Crystal Growth, August 14-16, 1989, Mysore, India.**

Chair, Symposia in International Conferences

1. Chair, Symposium on Joint IUMRS-ICMAT 2015, Suntec city, Singapore, June 18-23, 2017.
2. Chair, Symposium on Joint IUMRS-ICMAT 2015 & IMURS-ICA 2015, Suntec city, Singapore Jun. 28 to Jul. 03, 2015.
3. Chair, Symposium on Nanomaterials Synthesis : Solution Routes, IUMRS-ICA 2013, Dec. 16 to 20, 2013, Bangalore, India
4. Chair, Symposium on Industrial Crystallization, 17th International Conference on Crystal Growth (ICCG-17), Aug. 11 to 17, 2013, Warsaw, Poland.
5. Chair, Symposium on Novel Solution Processing of Materials for Nanotechnology / Biomaterials International Conference on Materials for Advanced Technology (ICMAT-2013), 29 Jun to 5 Jul 2013, Singapore.
6. Secretary, 3rd International Hydrothermal and Solvothermal Association Conference (ISHA-2013), Jan 13 to 17, 2013, Austin, USA.
7. Chair, Symposium on Nanotechnology for Bio/Medical Materials IUMRS-ICA-2011, 12th International Conference in Asia, Sept. 19 to 22, 2011, Taipei, Taiwan.
8. Chair, Symposium on the Growth of Scintillating, Ferroelectric, Piezoelectric and Muti-Functional Crystals, 16th International Conference on Crystal Growth, Aug. 08 to 12, 2011, Beijing, China.
9. Secretary, 2nd International Conference of the International Solvothermal and Hydrothermal Association, Jul. 26 to 28, 2011, Beijing, China.
10. Chair, Symposium on Novel Routes of Solution Processing, Jun. 28 to Jul. 03, 2009, Singapore.

11. Chair, Micro symposium on Hydrothermal Growth of Crystals, 21st Congress and General Assembly of International Union of Crystallography, Aug. 21 to 31, 2008, Osaka, Japan.
12. Chair, Symposium on Materials Synthesis, Novel Approaches, In: IUMRS-2007, Bangalore, India.
13. Chair, Symposium on Protein Crystallization, In: Asian Crystallography Conference, Nov. 2006, Tsukuba, Japan.
14. Scientific Program Committee Member, **IUCR** – XX and General Assembly, Aug. 2005, Florence, Italy.

Publications

- **10 Books and** Over **274 Research Papers** including **31** Major Reviews and Book Chapters in leading International Journals.
- Presented over **148** papers in National and over **115** in International Conferences/Seminars held in India and abroad respectively. Frequently delivered invited lectures in several international conferences held in various countries.

Distinctions and Fellowships

1. **Vijayavani National Education Leadership Award 2015.**
2. Elected FELLOW/ACADEMICIAN, World Academy of Ceramics, Italy/USA from 2009 onwards.
3. SENIOR ASSOCIATE EDITOR, Journal: Progress In Crystal Gorwth and Characterization Of Materials– a Review Journal from Elsevier Science Publishers, The Netherlands **(Impact Factor : 9.25)**
4. CO-EDITOR IN CHIEF, Journal: Materials Research Innovation, Publishers: Maney Publications, U.K. **(Impact Factor : 1.8)**
5. EDITORIAL BOARD MEMBER, Journal: Ceramics International, Elsevier Publications, Holland **(Impact Factor: 1.75)**
6. EDITORIAL BOARD MEMBER, Journal: The Open Access Crystallography Journal, Bentham Publications, USA.
7. EDITORIAL BOARD MEMBER, Journal of Minerals, Materials Characterization and Engineering, American Scientific Publishers, USA.
8. GUEST EDITOR, Journal of Materials Science, Springer, USA.
9. MEMBER, EDITORIAL BOARD Journal of The Indian Academy of Sciences
10. Expert, Dept. of Science and Technology, Govt. of India, National Program on Nano-materials for Ferro-Fluid Flow.
11. **DR. RAJA RAMANNA AWARD** for Science and Technology, 2011 (highest State Award for Science Education).
12. Recipient of **SIR C V RAMAN AWARD** in Physical Sciences, for the year 1998, India.
13. GOLD MEDALIST in Master of Science Degree, Mysore University, 1975.
14. GOLD MEDALIST in Bachelor of Science Degree, Mysore University, 1973.
15. 1st RANK (1st Place) in Master of Science Degree Examination, University of Mysore, 1975
16. Recipient of SUBJECT SCHOLARSHIP from 1973 to 1975.
17. **Medal, Materials Research Society of India**, 2004

18. **Indian Association of Crystal Growth Award 2014**, India
19. Consultant to the International Commission on Crystal Growth, a Body of the International Union of Crystallography, from 1999-2002.
20. **Member, INSA National Committee on Crystallography**, *from 2006* -
21. **Founder General Secretary**, International Solvothermal and Hydrothermal Association (ISHA), from 2006 -
22. Recipient of the Mysore University **GOLDEN JUBILEE AWARD** for 1987 and 1992 *for the* BEST RESEARCH WORK *in the University of Mysore.*
23. Served as UGC Expert for SAP Programs, and Member of NAAC Committee.
24. Recipient of the **ATTRACTIVE PAPER AWARD** in the IX International Conference on Crystal Growth, August 20-25, 1989, Sendai, Japan.
25. MEMBER, Scientific Program Committee, International Congress on Crystallography, Florence, Italy, August 2005.
26. Selected to **Elite Club of 2000 Outstanding Personalities of 20th Century**, in Science & Technology by International Biographic Centre, Cambridge, U.K.
27. MEMBER, British Association for Crystal Growth, UK.
28. **EXECUTIVE COMMITTEE MEMBER**, National Committee for Crystal Growth, India.
29. MEMBER, International Panel on the Experimental Techniques of the Growth of *4f* Elements Compounds, Lisbon, Portugal, 1987.
30. MEMBER, NEW YORK ACADEMY OF SCIENCES, USA.
31. MEMBER, International Advisory Board on Crystal Growth.
32. **Referee** for Journal of Crystal Growth, Elsevier / North-Holland Publishers,; Solid State Ionics, Elsevier Science Publishers; Chemistry of Materials; Journal of Materials Science, Kluwer Publications, Journal of Materials Research,Crystal Growth and Design, American Chemical Society Publications, USA. Materials Science and Engineering, etc.
33. Listed in Marques Who's Who in the World, USA; Marques Who's Who in Asia; Marques Who's Who in Science and Engineering, from 1997 onwards
34. Delivered SPECIAL LECTURES in National & International Schools and Seminars on Materials Science, Crystal Growth held in different countries in the world.
35. Published over 263 Research Papers including 30 major reviews in International Journals, Book chapters for overseas publishers and presented over 185 papers in National and International Conferences and Seminars.
36. Invited to several International Conferences and Seminars related to Crystal Growth and Hydrothermal Research, Presented Invited Papers and Chaired Sessions.
37. UGC expert for Committee on Orientation Programmes and Refresher courses in India, 2006
38. **Executive Council Member**, *National Crystallography*, Council of Indian National Science Academy, India. From 2007 -
39. Executive Council Member, International Commission on Crystal Growth and Characterization of Materials, International Union of Crystallography, UK. From 2002-
40. Executive Council Member, Asian Crystallography Association, From 2006 –
41. Member, Core Committee for Ph.D. Regulations of University of Mysore, Mysore

42. Member, Core Committee for VISION 2025, UNIVERSITY OF MYSORE.
43. Member, Core Committee for Choice Based Credit System, University of Mysore
44. **Nodal Officer**, University Auditing Committee, University of Mysore
45. **Chairman, Member**, NAAC Peer Team Committees.
46. **Fellow** of the *Mineralogical Society* of India
47. **Fellow** of the *Geological Society* of India.
48. **Fellow** of the *Geochemical Society* of India.

Visiting Professor/ Faculty Scientist

- Delivered Special Lectures and Course Lectures in various countries like **Spain, Japan, USA, Russia, UK, Germany, Holland, Poland, Italy, Korea, etc**. for Masters Course and Ph.D. course students, in the subject related to Hydrothermal, Solvothermal and Supercritical Processing of Materials.
- Frequent visit to Europe, North America, China, Korea, Russia, Malaysia, Thailand, Australia, Singapore and Japan. Also worked in several International Laboratories on both short term and long term basis. Organizing Chair of several Symposia of Major International Conferences held abroad.
- Frequently traveled in the whole of Europe, North America, Japan, South Korea, Russia, China, Singapore, Hong Kong, Malaysia, Thailand and Australia in various capacities like Research Fellow, Post-Doctoral Fellow, visiting scientist, visiting professor and Indian National Science Academy Delegate.
- Visited frequently several Universities & Institutes in the world to deliver lectures. Given below are some selected Universities and Institutes visited by **Prof**. **K. Byrappa**, around the world.
    - Seoul National University, Seoul, South Korea, *Dec .2007, Feb. 2014.*
    - Mohidol University, Thailand, *Oct. 2003, Jul. 2013.*
    - Tohoku University, Sendai, Japan, *Sept. 1989, Nov. 2005, Aug. 2006, Oct. 2006 to Sept. 2007, Oct.2008.*
    - Tokyo Institute of Technology, Japan, *Dec. 1996, Sept. 1997 to Jan. 1998, April 1999, Dec. 1999, Jul. 2000, Jan. 2001, Oct. 2003, Dec.2005, Jan., May, July, Aug., Sept. 2007, April 2008.*
    - Tokyo University of Science & Technology, Japan *Oct. 2003, Dec. 2005, Aug. 2006, July & Sept. 2007.*
    - Multimedia University, Kuala Lumpur, Malaysia, *Dec. 2005* and so on...
    - Tokyo Metropolitan Institute of Technology, Japan, *Oct. 2003, Dec. 2005*
    - University of Florence, Italy, *Aug. 2005.*
    - National University of Singapore, Singapore, *July 2005.*
    - Ettore Majorana International Center for Crystallography, Erice, Sicily, Italy, *Apr.1980, Jun. 2004.*
    - Tsinghua University, Beijing, China, *Dec. 2003.*
    - Beijing Polytechnic University, China, *Dec. 2003.*

- Jilin University, Changchun, China, *Dec. 2003.*
- Institute of Mechanics, Chinese Academy of Science, Beijing, China, *Dec. 2003.*
- Rutgers University, New Jersey, USA, *Sept. 1999 to Aug. 2001.*
- New York University, at Stony Brook, USA, *May 2001.*
- International Center for Theoretical Physics, Trieste, Italy, *Mar. 2001.*
- Tokyo University, Japan, *Jan. 2001.*
- Kochi University, Kochi, Japan, *Jul. 2000.*
- Doshisha University, Kyoto, Japan, *Oct. 1997.*
- Korea Advanced Institute of Science and Technology, Taejon, South Korea, *Dec. 1996.*
- University of Terragona, Terragona, Spain, *Jul. 1990, Dec. 1994.*
- Autonomous University of Barcelona, Bella Terra, Spain, *Oct. to Dec. 1994.*
- Moscow State University, Moscow, Russia, *1977 to 1982, Jul to Sept.1991, Sept to Oct. 1994.*
- University of Barcelona, Barcelona, Spain, *May to Jul 1987, Jul to Aug.1990, Oct to Dec. 1994.*
- Jegolian University, Krakow, Poland, *Sept. 1994.*
- Yamanashi University, Kofu, Japan, *Sept. 1989.*
- Institute of Crystallography, Moscow, Russia, *1978 to 1982.*
- Institute of General and Inorganic Chemistry, Moscow, Russia, *1978 to 1982.*
- Lebedeev Institute of Physics, Moscow, Russia, *1978 to 1982.*
- Institute of Rare Earth Materials, Moscow, Russia, *1980 to 1981.*
- DSM, Geleen, Holland, *Jun to Jul 1986.*
- ETH, Lausanne, Switzerland, *Jul 1986.*
- Torino University, Torino, Italy, *Jun 1986.*

Membership

- **Chairman,** Board of Studies in Earth Science**,** from 2013**.**
- **Chairman,** Board of Studies in Materials Science, University of Mysore**,** from 2011.
- Expert Member of the Dept. of Science and Technology, Govt. of India, on the National Program on Ferro-Fluid Technology.
- UGC Expert Committee Member on Special Assistance Programmes from 2005 to date.
- UGC Expert Committee Member on Programs for Academic Staff Colleges, 2004-2006.
- Expert Member of the Vision University of Mysore 2025.
- Academic Council, University of Mysore, India, from July 1998 to November 2001

List of Publications

1. P.Shubha, K.Namratha, and **K.Byrappa**
   Use of Emblica officinalis aqueous extract in the inhibition of Candida albicans and its effet over the physical properties of acrylic resins
   The Journal of Prosthetic Dentistry (2015) (Communicted)

2. P.Shubha, K.Namratha, and **K.Byrappa**
   Graphene Oxide -A promising material for creating surface disinfection against nosocomial pathogens"
   American Journal of Infection Control (2015) (Communicted)

3. R. Madhu Kumar, B. Lkshmeesha Rao, S. Asha, B. Narayana, **K. Byrappa**, Youjiang Wang, Donggang Yao and Y. Sangappa
   Gamma radiation assisted biosynthesis of silver nanoparticles and their characterization
   Adv. Mater. Lett. 6(12) (2015) 1088-1093

4. P.S.Manjula, B.K.Sarojini, B.Narayan, **K.Byrappa** and S.Madhan Kumar
   Crystal structure of (E) -5- (4-hydroxybenzyl)-4-{[4-methylsulfanyl)benzyl-idene]amino}-2,4-dihydro-3H-1,2,4-triazole-3-thione
   Acta Cryst. (2015). E71, o982-o983

5. P.S.Manjula, B.K.Sarojini, B.Narayan, **K.Byrappa** and S.Madhan Kumar
   Crystal structure of 4-[(E) - (4-fluorobenzylidene) amino]-3-methyl-1 H-1,2,4-triazole-5 (4H) - thione ***Acta Cryst.*** (2015). E71, o912-o913

6. Prakash S. Nayak, Badiadka Narayana, Jennifer Fernandes, Balladka K. Sarojini, Sana Sheik, Kenkere S. Shashidhara, Konambi R. Chandrashekhar and **Kullaiah Byrappa**
   Synthesis & Characterization of 2-(substituted-phenyl)acetohydrazide Analogs, 1,3,4-oxadiazoles, and 1,2,4-triazine Ring Systems: A Novel Class of Potential Analgesic and Anti-Inflammatory Agents, ***Letters in Drug Design & Discovery*** **(In Print)**

7. S.N. Sheshadri, P.Nagedra, B.P. Siddaraju, K.H. Hemakumar, **K.Byrappa,** N.K.Lokanath and S.Madhan Kumar
   Crystal structure of {[2-hydroxy-2-3-methoxyphenyl) cyclo-hexy] methyl}dimethyl-ammonium benzoate, Acta Cryst. (2015). E71, o864-o865

8. Shayan M. Byrappa, C.S.Vicas, D.Neel, K.Namratha, S.D.Keerthana, D.Ravi, and **K.Byrappa** **(Impact factor 1.6)**
   Hydrothermal growth of fine Magnetite and ferrite crystals,
   J.Crystal Growth. http://dx.doi.org/10.1016/j.jcrysgro.2015.10.027

9. K.Jagadish, S. Srikantaswamy, **K. Byrappa,** L.Shruthi, , M.R. Abhilash **(Impact factor 1.6)**
   Dispersion of multiwall carbon nanotubes in organic solvents through hydrothermal supercticial condition, ***Journal of Nanomaterials***, (2015) doi.org/10.1155/2015/381275

10. L. Kashinath, K. Namratha and **K. Byrappa, (Impact factor 2.7)**

Microwave assisted facile hydrothermal synthesis and characterization of zinc oxide flower grown on graphene oxide sheets for enhanced photodegradation of dyes, Applied Surface Science, doi.10.1016/japsusc/2015.09.072

11. C.S.Vicas, K.Namratha, **K.Byrappa,** H.S.Yathirajan
Preclinical assessment of Zinc ferrite nanoparticles synthesized using D- Glucose by hydrothermal method
Journal of Chemical, Biological, and Physcial sciences,
11/2015; 6(1). DOI:10.6084/m9.figshare.1608941

12. M.Junaid Bushiri, **K.Byrappa,** V.U.Nayar,
Raman and infrared spectral investigations of superionic $HNaZnP_2O_7$, ***Materials Today: Proceedings,*** 2 (2015) 973-976.

13. L. Kashinath, K. Namratha and **K. Byrappa,** Microwave Assisted Facile Hydrothermal Synthesis and Characterization of Nanostructure Zinc Oxide – Graphene Oxide and Photodegration of Methylene Blue, ***Microporous and Mesoporous of Materails*** (2015) [in print].

14. C. S. Vicas, K. Namratha, **K. Byrappa** and H. S. Yathirajan, Comprehensive Risk Assessment of Ni-Cu Ferrite Nanoparticles and Their Action Against Dental Caries and Lung Infections Causing Bacteria, ***Journal of Chemical and Pharmaceutical Research*** (2015) **7 (7)** 1114.

15. P. Shubha, K. Namratha, C. S. Vicas, **K. Byrappa**, B. M. Gurupadaiah, N. G. Rashmi, C. G. Shinde, Formulation and Evaluation of Slow Releasing Mouth Dissolving Films From Emblica Officinalis Fruit for Prevention of Dental Caries, ***Journal of Chemical and Pharmaceutical Research*** (2015) 7 (7) 950.

16. P. Shubha, K. Namratha, C.S. Vicas, **K. Byrappa**, I.Bharath, T. Sirisha, B.M. Gurupadaiah, Orodispersible films of punicalagin from Pomegranate peel-A novel drug delivery system for dental caries prevention, ***Materials Focus***, (2015) [in print] 4 (6).

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KEYNOTE

PRESENTED 76 PLENARY, KEYNOTE AND INVITED PAPERS AND 49 CONTRIBUTED PAPERS IN INTERNATIONAL CONFERENCES HELD IN VARIOUS COUNTRIES AROUND THE WORLD.

Presented 141 keynote / invited / contributed papers in the national conferences.

Papers presentation and participation in the international conferences/ workshops/schools held abroad

1. **K.Byrappa** and K. Namratha (2015) **(Invited Talk)**
Hydrothermal processing, characterization and applications of functional oxides materials
ICMAT 2015&IUMRS –ICA 2015, Singapore, June-28th-July 3rd, 2015

2. K.Namratha and **K. Byrappa** (2015) **(Oral Prsentation)**
Hydrothermal fabrication of Iron oxides using Piper nigrum extract,
ICMAT 2015&IUMRS –ICA 2015, Singapore, June-28th-July 3rd, 2015

3. K.Namaratha, L. Kashinath and **K. Byrappa** (2015) (Poster presentation)
Hydrothermal synthesis of hybrid Zinc sulphide- Graphene oxide nanocomposite for enhanced photocatlytic performance,
ICMAT 2015&IUMRS –ICA 2015, Singapore, June-28th-July 3rd, 2015

4. Thejus UrsG, H.T. Ananda, **K. Byrappa** and R. Somashekar (2015) (Poster Presentation) Investigation on the microstructural and conducting properties of nickel chloride doped HPMC polymer composites
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5. D. Mahadevhaiah, Thejus UrsG, **K. Byrappa** and R. Somashekar (2015) (Poster Presentation) Effect of microwave irradiation on the microstructural properties of bivoltine silk fibroin films, ICMAT 2015&IUMRS –ICA 2015, Singapore, June-28th-July 3rd, 2015

6. **K. Byrappa** and K. Namratha (2014) (**Plenary Talk**)
Hydrothermal Process Parameters vs Properties Tuning Nanoparticles
ISHA 2014 Conference; France, Oct. 28, 2014.

7. K. Namratha and **K. Byrappa** (2014) (**Oral Presentation**)
One Step Hydrothermal Fabrication of In Situ Surface ModifiedMetal Oxides Nanoparticles for Biomedical Applications"
ISHA 2014 Conference France, Oct. 27, 2014.

8. **K. Byrappa** and K. Namratha (2014) (**Plenary Talk**)
Processing of Advanced Metal Oxide Nanomaterials for Environmental Applications"
"ISASWAR -2014; China, Aug. 16, 2014.

9. **K. Byrappa** and K. Namratha (2014) (**Keynote Talk**)
Solution Processing of In situ Surface Modified Metal Oxides Nanoparticles for Biomedical Applications "2014
CINBM International Workshop; Eco-friendly and Bio-compatible Nano-Materials", Seoul, Korea, Feb. 14, 2014.

10. **K. Byrappa** and K. Namratha (2013) (**Keynote Talk**)
Solution Processing of Organic Modified Metal Oxide Nanoparticles for BiologicalApplications, "Nano-Technology/-Materials for Energy, Electronics and Others", National Cheng Kung University,
5th PCGMR/NCKU Symposium on Tainan, Taiwan, Dec. 11-13, 2013.

11. **K. Byrappa** and K. Namratha, (2013) **(Invited Talk)**
Tuning of Bandgap and Nanoporosity in Hydrothermally Prepared Metal Oxide Semiconductors for Enhancing Bioactivity, International Conference on Materials for Advanced Technology (ICMAT-2013) Jun 30-Jul 05, 2013, Singapore

12. **K. Byrappa** and K. Namratha, (2013) **(Invited Talk)**
Organic Assisted Novel Solution Processing of Photocatalytic Metal Oxide Nanomaterials International Conference on Materials for Advanced Technology (ICMAT-2013) Singapore, Jun 30-Jul 05, 2013.

13. **K. Byrappa** and K. Namratha (2013) (**Keynote Talk**)
Supercritical Hydrothermal Solution Processing of Some High Melting Nanomaterials, 3rd Ibero-American Conference on Supercritical Fluids, Cartagena, Colombia, Apr. 01-05, 2013.

14. **K. Byrappa**, (2012) (**Invited Lecture**)
Supercritical Hydrothermal Crystallization of Advanced Materials
International School of Crystallization, Granada, Spain, May 20-25, 2012,

15. K. Namratha and **K. Byrappa**,
Controlled Hydrothermal and Solvothermal Syntheses of Selectively Doped ZnO Nanocrystals on calcium aluminum silicate beads supports for enhancing photocatalytic activity,
International School of Crystallization, Granada, Spain, May 20-25, 2012,

16. **K. Byrappa** and K. Namratha (2012) (**Keynote Talk**)
Hydrothermal Processing and In situ Surface Modification of Metal Oxide Nanomaterials
10th International Symposium on Supercritical Fluids, San Francisco, USA, May 13-16, 2012.

17. K. Namratha and **K. Byrappa**, Hydrothermal and Solvothermal Syntheses, In situ Surface Modification and Antioxidant Activity of Co-Doped Advanced ZnO Nanoparticles,
10th International Symposium on Sup0ercritical Fluids, May 13-16, 2012, San Francisco, USA.

18. **K. Byrappa**, K. Namratha and M. Yoshimura (2011) (**Keynote Talk**)
Novel Solution Processing of Metal Oxide – Organic Hybrid Nanocrystals and Their Interfaces in Environmental Applications
Promotion Center for Global Materials Research Symposium on Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept 23-24, 2011

19. K. Namratha, **K. Byrappa**, M. Yoshimura, G.K.L. Goh, T. Adschiri, **(Oral Presentation)**
Growth and Characterization of Selectively Doped Surface Modified ZnO Nanocrystals,
Promotion Center for Global Materials Research Symposium on Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept 23-24, 2011

20. K. Namratha, S. Suresh and **K. Byrappa**, **(Oral Presentation)**
In situ Surface Modification of ZnO Nanomaterials under Novel Hydrothermal Solution Routes, Promotion Center for Global Materials Research Symposium on Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept. 23-24, 2011

21. S. Srikantaswamy, D. Shivakumar, **K. Byrappa**, B.M. Kiran and M. Yoshimura, **(Oral Presentation)**

Photocatalytic Degradation of Phenol using Hydrothermally Prepared ZnO Impregnated onto Activated Carbon, Promotion Center for Global Materials Research Symposium on Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept 23-24, 2011

22. **K. Byrappa**
Preparation, Characterization and Biological Activity of Selectively Doped ZnO Nanoparticles **(Invited Talk)**
IUMRS-ICA 2011, 12th IUMRS International Conference in Asia, Taipei, Taiwan Sept.19-22, 2011

23. S. Srikantaswamy, K. Vivek, D. Shivakumar and **K. Byrappa**,
Biodegradation of Dyes in Aqueous Solution using Fungi, IUMRS-ICA 2011,
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24. K Namratha, **K. Byrappa**, A. Jamuna Bai and V. Ravishankar Rai,
Novel Solution Routes of Synthesis, Characterization and Antimicrobial Activity Study of Selectively Doped ZnO Designer Nanoparticles,
IUMRS-ICA 2011, 12th IUMRS International Conference in Asia, Taipei, Taiwan, Sept.19-22, 2011.

25. **K. Byrappa** and K. Namratha, **(Invited Talk)**
Hydrothermal Synthesis and Photocatalytic Studies of In situ Surface Modified Silver Doped ZnO Nanoparticles, IUMRS-ICA 2011,
12th IUMRS International Conference in Asia, Taipei, Taiwan. Sept. 19-22, 2011

26. **K. Byrappa** and K. Namratha, **(Invited Talk)**
Recent Progress in the Novel Hydrothermal Solution Processing of Advanced High Melting Nanomaterials
10th International Symposium on Advanced Organics Photonics and 1st International Symposium on Super-hybrid Materials, Tokyo & Sendai, Japan. Sept 28-Oct. 02, 2010

27. **K. Byrappa**, (**Keynote Talk**)
Novel Routes of Hydrothermal Solution Processing of Advanced Nanomaterials 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) Beijing, China, July 27-29, 2010.

28. **K. Byrappa, (Invited Talk)**
Novel Hydrothermal Solution Routes of Advanced Nanomaterials and Nanoceramic Processing 12th International Ceramics Congress, Montecatini Terme, and Tuscani, Italy. June 06 – 11, 2010.

29. **K. Byrappa, (Invited Talk)**

Crystallization of Polyscale Materials through Hydrothermal Routes International School of Crystallization, Granada Spain, May 24-28, 2010,

30. K. Namratha, S. Suresha, M.B. Nayan and **K. Byrappa**, **(Oral Presentation)**
Synthesis, Characterization and Photocatalytic Properties of Silver Doped ZnO,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010)
Beijing, China, July 27-29, 2010.

31. K. Soga, D. Ehrentraut, K. Namratha and **K. Byrappa**, , **(Oral Presentation)**
In situ sydrothermal Surface Modification and Photoluminescence Properties of ZnO Nanocrystals,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010)
Beijing, China, Jul. 27-29, 2010.

32. G. Chaitanya Lakshmi, S. Ananda, Netkal M. Made Gowda, B.R. Srilatha and **K. Byrappa**, , **(Oral Presentation)**
Synthesis of Iron-Pyridoxine Complex by Solvothermal process, its Structural Characterization and Anti-Oxidant Activity Evaluation,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010),
Beijing, China, Jul. 27-29, 2010.

33. K. Namratha and **K. Byrappa**, **(Oral Presentation)**
Hydrothermal Synthesis, Surface Modification and Photocatalytic Properties of ZnO Designer Particulates, 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China, Jul. 27-29, 2010.

34. S. Ananda, G. Chaitanya Lakshmi, R. Somashekar, C. Ranganathaiah and **K. Byrappa,** , **(Oral Presentation)**
Semiconductor Assisted Photodegradation of Dyes, Pesticides and Industrial Effluent by ZnO:Ru and ZnO/RuO2/AgO Nanocomposites, Synthesized by Electrolytic Method,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010)
Beijing, China, Jul. 27-29, 2010.

35. M.B. Nayan, K. Namratha and **K. Byrappa**, **(Poster Presentation)**
Hydrothermal Synthesis and Photocatalytic Properties of Pure and Doped ZnO Fine Crystals,
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Beijing, China, Jul. 27-29, 2010.

36. B. Shahmorady, K. Namratha, **K. Byrappa**, K. Soga, S. Ananda and R. Somashekar, Enhancement of Photocatalytic Activity of Modified Mn Doped ZnO Nanoparticles, 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China. Jul 27-29, 2010.

37. **K. Byrappa, (Invited Talk)**
Decolouration of Indigo Carmine Dye by Oxidation Process Using Cobalt (II) and Chloramine-T, 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China, Jul. 27-29, 2010.

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Extraction of Biomaterial from the Medicinal Plant: A Study of Antidiobetic Activity, 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China, July 27-29, 2010.

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1. **K. Byrappa** and K. Namratha (**Invited Talk**)
Current Trends in the Hydrothermal Technology for the Processing of Functional Advanced Materials
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2. **K. Byrappa** and K. Namratha (**Plenary Talk**)
Hydrothermal Growth and Properties of Metal Oxide Nanocrystals
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3. C. S. Vicas, K. Namratha and **K. Byrappa**
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11. Shanthini Keerthana, K. Namratha, and **K. Byrappa**
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12. **K. Byrappa** and K. Namratha **(Invited Talk)**
Role of in situ Modification and selective doping of Metal oxides for controlled morphology and properties

43rd National seminar on Crystallography and International workshop on Application of X-ray diffraction for Drug Discovery, Nov. 21- 23, 2013, India

13. **K. Byrappa** and K. Namratha
Organic assisted solution processing of TiO_2, ZnO, $NiFe_2O_4$ and Fe_3O_4 particles for applications
International conference of IUMRS-ICA, Dec. 16-20, 2013, Bangalore, India.

14. K. Namratha and **K. Byrappa**
Selectively Doped Zinc Oxide Polyscale Designer Crystals,
41st National Seminar on Crystallography, 08-10, Oct. 2012, Chennai, India.

15. **K. Byrappa** and K.Namratha
Morphology Control of TiO_2 and ZnO Crystals under Hydrothermal and Conditions **(Invited Talk)**
41st National Seminar on Crystallography, 08-10, Oct. 2012, Chennai, India.

16. K. Namratha and **K. Byrappa**
Novel Solution Routes Synthesis, Surface Modification and Photocatalytic Properties of and Selectively Doped Zincite Nanomineral
National Seminar on Recent Advances in Mineral Sciences and Their Applications (RAMSTA) & Golden Jubilee Celebrations of the Mineralogical Society of India, 17-18, March 2011, Mysore, India

17. **K. Byrappa** and K.Namratha (**Keynote Talk**)
Nanomineralogy- from Geology to Technology
National Seminar on Recent Advances in Mineral Sciences and Their (RAMSTA) & Golden Jubilee Celebrations of the Mineralogical Society of India, 17-18, March 2011, Mysore, India

18. **K. Byrappa** and K. Namratha **(Invited Talk)**
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19. K. Namratha, **K. Byrappa** and Ravishankar Rai
Design and Fabrication of in situ surface modified ZnO Nanohybrid Crystals and their Biological Activities
40th National Seminar on Crystallography, 26-28, Nov. 2011, Hyderabad, India

20. **K. Namratha, P. Natraj, K. Meghana and K. Byrappa**
Morphology and Characterization of Codoped ZnO and its Photocatalytic Applications
40th National Seminar on Crystallography, 26-28, Nov. 2011, Hyderabad, India

21. **K. Byrappa**
Recent Advances in Nanomaterials Processing (**Plenary Talk**)
Advances in New Engineering Materials and Characterization (AMC-2010) 28.12.2010, Sullia, D.K., India

22. Parwin Tabasom and **K. Byrappa**
Hydrothermal Synthesis and Characterization of TiO2 for Photocatalytic Degradation of Brilliant Blue Dye
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28.12.2010, Sullia, D.K., India

23. **K. Byrappa** and K. Namratha
Synthesis and Characterization of Metal Oxides for Energy Applications **(Invited Talk)**
International Conference on Applications of Renewable and Sustainable Energy for Industry and Society (REIS 2010), December 16-18, 2010, Hyderabad, India.

24. K. Namratha and **K. Byrappa**
Synthesis and Characterization of ZnO under mild Hydrothermal Conditions
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25. Tabasom Parvin and **K. Byrappa**
Hydrothermal Synthesis, Characterization and Photocatalytic Activity of TiO_2 Polyscale Crystals for Rhodamine B Degradation
International Conference on Applications of Renewable and Sustainable Energy for Industry and Society (REIS 2010), December 16-18, 2010, Hyderabad, India.

26. **K. Byrappa** and K. Namratha
Design and Synthesis of Advanced High Melting Nanocrystals through Novel Routes of Solution Processing (**Invited Talk**)
39th National Seminar on Crystallography, October 25-27, 2010, Jammu, India

27. K. Namratha and **K. Byrappa**
In Situ Surface Modification of ZnO Nanocrystals under Solvothermal Conditions and their Photocatalytic Properties
39th National Seminar on Crystallography, October 25-27, 2010, Jammu, India

28. Tabasom Parvin and **K. Byrappa**
Surface Modification of TiO2 and ZnO Polyscale Crystals and their Environmental Applications
39th National Seminar on Crystallography, October 25-27, 2010, Jammu, India

29. **K. Byrappa**, S.P. Madhusudan and B. Basavalingu
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Growth and Characterization of $NH_4Zr_2V_3O_{12}$
3rd National Seminar on Crystal Growth, Feb. 16-19, 1987, Madras

136. **K. Byrappa**, G.S.Gopalakrishna, A.B.Kulkarni and J.Shashidhara Prasad
Growth and Characterization of $NaCu_2ZrP_3O_{12}$

3rd National Seminar on Crystal Growth, Feb. 16-19, 1987, Madras.

137. **K. Byrappa**
Growth of Rare Earth Phosphates
III National Seminar on Crystal Growth, Feb. 16-19, 1987, Madras

138. **K. Byrappa**, G.S.Gopalakrishna, D.S.Mahadevappa and J.Shashidhara Prasad
Thermal Expansion Study of Na_2 (La,Al)ZrP_3O_{12} Crystals
Solid State Physics Symposium, Pantnagar, Dec. 1986.

139. **K. Byrappa**, N.B.Desai, A.B.Kulkarni and S.Srikantaswamy
Synthesis and Characterization of some Vanadates
Solid State Physics Symposium, Pantnagar, Dec. 1986.

140. **K. Byrappa**
Hydrothermal Growth of Crystals..
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141. **K. Byrappa**, A.B.Kulkarni, N.B.Desai and G.S.Gopalakrishnan
Creation of Superionics by Ion implantation of Natural Minerals.
Seminar on Research with Accelevators, Jan. 31st to Feb. 2nd, 1986, Bangalore

142. **K. Byrappa**,
Synthesis and Characterization of some New Super Ionic Conductors Na_2(La, Me) ZrP_3O_{12}& $NaMe_2ZrP_3O_{12}$ Crystals.
Symposium on Crystal Growth, Jan. 29-31, 1986, Calcutta, India.

143. **K. Byrappa**,
Influence of Admixtures on the Crystallization in Polymorphic Transitions of Piezoelectric Aluminium Orthophosphate.
Symposium on Crystal Growth, Jan. 29-31, 1986, Calcutta, India.

144. **K. Byrappa**, N.B.Desai, A.B.Kulkarni and S.Srikantaswamy
Synthesis of a New Proton Conductor – $NH_4Zr_2V_3O_{12}$.
Workshop on Material Science, IIT, Kanpur, India, Feb. 28th to March 2nd, 1985.

145. **K. Byrappa**, G.S.Gopalakrishna, D.S.Mahadevappa and J.Shashidhara Prasad
Thermal Expansion Study of $NaNi_2ZrP_3O_{12}$.
Workshop on Material Science, IIT, Kanpur, India, Feb. 28th to March 2nd, 1985.

146. **K. Byrappa**, A.B.Kulkarni and G.S.Gopalakrishna
Hydrothermal Synthesis and Characterization of Na_2(La, Me) ZrP_3O_{12} Crystals

National Workshop on Material Science IIT, Kanpur, India Feb. 28 March 2, (1985)
International School on Photovoltaics, Dept. of Non-Conventional Energy, Dec. 1984, Bangalore.

147. **K. Byrappa**, G.S.Gopalakrishna and A.B.Kulkarni
Hydrothermal Growth of NASICON Group of Fast Ionic Conductors
Solid State Symposium, BARC, Bombay, Dec. 22-26, 1984.

148. **K. Byrappa**
Growth of Alkaline Rare Earth Phosphates
International School on 'Physics of Materials, IIT, Madras, India, September 4-22, 1984.

Technical Reports Prepared

Prepared technical reports for several funding agencies of Government of India and companies based on the research work carried out.

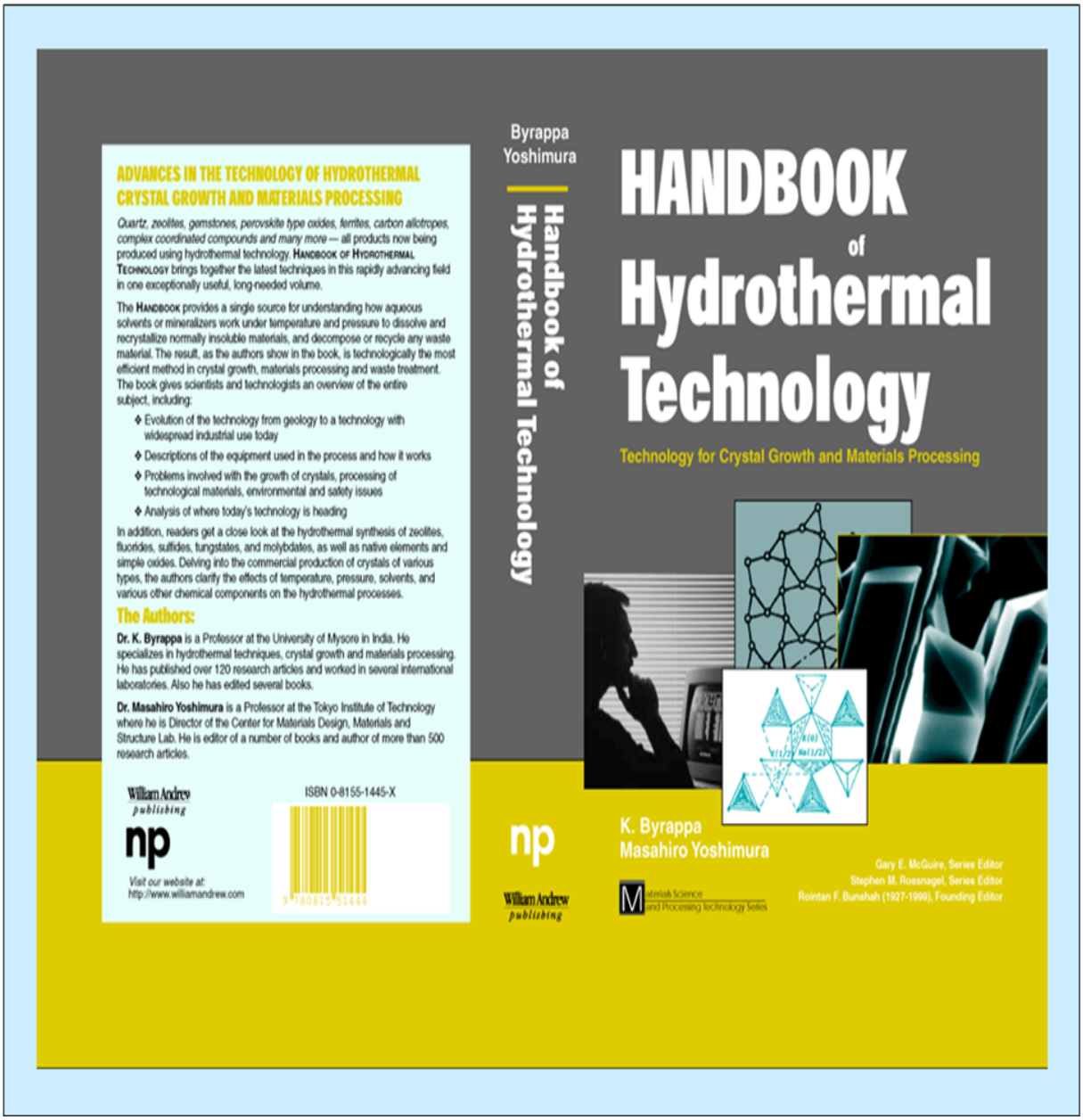
Interests

- *Developing New Teaching Methods and Inspiring Students in the Subject through Closer Interaction and Popularize my Field of Specialization.*
- *Enriching Students' Knowledge not only in the prescribed syllabus, but also in Science as a whole and tuning their attitude towards Interdisciplinary Nature of Science.*

Other Activities

a. *Delivers Extension Lectures on : Mineral and Rock Formation in Nature, Crystal Growth, Mineral Synthesis, Earthquakes, Volcanoes, Tsunamis,*
b. *Environmental Education, Globalization of Higher Education, etc in South Indian Universities in Karnataka, Tamilnadu, Kerala, & Pondicherry*
c. Actively participated in the *Cultural Activities in the Moscow State University*, Moscow, Russia.
d. Actively participated in the *Cultural Activities in the* Mysore *University,* India.
e. Delivered *Radio Talks on the All India Radio* on the topic *Crystal Growth Science*.
f. Delivered *Popular Science Lectures* for the School Children and College Students and other Public Institutions.
g. Actively participated in the *International Red Cross Society Activities* during the Higher Secondary School Days, and also passed the qualifying examination.
h. Very Fluent in Russian Language.
i. Working knowledge in Spanish, Japanese, French and German Languages.

COVER PAGES OF MY BOOKS


ADVANCES IN THE TECHNOLOGY OF HYDROTHERMAL CRYSTAL GROWTH AND MATERIALS PROCESSING
Quartz, zeolites, gemstones, perovskite type oxides, ferrites, carbon allotropes, complex coordinated compounds and many more — all products now being produced using hydrothermal technology. HANDBOOK OF HYDROTHERMAL TECHNOLOGY brings together the latest techniques in this rapidly advancing field in one exceptionally useful, long-needed volume.
The HANDBOOK provides a single source for understanding how aqueous solvents or mineralizers work under temperature and pressure to dissolve and recrystallize normally insoluble materials, and decompose or recycle any waste material. The result, as the authors show in the book, is technologically the most efficient method in crystal growth, materials processing and waste treatment. The book gives scientists and technologists an overview of the entire subject, including:
Evolution of the technology from geology to a technology with widespread industrial use today
Descriptions of the equipment used in the process and how it works
Problems involved with the growth of crystals, processing of technological materials, environmental and safety issues
Analysis of where today's technology is heading
In addition, readers get a close look at the hydrothermal synthesis of zeolites, fluorides, sulfides, tungstates, and molybdates, as well as native elements and simple oxides. Delving into the commercial production of crystals of various types, the authors clarify the effects of temperature, pressure, solvents, and various other chemical components on the hydrothermal processes.
The Authors:
Dr. K. Byrappa is a Professor at the University of Mysore in India. He specializes in hydrothermal techniques, crystal growth and materials processing. He has published over 120 research articles and worked in several international laboratories. Also he has edited several books.
Dr. Masahiro Yoshimura is a Professor at the Tokyo Institute of Technology where he is Director of the Center for Materials Design, Materials and Structure Lab. He is editor of a number of books and author of more than 500 research articles.
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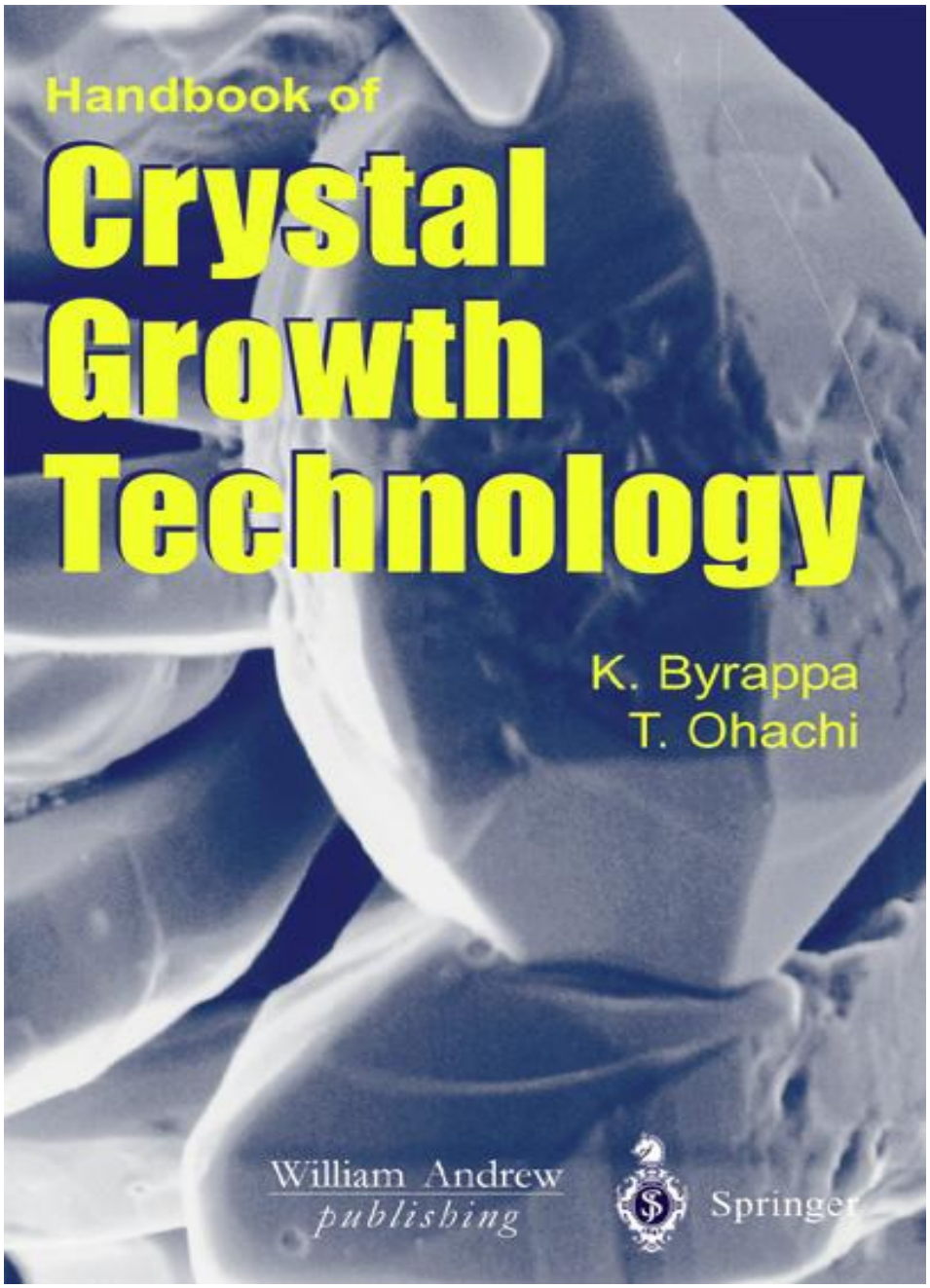
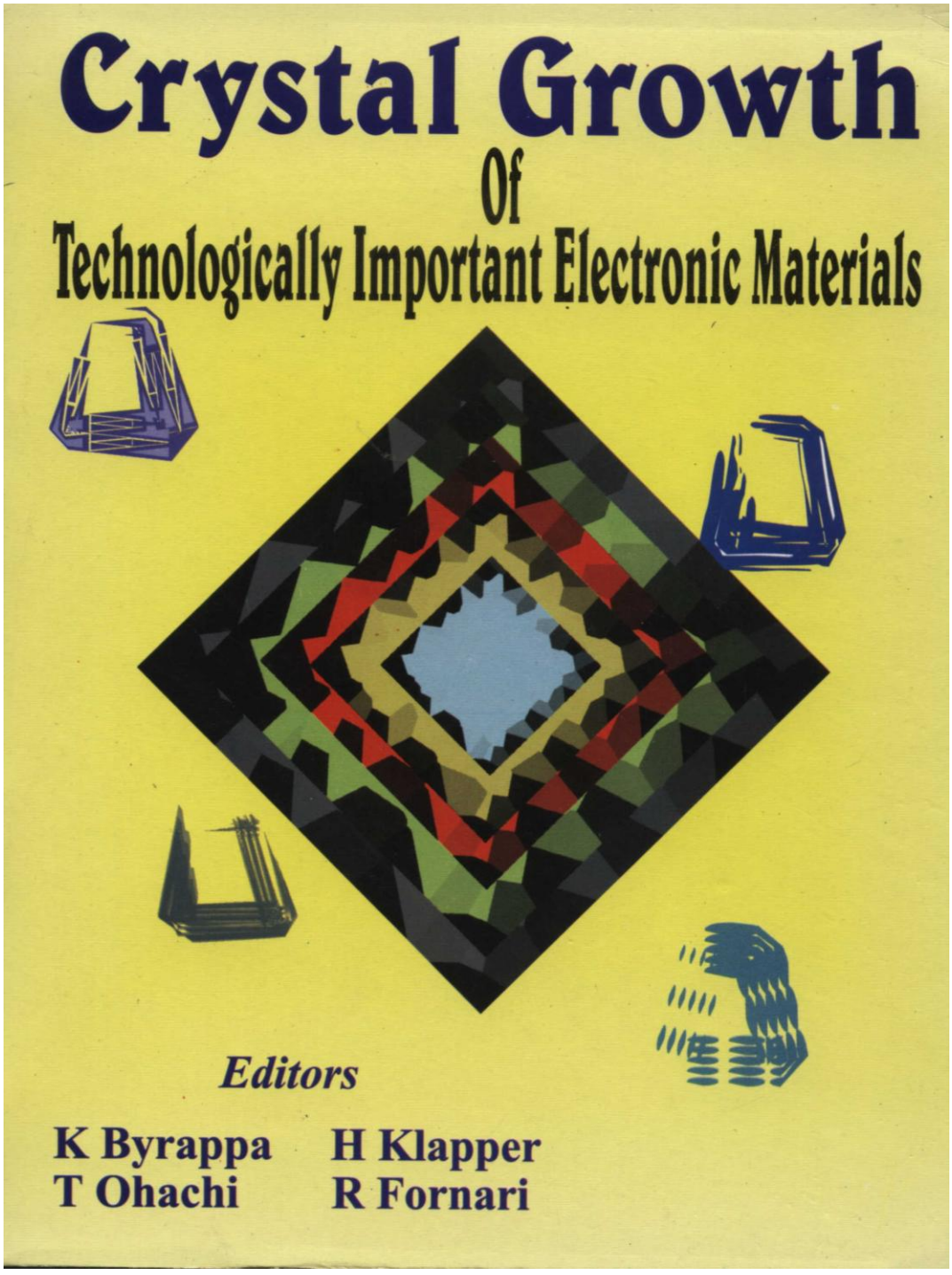

Handbook of
Crystal Growth Technology
K. Byrappa
T. Ohachi
William Andrew publishing
Springer


Crystal Growth
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K Byrappa
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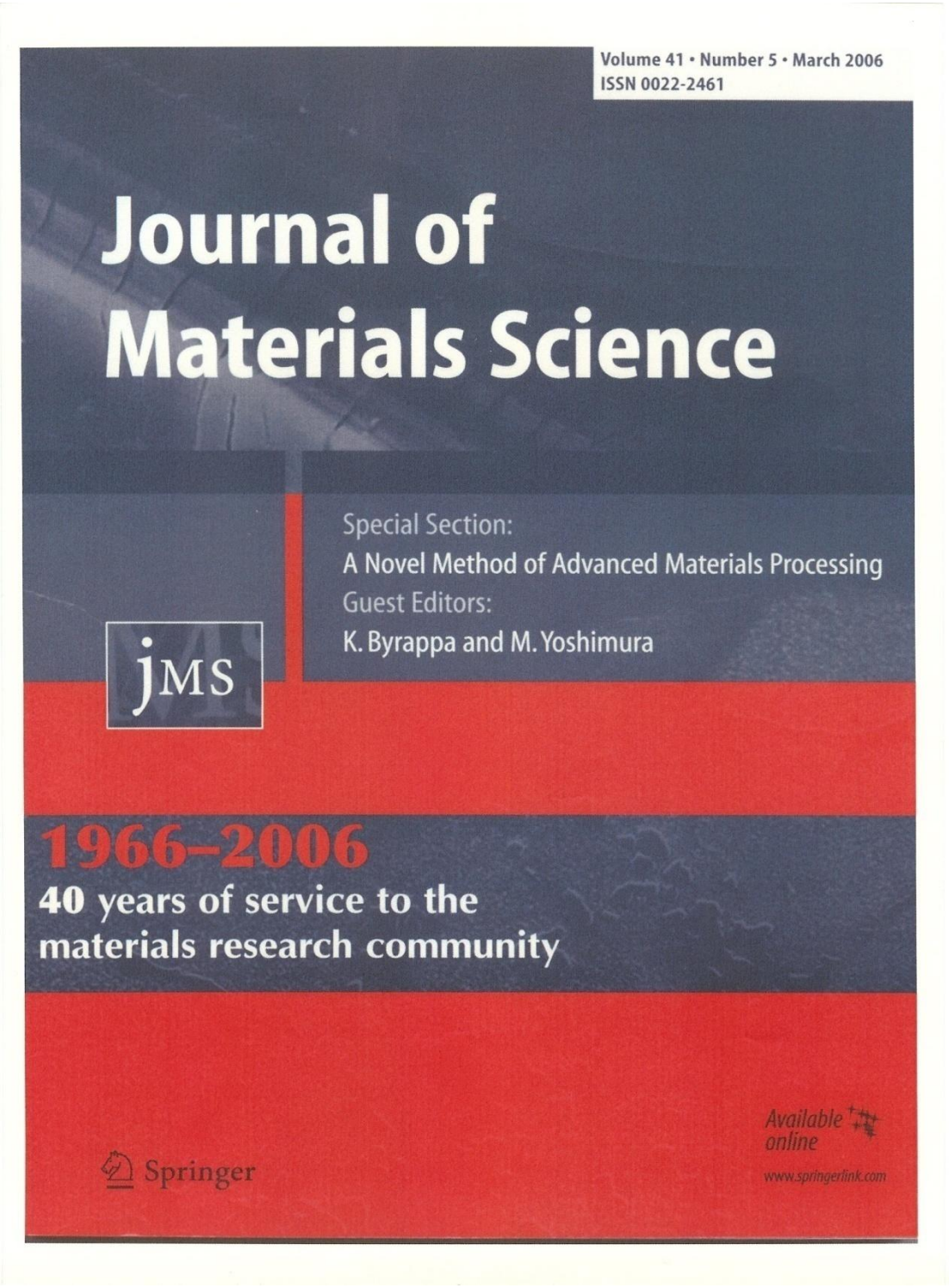
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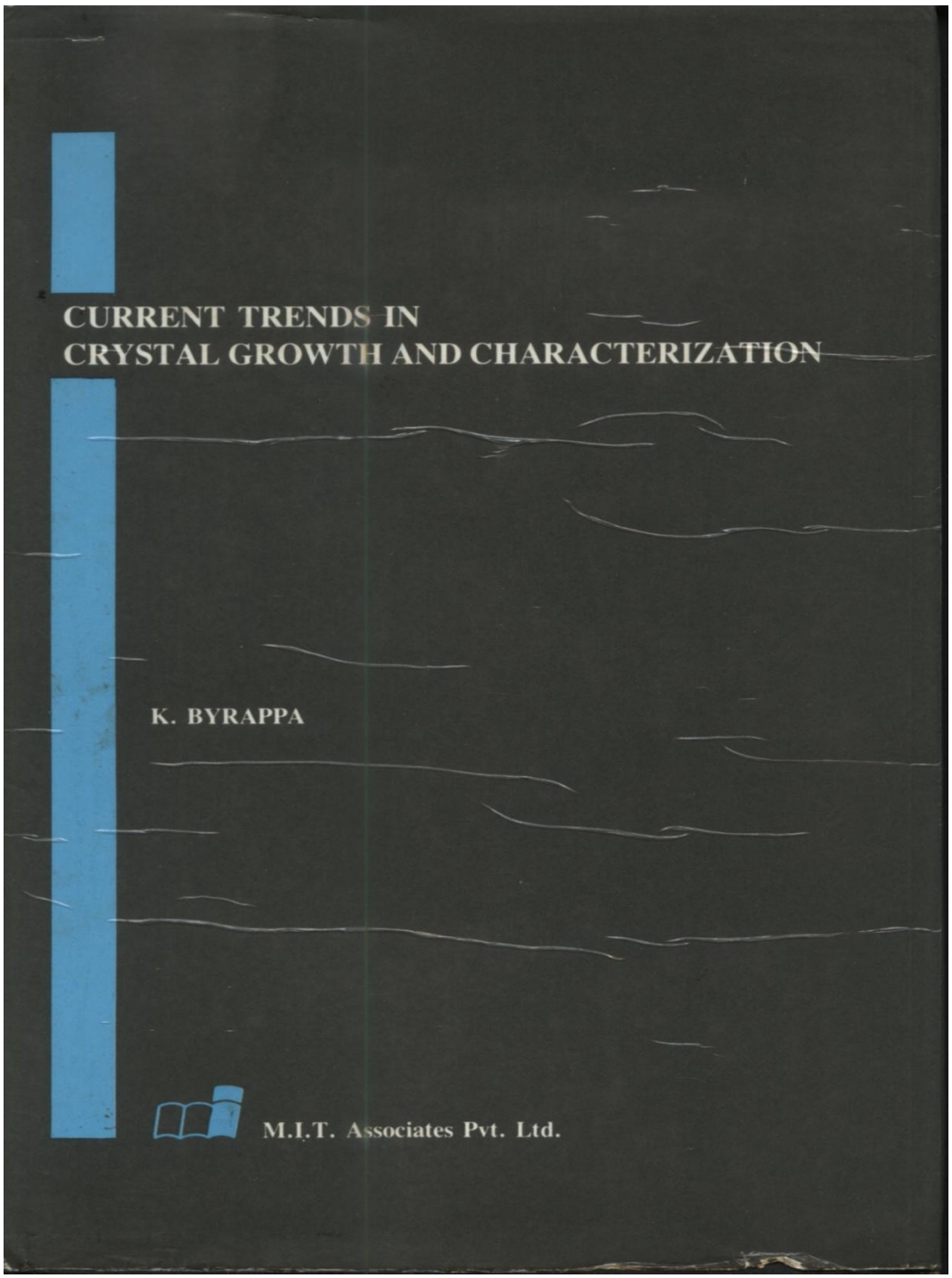
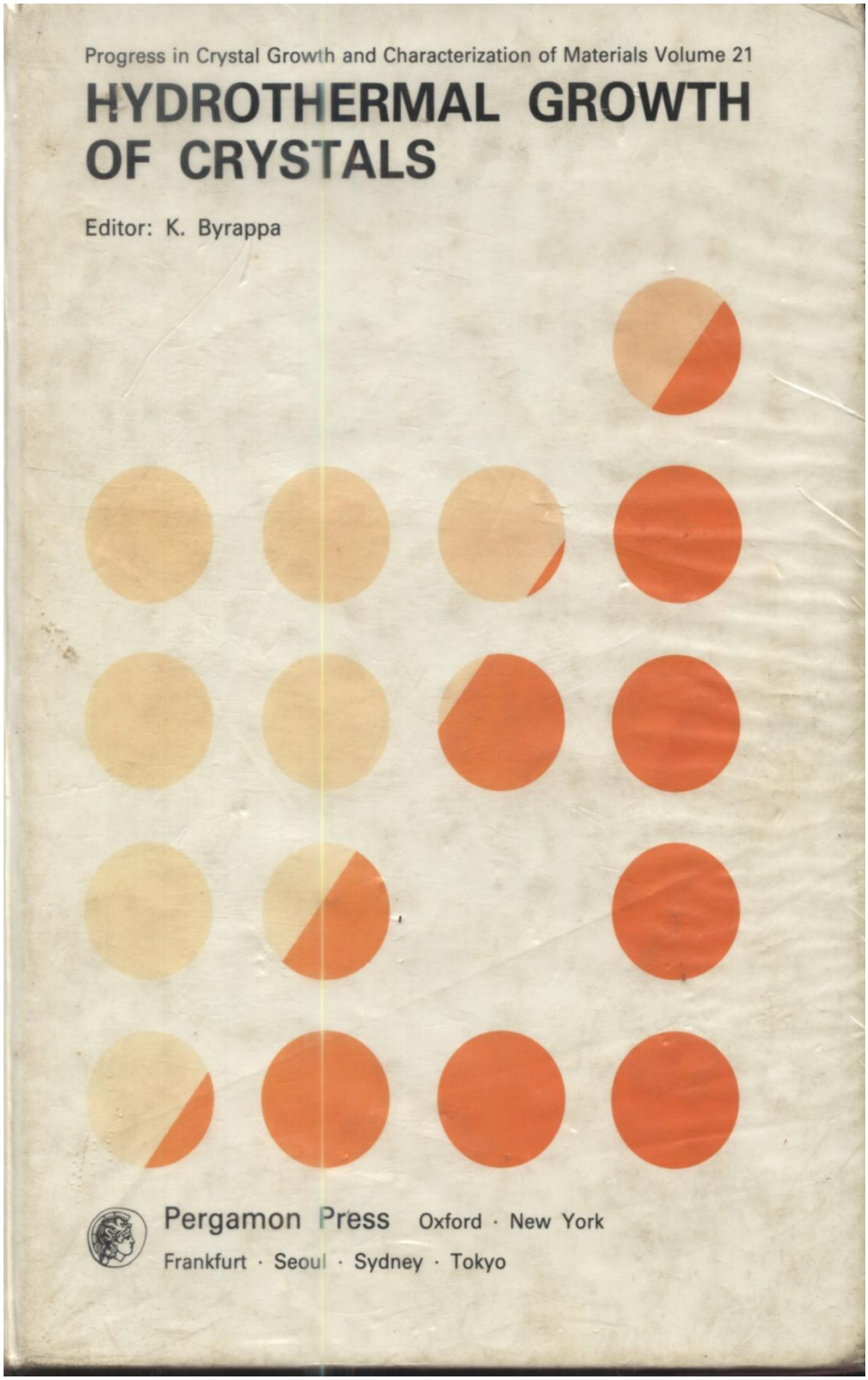

CURRENT TRENDS IN
CRYSTAL GROWTH AND CHARACTERIZATION
K. BYRAPPA
M.I.T. Associates Pvt. Ltd.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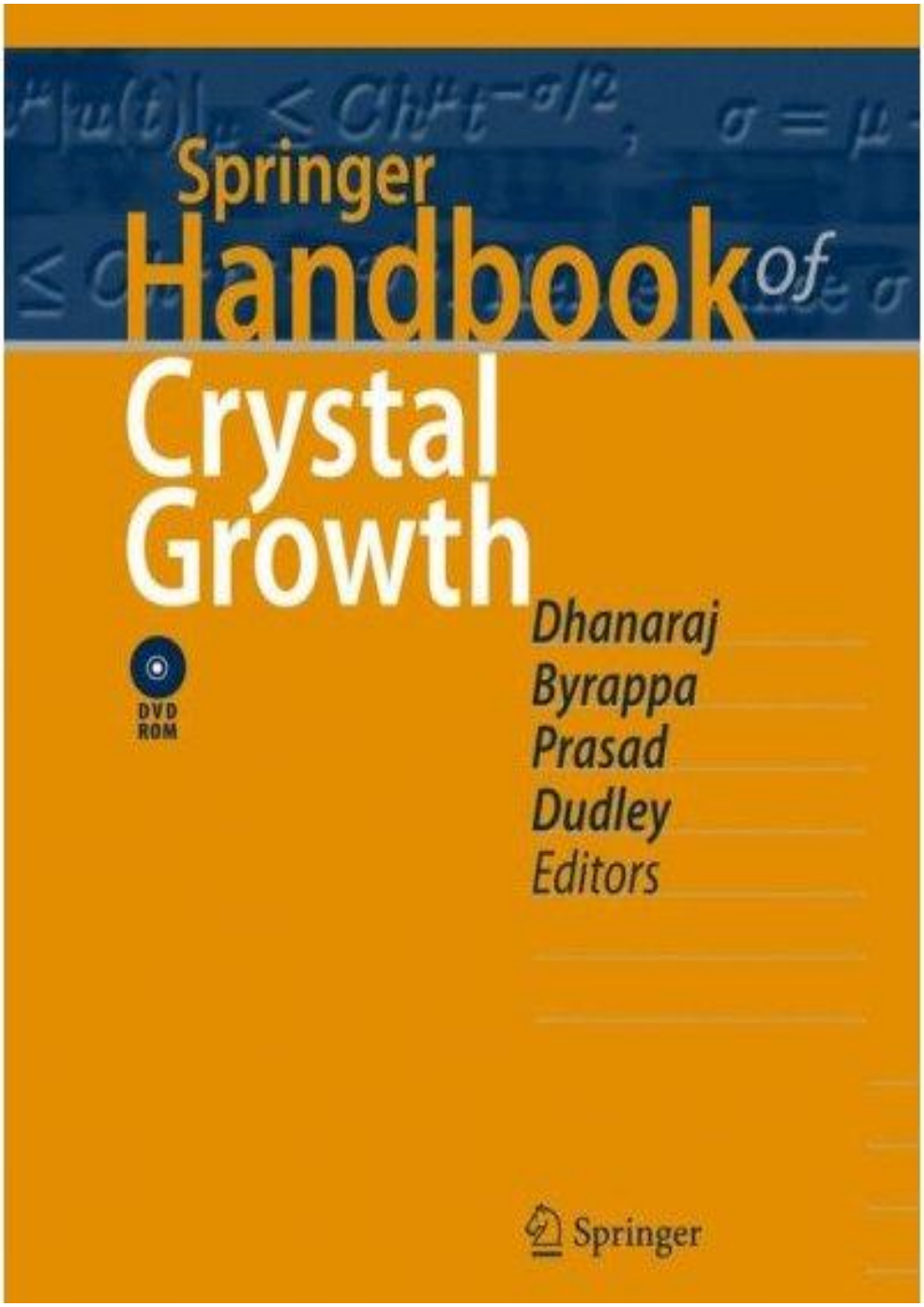
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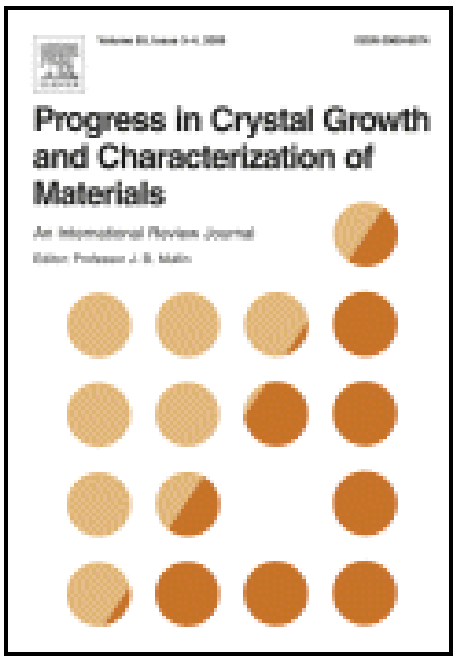
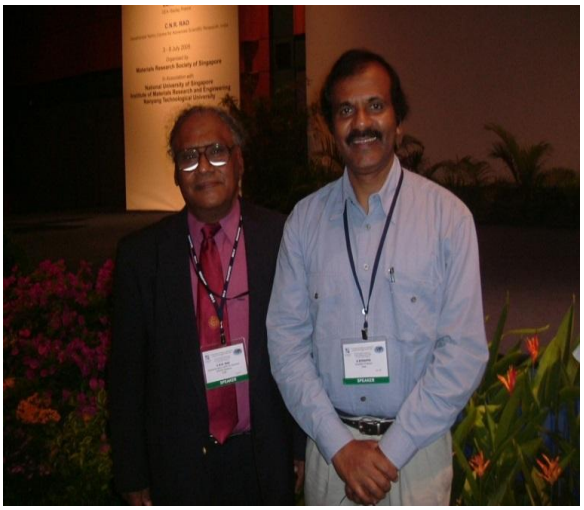


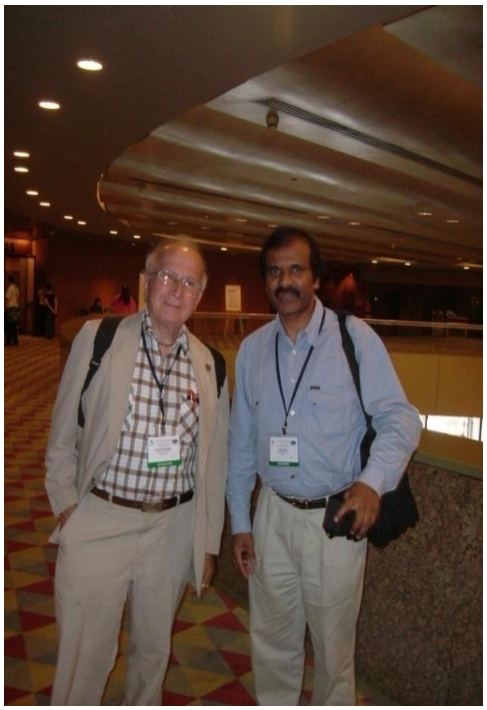
Crystals lie at the root of much of today's and III-V compounds are needed for microprocessors and optoelectronics, magnetic crystals provide some computer memories, and crystals of all kinds are required for scientific studies and new applications. This journal is ...

Prof.M. Yoshimura being felicitated in the presence of Prof.C.N.R. Rao during 6th International Conference on Solvothermal Reactions held in Mysore during August 2004

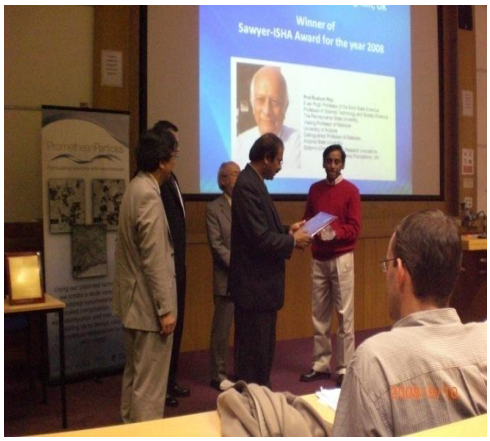


With Prof.C.N.R. Rao, of India during ICMAT-2005, in Singapore

With ISHA Executive Committee Members during the Meeting in Nottingham, UK, held on Sept. 9, 2008



With Prof.Roald Hoffmann of Cornell University, USA, Nobel Laureate in Chemistry 1981

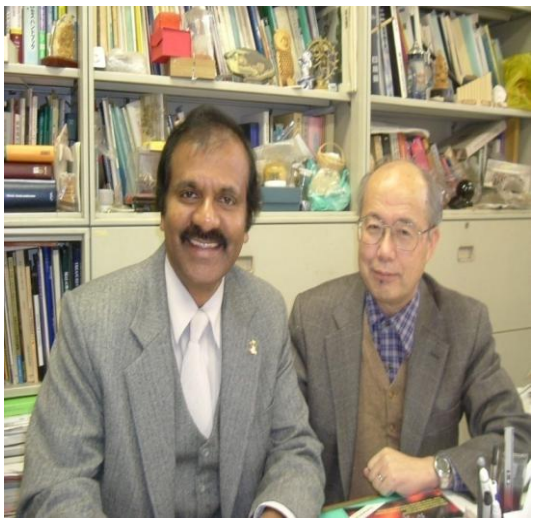


Presenting ISHA-Sawyer Lifetime Achievement Award of Prof.Rustum Roy, to Prof.S. Komarneni, USA, during ISHA-2008 conference held in Nottingham, UK, during Sept. 2008

With the Scientific Program Committee Members of the XX-International Union of Crystallography Congress, during the program committee meeting held in Sicily, Italy, during May 2004

From left to right With Prof.Mortyn Poliakoff, FRS, UK (Editor in Chief of Journal of Green Chemistry) and Prof.B.V.R. Chowdhuri, President of IUMRS, and President MRS-Singapore

With Nobel Laureate in Physics 2007, Prof. Peter Grünberg of Germany

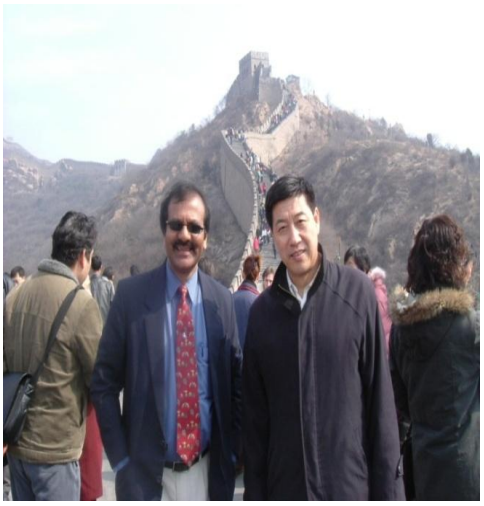


With Prof.M. Yoshimura, a close collaborator from Japan during a visit to his laboratory in Ocrtober 2005

During the Executive Committee Meeting of the International Commission on Crystal Growth, held during IUCr Congress and General Assembly in Osaka, Japan, August 2008

With team of researchers from Mysore, along with Prof.M. Yoshimura and Prof.T. Adschiri, during ISHR-8 & ICSTR-6 Joint Meeting held in Sendai, Japan, during August 2006

With senior members of ISHA executive committee and some delegates of ISHR& ICSTR-6, in Sendai, Japan, August 2006



At the Great Wall of China, with Prof.Bauxin Han from the Chinese Academy, in Beijing, during Feb. 2007

As a speaker with the members of the International Commission on Crystal Growth, during an International School held at the Abdus Kalam International Center for Theoretical Physics, in Trieste, Italy during April 2001

During the Executive Committee Meeting of the International Commission on Crystal Growth, held in Florence, Italy, during August 2005

As a Keynote speaker at the SUPERGREEN 2007 held in Seoul, Korea, with delegates

During launching of "Springer Handbook of Crystal Growth" Eds.G. Dhanaraj, **K. Byrappa**, Vish Prasad and M. Dudley, during ICCG-17, Beijing, China, on 9th August 2010

Prof.**K. Byrappa** receiving the Fellowship of the World Academy of Ceramics, in Montecatini, Italy during 12th World Ceramic Congress, held during June 6-12, 2010

Prof.**K. Byrappa** delivering lecture to the participants of International school of Crystal Growth at ICTP in Trieste April 2001.

Prof.**K. Byrappa** receiving Materials Research Society of India Medal from Dr..R. Mashelkar, Director General, CSIR, India, during 2005, in Pune.