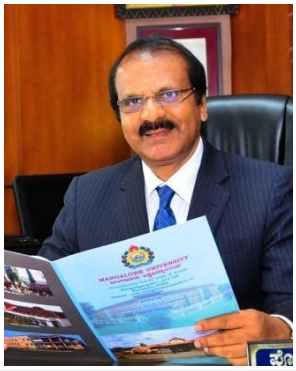


Prof.K. Byrappa

Ph.D. (Moscow), FWAC

Curriculum Vitae

Vice-Chancellor

Mangalore University
Mangalagangotri-574 199,
Mangalore,
Karnataka, INDIA

Communication

Work
Phone : +91-824-2287347, 2287380
Fax : +91-824-2287367
Cell :
E-mail: kbyrappa@gmail.com

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

Phone: +91-821-2515346
Fax : +91-821-2515346
Cell : +91- 9845274072

Education

- Ph.D. (Materials Science), Moscow State University, Russia, 1981.
- M.Sc. (Geology), University of Mysore, 1975 (Ist rank, Distinction, Gold Medalist).
- Diploma in Russian Language, Moscow State University, Russia, 1978 – 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, 1969.

Academic Positions

- 1975 – 1977 (November) Research Fellow, University of Mysore.
- 1977 (December) – 1981 Research Associate, Moscow State University.
- 1981 – 1982 Post-Doctoral Fellow, Moscow State University.
- 1983 – 1987 Assistant Professor – University of Mysore.
- 1987 – 1998 Associate Professor –University of Mysore.
- 1998 – 2015 Professor – University of Mysore.
- 2004 – 2006 Director, UGC-Academic Staff College, University of Mysore.
- 2009 – 2011 Chairman, Dept. of Earth Science, University of Mysore.
- 2009 – 2014 Founder Director, Internal Quality Assurance Cell, (IQAC), University of Mysore.
- 2012 – 2014 Coordinator, Center with Potential for Excellence in a Particular Area, University of Mysore.
- 2012 - 2014 Chief Coordinator, University with Potential for Excellence, Inter-Departmental Program, University of Mysore.

- 2012 – 2013 Founder Coordinator, M.Tech. In Materials Science, Centre for Materials Science and Technology, University of Mysore.
- 2014 (June) - Vice Chancellor at Mangalore University.

Current Research Interests

Nanotechnology, X-ray crystallography, Crystal growth, Crystal Chemistry, Experimental Mineralogy, Nanomaterials, New Advanced Materials, Advanced Materials Processing, Bioceramics, Ceramic coatings, Solid electrolytes, Photonic materials, Metal oxides, Environmental Science and Engineering, Nanogeoscience, Water Technology and Water Treatment, Carbon, Photocatalysts, Zeolites, Thermodynamic modelling.

Publications

Authored/Co-authored/In-preparation of around 300 research articles, 12 books/special editions and 33 major reviews/book chapters. (List attached)

Awards, Recognitions and Fellowships

Sir C.V.RAMAN BIRTH CENTENARY GOLD MEDAL presented by the Hon'ble Prime Minister of India at the Indian Science Congress Association, 2017 (National Award).

Elected ACADEMICIAN, World Academy of Ceramics, Italy from 2009 onwards

Elected FELLOW, Asia Pacific Academy of Materials, from 2017 onwards.

Elected GENERAL SECRETARY, Asia Pacific Academy of Materials, from 2017 onwards.

Dr. RAJA RAMANNA AWARD for Science and Technology, 2011 (highest State Award for Science Education), Govt. of Karnataka.

Medal, Materials Research Society of India, 2004

Recipient of Sir C V RAMAN AWARD in Physical Sciences, for the year 1998, Govt. of Karnataka.

Recipient of the ATTRACTIVE PAPER AWARD in the IX International Conference on

Crystal Growth, August 20-25, 1989, Sendai, Japan.

Recipient of the University of Mysore GOLDEN JUBILEE AWARD twice (1987 and 1992) for the BEST RESEARCH WORK in the University of Mysore.

Indian Association of Crystal Growth Award 2014, India

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

ASSOCIATE EDITOR, Journal: Progress in Crystal Gorwth and Characterization of Materials– a Review Journal from Elsevier Science Publishers, The Netherlands (Impact Factor: 9.25 till 2007; present is 4.785)

CO-EDITOR IN CHIEF Journal: Materials Research Innovation, Publishers: Taylor and Francis, U.K. (Impact Factor: 1.8). Currently Editorial Board Member.

EDITORIAL BOARD MEMBER, Journal: Ceramics International, Elsevier Publications, Holland (Impact Factor: 2.758).

EDITORIAL BOARD MEMBER, Journal: The Open Access Crystallography Journal, Bentham Publications, USA.

Referee for various Journals being published by Elsevier, Springer, John Wiley and Sons, Royal Society of Chemistry, American Chemical Society Publications, MRS – USA, Taylor and Francis, American Scientific Publishers etc.,

Selected to Elite Club of 2000 Outstanding Personalities of 20th Century, in Science & Technology by International Biographic Centre, Cambridge, U.K.

Fellow of the Mineralogical Society of India

Fellow of the Geological Society of India.

Fellow of the Geochemical Society of India.

Present h-index of the University of Mysore is 68 with my individual contribution of about 24%.

Out of TOP 68 papers contributing to the University's h-index, TOP papers are my publications with highest number of citations.

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.

Organized over 15 International Symposia in various countries like Japan, China, USA,

UK, France, Singapore, Taiwan, Italy, etc., as Chair/Co-Chair.

VIJAYAVANI NATIONAL EDUCATION LEADERSHIP AWARD 2015.

GOLD MEDALIST in Master of Science Degree, Mysore University, 1975.

GOLD MEDALIST in Bachelor of Science Degree, Mysore University, 1973.

Recipient of SUBJECT SCHOLARSHIP from 1973 to 1975.

New Initiatives Undertakes as Vice-Chancellor

- Internatiolization of Higher Education through collaboration and mobility of faculty and students.
- Admission of foreign students (more than 150 in two years) for the first time in Mangalore University.
- Wi-Fi connectivity on the campus.
- Constitution of Research Promotion and Consultancy cell (RCPC).
- Development of new Dynamic and initiative web portal with kiosks and digital display systems.
- Beautification of the campus through landscaping, garden, lawn, fountain etc...
- Centralised tender processing cell.
- Laptops to all SC/ST research students.
- Laptops to all the regular teachers.
- Open House programme to show case the achievements of the Mnagalore University to the stake holders.
- Preparation of Vision 2030 document to guide the university towards achieving excellence.
- Appointment of Adjunct Professors to motivate young teachers and researchers and to promote collaborative research.

- Upgradation of science departments' laboratories as Modular Laboratories.
- Best Teacher award to motivate teachers.
- Computerisation of offices for *e*-Governance.
- Estabilishement of online document verification system.
- Promotion of interdisciplinary and cross - disciplinary research.
- Installation of anti-plagiarism software (Shoda Ganga Project) for research papers publication and Ph.D. thesis submission.
- Promoting modern teaching aids to the PG-courses.
- Village adoption programs has been established to expose the students to the rural problems, planning and development.
- Efforts for establishment of Advance Research Centre at Belapu, Udupi District and budget proposal for Rs. 141.38 Crore as announced and foundation stone laid by the Honourable Chief Minister, Government of Karnataka.
- Strengthening P.G Centre at Chikka Aluvara, Kushalnagar by introducing several new P.G. Courses.
- Successful in geting CPEPA grant of Rs.5.04 crores from the UGC for research at Mangalore University.
- Obtained highest number of GIAN programmes to the P.G Departments in the Karnataka State.
- Starting of Vocational and diploma courses.
- Introducing Masters course Dissertation compulsory.
- Strengthening the Constituent Colleges of Mangalore University at Mangalore and Madikeri with UGC special grants and status of College with Potential for Excellence.
- Obtained a special grant of Rs.2.4 Crores for promoting Sports in the Mangalore University.
- Increasing the research opportunities to Ph.D. aspirants.
- Construction of International House and Lecture Class room complex.

- Surveying the university land and protecting the property from encroachment.

- Promoting research in the University by offering University Research Fellowships to meritorious students to pursue Ph.D. programme. Also non-stipendary students are awarded fellowship by the University.

- Hosting National and International seminars/Conferences/Workshops regularly to establish the visibility of Mangalore University in the National and International levels.

- Memorandum of Understanding with foreign Universities/Institutions.

Responsibilities

- Teaching Postgraduate classes leading to M.Sc. and M. Tech. degrees. Total thirty four years of teaching experience.

- Guiding research scholars for doctoral degrees (Ph.D.).

- Twenty Ph.D. degrees awarded. Seven students enrolled/registered for Ph.D. degree under my supervision.

- Worked in various Committees constituted by the University of Mysore.

- 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.

- Established Modern Sophisticated Research Labs at the University of Mysore, with grants under UPE and CPEPA programs.

- Established state of the art National Standard Laboratory for the Radio-Ecology research at Mangalore University.

Professional Affiliations and Board Memberships

- Governing Council Member of Indian Science Congress Association, India. (2017 - date)

- Member, Association of All-India Vice Chancellors.

- Chairman, Committee for Framing Regulations for Ph.D.and M.Phil Programs by the Government of Karnataka.
- Indian National Sciences Academy – Commitee Member for Crystallography Section. (2006 - 2015)

- Member, IUCr Commission on Inorganic and Mineral Structures. (2014 - date)

- Recognized as Ph.D., guide in the University of Mysore 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.

- **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)

- **CO-EDITOR in CHIEF**: Editorial Board Member, Journal: Materials Research Innovation, Publishers: Taylor and Francis, Publications, U.K. (Impact Factor : 1.8) – 2009 to 2013

- **EDITORIAL BOARD MEMBER**, Journal: Ceramics International, Elsevier Publications, Holland (Impact Factor: 1.75)

- **EDITORIAL BOARD MEMBER**, Journal: The Open Access Crystallography Journal, Bentham Publications, USA.

- **EDITORIAL BOARD MEMBER**, Journal of Minerals, Materials Characterization and Engineering, American Scientific Publishers, USA.

- **GUEST EDITOR**, Journal of Materials Science, Springer, USA, 2006-2008.

- **MEMBER, EDITORIAL BOARD** Journal of The Indian Academy of Sciences (from 1989 to 1994).

- Expert, Dept. of Science and Technology, Govt. of India, National Program on Nano- materials for Ferro-Fluid Flow, (2012 -)

- Consultant to the International Commission on Crystal Growth, a Body of the International Union of Crystallography, from 1999-2002.

- Founder General Secretary, International Solvothermal and Hydrothermal Association (ISHA), (2006 -)

- UGC Expert for SAP Programs, and Member of NAAC Committee.

- MEMBER, Scientific Program Committee, International Congress on

Crystallography, Florence, Italy, August 2005.

- Strengthened the PURSE laboratory at Mangalore University and made it Self – Sustainable.
- MEMBER, British Association for Crystal Growth, UK.
- MEMBER, International Panel on the Experimental Techniques of the Growth of *4f* Elements Compounds, Lisbon, Portugal, 1987.
- MEMBER, NEW YORK ACADEMY OF SCIENCES, USA.
- MEMBER, International Advisory Board on Crystal Growth.
- 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.
- Chairman, Member, NAAC Peer Team Committees.
- Nodal Officer, University Auditing Committee, University of Mysore
- Member, Core Committee for Choice Based Credit System, University of Mysore
- Member, Core Committee for VISION 2025, UNIVERSITY OF MYSORE.
- Member, Core Committee for Ph.D. Regulations of University of Mysore, Mysore
- Executive Council Member, Asian Crystallography Association. 2006 – 2010.
- IUCr commission on: Crystal Growth and Characterization of Materials, International Union of Crystallography, UK. 1999 – 2014.
- Member, IUCr Commision on Inorganic and Mineral Structures. (2014 -)
- Executive Council Member, *National Crystallography*, Council of Indian National Science Academy, India.
- UGC expert for Committee on Orientation Programmes and Refresher courses in India.
- 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.
- UGC Expert Committee Member on Programs for Academic Staff Colleges.
- Expert Member of the Vision University of Mysore 2025.
- Academic Council, University of Mysore, India (from 1998 to 2001)
- Visiting Faculty, Pondicherry University; Bharathidasan University; Bharathiar University; Bangalore University; Madurai Kamaraj University; Kerala Univ. etc.

Visits Abroad

- Visiting Professor Abroad: Japan, Korea, Singapore, USA, UK, Spain, Taiwan, Italy, Australia, Poland, Thailand, Malayasia, Germany, Russia, China, Holland, etc.
- Invited to several International Conferences and Seminars related to Materials Science, Crystal Growth and Hydrothermal Research, to deliver Plenary, Keynote and Invited Papers and Chaired Sessions.
- Delivered SPECIAL LECTURES in National and International Schools and Seminars on Materials Science, Crystal Growth held in different countries in the world.
- 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.
- Visited frequently several Universities and 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.

- Multimedia University, Kuala Lumpur, Malaysia, 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.
- 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.
- Institute of General and Inorganic Chemistry, Moscow,

Russia, 1978 to 1982.

- Lebedeev Institute of Physics, Moscow, Russia, 1978 to 1982
- ETH, Lausanne, Switzerland, Jul 1986.
- Torino Universidad de, Torino, Italy, Jun 1986. etc..,

General

- Present *h*-index of the University of Mysore is 68 with my individual contribution of about 24% (Prof.K. Byrappa's *h* index is 36).
- Out of TOP 68 papers contributing to the University of Mysore's *h*-index, TOP papers are my publications with highest number of citations.
- Total citations of Prof.K. Byrappa is around 5800.
- Delivered General Lectures and Radio Talks on: Mineral and Rock Formation in Nature, Crystal Growth, Mineral Synthesis, Earthquakes, Volcanoes, and Tsunamis.
- Environmental Education, Globalization of Higher Education, etc in South Indian Universities in Karnataka, Tamilnadu, Kerala, and Pondicherry.
- Actively participated in the Cultural Activities during my Ph.D. course days in the Moscow State University, Moscow, Russia.
- Delivers special lectures on Environmental Education, Globalization of Higher Education, etc., in South Indian Universities in Karnataka, Tamilnadu, Kerala, & Pondicherry
- 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 curriculum, but also in Science as a whole and tuning their attitude towards interdisciplinary nature of science.
- Actively participated in the International Red Cross Society Activities during the Higher Secondary School Days, and also passed the qualifying examination.
- Very Fluent in Russian Language.
- Working knowledge in Spanish, Japanese, French and German Languages.

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

Books/Special Editions

1. **K. Byrappa** *(India) and M. Yoshimura (Japan)*
   'HANDBOOK OF HYDROTHERMAL TECHNOLOGY' (Second Edition) A Technology for Crystal Growth and Materials Processing Publishers*: Elsevier, London, UK (2013).*
   3rd revised edition is under preparation.

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

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

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

5. **K. Byrappa** *(India)* 'HYDROTHERMAL GROWTH OF CRYSTALS' *Publishers: Elsevier Pergamon Press, Oxford, UK (1990)*

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

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

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

9. **K. Byrappa** *(India)* and T. Adschri *(Japan)* (Guest Editors) 'A NOVEL ROUTES OF SOLUTION PROCESSING OF ADVANCED MATERIALS' *Vol. 43, Issue 2, J. Materials Science, Springer, USA, (2008).*

10. **K.Byrappa** 'NOVEL SOLUTION PROCESSING TECHNIQUES' *Vol. 58, Issue 1-4, Progress in Crystal Growth and Characterization of Materials, UK, (2012).*

11. **K.Byrappa** (*India)*, Richard E. Riman *(USA)* and G. Dhanraj *(USA)* (Guest Editors) 'MATERIALS SYNTHESIS - NOVEL APPROACHES' *Vol. 14, Issue 1, Maney Publishers, UK, (2013).*
12. 'KUVEMPU PUNARMANANA': Book on Fine Arts' Chief Editors: A. Malagatti and **K. Byrappa**. Publishers: Mysore University Prasararanga, Mysore (2004).

Book Chapters

- **K. Byrappa**, K. Namratha and Nayan. M. Byrappa. Hydrothermal Technology Processing of Advanced Functional Materials, Kirk – Othmer Encylopedia of Chemical Technology, John Wiley & Sons, USA (2017) – In press.

- Chandrashekar B.N., Smitha A.S, Jagdesh. B.K, Namratha.K, Srikantaswamy .S. Kumara swamy. B.E, Sadashivani. K. **Byrappa**. **K**, Cheng.C., Functional Nanomaterials for Transparent Electrodes Smart Polymer Nanocomposites, Springer International Publishing AG, 2017.

- Behzad Shahmoradi and **K Byrappa** Fabrication, Charecterisation and Application of Metal oxide-doped zno Hybrid Nanomaterials,Springer Internationational Publishing Switzerland Book Nanoscience in Food and Agriculture 3 pp (1-29), 2016**.**

- **K. Byrappa,** K. Namratha and Shayan. M. Byrappa "Hydrothermal growth of crystals – design and processing" Hydrothermal growth – an overview, Handbook of Crystal Growth, 2nd Edition, P.Kutich, P. Rudolph and T. Nishinaga (Eds.)Elsevier Science Publishers, Vol.2a, Chapter 15, The Netherlands 2015.

- **K. Byrappa**, K. Namratha, S. M. Byrappa (2015) Hydrothermal Growth of Crystals—Design and Processing, In the Book: *Handbook of Crystal Growth*, Second Edition, 2, 535–575.

- **K. Byrappa**, K. Namratha and Shayan M. Byrappa (2014) Hydrothermal growth – an overview Vol.2a, Chapter 15. In: *Handbook of Crystal Growth*, 2nd Edition, Eds: P. Kutich, P. Rudolph and T. Nishinaga, Elsevier Science Publishers, The Netherlands.

- **K. Byrappa**, K. Namratha and S.M. Byrappa (2013) Hydrothermal growth – An overview, Vol.2a, Chapter 15. In: *Handbook of Crystal Growth*, 2nd Edition, Eds: P.Kutich, P. Rudolph and T. Nishinaga, Elsevier Science Publishers, Netherlands.

- B. Shahmoradi, **K. Byrappa**, Afshin Maleki (2013) Hydrothermally modification of metal oxide doped TiO2 nanomaterials, In: Handbook of Nanomaterials, Publishers: Nova Publishers, N.Y., and USA.

- K. Byrappa Hydrothermal growth of polyscale crystals, In: Springer Handbook of Crystal Growth, Eds: G. Dhanaraj, **K. Byrappa**, M. Dudley and V. Prasad, Publishers: Springer-Verlag, Germany.

- T. Adschiri and **K. Byrappa** (2009) Supercritical Hydrothermal Synthesis of Organic-Inorganic Hybrid Nanoparticles, In: *Nanohybridization of Organic-Inorganic Materials*, Eds: Atsushi Muramatsu, Publishers: Springer-Verlag, Germany, 217-250.

- **K. Byrappa** (2005) Hydrothermal processing of advanced materials, In: *Kirk-Othmer Encyclopedia of Chemical Technology* John Wiley, U.K.

- **K. Byrappa** (2004) Growth of Quartz crystals: ―*Bulk crystal Growth of Electronic, Optical and Optoelectronic materials*‖, Ed: Peter Capper, Publishers: John Wiley & Sons, Ltd. UK. Chapter 13, 387-404.

- **K. Byrappa**, M.S. Vijaya Kumar, B.V. Suresh Kumar, S. Ananda and K.M.L. Rai, (2003) Hydrothermal synthesis, electrical conductivity and catalysis reaction of Alumino-phosphate zeolites In: Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 311-317.

- **K. Byrappa**, Ramaningaiah and B. Basavalingu (2003) Crystal Growth of Nd: YVO4 using hydrothermal technique at different temperatures, In: Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 305-310.

- **K. Byrappa**, B. Nirmala, K.M.L. Rai and S. Ananda (2003) Crystal growth mechanism of rare earth vanadates under mild hydrothermal conditions,Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 298-304.

- **K. Byrappa**, A.K. Subramani, K.M.L. Rai, B. Basavalingu, S. Ananda and S. Srikantaswamy (2003) Hydrothermal impregnation of designer particulates on activated carbon, In: Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 291-297.

- S. Srikanta Swamy, M. Yoshimura, **K. Byrappa**, B. Basavalingu and A.K. Subramani (2003) Stability and Behaviour of carbon nanotube under hydrothermal conditions In: Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 285-290.

- **K. Byrappa** (2003) Hydrothermal growth of crystals, In: Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 271-284.

- **K. Byrappa**, J.R. Paramesha, S. Ananda and K.M. Lokanatha Rai (2003) Crystal growth and reaction mechanism of rare earth and alkali rare earth phosphates, In : Crystal growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapper and R. Fornari, Allied Publishers, New Delhi, India, pp. 224-235.

- **K. Byrappa**, B. Nirmala, K.M. Lokanatha Rai and M. Yoshimura (2003) Crystal Growth, Size and Morphology Control of Nd: RVO4 under Hydrothermal Conditions, In: *Crystal Growth Technology*, Eds. **K. Byrappa** and T. Ohachi, pp. 335-364 William Andrew/Springer, Germany.
- B. Basavalingu, **K. Byrappa** and M. Yoshimura (2002) An Experimental study of High Temperature and High Pressure synthesis of sp3 bonded carbon In: Advanced in High Pressure Science and Technology; Eds: A.K. Bandyopadhyay, D. Varandani and Krishan Lal, Proc. 2nd International Pressure Metrology Workshop and International Conference on High Pressure Science and Technology, Published by National Physical Laboratory, New Delhi, pp. 417-421.

- **K. Byrappa** (2001) Hydrothermal Growth In: Encyclopedia of Materials Science and Technology, Ed: O. Mahajan, USA, Elsevier Science Publisher, UK pp. 3982-3989.

- **K. Byrappa** (2001) Hydrothermal Growth of Bulk Crystals, In: Crystal Growth of Materials for Energy Production and Energy-saving Applications Eds. R. Fornari and L. Sorba (Italy), Edixioni ETS. pp. 57-65.

- **K. Byrappa** (2001)Solution Growth In: Crystal Growth of Materials for Energy Production and Energy-saving Applications, Eds. R. Fornari and L. Sorba (Italy), Edixioni ETS. pp. 51-57.

- **K. Byrappa** Hydrothermal Growth of Crystals, In: Handbook of Crystal Growth, Vol.2, Ed. Dtj Hurle (North- Holland Publishers,) (1994) l.2, 441-539.

- **K. Byrappa** and G.S. Gopalakrishna (1991) Morphological aspects of hydrothermally grown superionic phosphates, In: ―Current Trends in Crystal Growth and Characterization‖ Ed: **K. Byrappa** (MIT Publishers) p. 267.

- **K. Byrappa**, R. Rodriguez-Clemente, Salvador Gali and A.B. Kulkarni (1991) Hydrothermal Growth and properties of $Na_2Ti_3O_7$ Crystals, In: Current Trends in Crystal Growth and Characterization‖, Ed: **K. Byrappa** (MIT Publishers) p. 285.

- **K. Byrappa** and S. Srikanta Swamy (1991) Recent Progress in the Growth and Characterization of Aluminium Orthophosphate, ***Recent Progress in the Hydrothermal Growth of Crystals***, Ed: **K. Byrappa,** Pergamon Press, Oxford, UK, pp 199-254.

- **K. Byrappa** (1990) Growth and Characterization of some New Superionic Phosphates (REVEIW) In: ―Transaction of the Materials Research Society of Japan', Ed: Shigeyuki Somiya (Japan) (Elsevier Applied Science Publishers, U.K) pp. 433-456.

- **K. Byrappa**, N.B. Desai, A.B. Kulkarni and S. Srikanta Swamy (1987) Synthesis of a New Proton Conductor-$NH_4Zr_2V_3O_{12}$, Physics of Materials, Ed: M. Yussouff (World Scientific Publishers), Singapore, pp. 217-221.

- **K. Byrappa,** G.S. Gopalakrishna, D.S. Mahadevappa and J. Shashidhara Prasad (1987) Thermal Expansion Study of $NaNi_2ZrP_3O_{12}$, Physics of Materials, Ed: M. Yussouff (World Scientific Publishers), Singapore, pp.222-227.

Representation on National and International Events Committees

❖ As a Convenor

- 38^{th} National Seminar on Crystallography at University of Mysore, Mysore, India, 11-13, Feb. 2009.
- 4 numbers of Orientation Programs for Post Graduate and Under Graduate Teaching Staff, on recent developments in Teaching Higher Education, during 2004-2006.
- 3 numbers of UGC Sponsored Workshop for College Principals, on Higher Education System in India, during 2004 to 2006.

- Stress Management Workshop for Teaching Staff, University of Mysore, Mysore, July 2005.

- Soft Skill Development Workshop for Research Students of University of Mysore, Mysore, June 2005.

- DST – Workshop, January 27 - 30, 2005, University of Mysore, Mysore.
- 6th International Conference on Solvothermal Reactions (ICSTR-6), University of Mysore, Mysore, India, August 24-28, 2004.

- Indo-Japan Workshop on Solvothermal Reactions, August 23, 2004, University of Mysore, Mysore, India

- International School on Crystal Growth of Technologically Important Electronic Materials (ISCGTIEM), January 20-28, 2003, University of Mysore, 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, University of Mysore, Mysore, India.

- International Seminar on Crystal Growth, August 14-16, 1989, Universty of Mysore, India.

❖ Chair, Symposia in International Conferences/ Congresses

- Co-Chair, Symposium on Nano (porous) Materials and their Applications. The 15th International Conference on Advanced Materials. IUMRS –ICAM 2017, Aug. 27 – Sept. 01, 2017, Kyoto, Japan.

- Chair, Symposium on Joint IUMRS-ICMAT 2017, Suntec city, Singapore, June 18-23, 2017.

- Chair, Symposium on Joint IUMRS-ICMAT 2015 & IMURS-ICA 2015, Suntec city, Singapore Jun. 28 to Jul. 03, 2015.

- Chair, Symposium on Nanomaterials Synthesis : Solution Routes, IUMRS-ICA 2013, Dec. 16 to 20, 2013, Bangalore, India

- Chair, Symposium on Industrial Crystallization, 17th International Conference on Crystal Growth (ICCG-17), Aug. 11 to 17, 2013, Warsaw, Poland.

- 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.

- Secretary, 3rd International Hydrothermal and Solvothermal Association Conference (ISHA-2013), Jan 13 to 17, 2013, Austin, USA.

- Chair, Symposium on Nanotechnology for Bio/Medical Materials IUMRS-ICA-2011, 12th International Conference in Asia, Sept. 19 to 22, 2011, Taipei, Taiwan.
- 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.

- Secretary, 2nd International Conference of the International Solvothermal and Hydrothermal Association, Jul. 26 to 28, 2011, Beijing, China.

- Chair, Symposium on Novel Routes of Solution Processing, Jun. 28 to Jul. 03, 2009, Singapore.

- 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

- Chair, Symposium on Materials Synthesis, Novel Approaches, In: IUMRS-2007, Bangalore, India.

- Chair, Symposium on Protein Crystallization, In: Asian Crystallography Conference, Nov. 2006, Tsukuba, Japan.

- Scientific Program Committee Member, IUCR – XX and General Assembly, Aug. 2005, Florence, Italy.

Major Projects Undertaken (Completed/Ongoing)

Completed

Sl.No	Name of the Project	Funded by	Year	Amount Rs. in lakhs
1.	Synthesis and Characterization of Rare Earth Phosphate	University Grants Commission -Minor Research Project	1982-1983	0.50
2.	Synthesis and Characterization of Berlinite	Council of Scientific & Industrial Research (CSIR)	1985-1988	3.50
3.	Synthesis and Characterization of new group of Rare Earth Phosphate Superionic Conductors	University Grants Commission	1986-1989	4.70
4.	Synthesis and Characterization of new group of fast ionic Conductors	Defence Research and Development Organisation (DRDO)	1988-1990	8.00

5.	Growth and Characterization of KTP	Board of Research in Nuclear Sciences, Department of Atomic Energy(BRNS- DAE)	1991-1994	12.00
6.	Growth and Characterization a new group of Fast Ionic Conductors	Defence Research and Development Organisation (DRDO)	1991-1994	14.00
7.	Growth and Characterization of Laser Crystals	Department of Atomic Energy (DAE)	1995-2000	16.70
8.	Hydrothermal Carbon Polymorphs	Research Institute for Solvothermal Technology (RIST), Japan	1998-2001	804.00 **(1.2 Million US Dollars)**
9.	Synthesis and Characterization of Hydroxyapatite Bioceramics (as Co-Investigator with Prof.Richard E. Riman)	National Institute of Health (USA) and Johnson and Johnson, USA	1999 - 2001	332.50 **(0.5 Million US $)**
10.	Hydrothermal Growth of Zoisite	Manoj.R Jain Trust	2003-2004	2.10
11.	Synthesis and processing of Ecomaterials for the degradation of Toxic organic wastes and effluent treatment	University Grants Commission	2002-2005	10.00
12.	Carbon Polymorphs	Department of Science and Technology (DST)	2002-2006	28.00
13.	Preparation of nanoscale crystals of Rare Earth Phosphates	General Electric, USA (G.E) Project	2006-2007	10.00
14.	Growth and Characterization of Rare Earth Vanadates	Department of Science and Technology (DST)	2002-2006	26.00
15.	Hydrothermal preparation of Rutile, Anatase and Zincite, nanomineral Particles for Photocatalytic Applications	University Grants Commission (UGC-MRP)	2010-2013	15.60
16.	Soil Mineralogy and Physico-Chemical Characteristics of western Ghats soils	Institution of Excellence (IOE)	2010-2013	5.00
17.	Synthesis Characterization of Polyscale crystals of Diamond, Diamond – like structure and Graphite	Department of Science and Technology (DST)	2013-2016	32.00

Ongoing

Sl.No	Name of the Project	Funded by	Year	Amount Rs. in lakhs
1.	University with Potential for Excellence (UPE)	University Grants Commission-	2012-2017	500.00 **(US Dollars 7.8**

		Project		**Million)**
2.	Processing , Characterization and Application of Advanced Functional Materials	Under University with Potential for Excellence (UPE) UGC-Project	2012-2017	100.00
3.	Processing, Characterization and Application of Advanced Functional Nanomaterials	Centre with Potential for Excellence in a Particular Area(CPEPA) UGC-Project	2012-2017	450.00 **(US Dollars 0.7 Million)**

Patents/ Technology transfer/Product development

- **Patent is being filed for Registration in India: A single step method to demonstrate pathogenicity of *Streptococcus mutans* using *Bombyx mori* silkworm model system:** M. Likhith Gowda, P. Shubha, K. Namratha, **K. Byrappa** and H. B. Manjunatha – A collaborative work between University of Mysore and Mangalore University.

- The M/s Johnson & Johnson Health Care Systems Inc., New Jersey, USA sponsored project at the Rutgers University, New Jersey, USA, to investigate the possible reasons for the growth of long needles and to work out a mechanism to obtain equi-axial shaped crystals of hydroxyapatite. The results of this work carried out (entire technology) have been transferred to M/s Johnson & Johnson Health Care Systems Inc., New Jersey, USA.

List of Publications (accepted/communicated)

1. HN Girish, P Madhusudan, CP Sajan, BV Suresh Kumar, and **K Byrappa**,
Supercritical hydrothermal synthesis of polycrystalline gadolinium aluminum perovskite materials (GdAlO3, GAP)
AIMS Material Science, 4(3): 540-550, 2017.

2. Shilpa T, Sajan D. Georgea, Aseefhali Bankapura, Santhosh Chidangila, Aditya K. Dharmadhikari, Deepak Mathur, Madan Kumar S, **Byrappa K**, Abdul Ajees Abdul Salam **(Impact factor 2.23)**
Effect of nucleants in photothermally assisted crystallization
Photochemical & Photobiological Sciences (accepted)

3. Shantini Keerthana D., Namratha K., **Byrappa K**.,
Green Hydrothermal Synthesis of Magnetite Nanoparticles and their Free Radical Scavenging Property
BOAJ Physics, 2 (1) (2017), 1-8

4. Rajitha Sadashiva , Damodara Naral , Jyothi Kudva, S. Madan Kumar, **Byrappa K** , Mohammed Shafeeulla R, Manjunatha Kumsi **(Impact Factor 1.7)**
Synthesis, characterization, single crystal X-ray, in vitro and in silico biological evaluation of a new series of thiazole nucleus integrated with pyrazoline scaffolds,
Journal of Molecular Structure. (communicated)

5. Subbulakshmi N Karanth, Badiadka Narayana, Balladka Kunhanna Sarojini Madan Kumar Shankar, **Kullaiah Byrappa (Impact Factor 1.7)**
Crystal structure, Hirshfeld surfaces and Biological studies of 4, 5-dihydro-1, 3, 4-oxadiazole-2-thiones,
Journal of Molecular Structure. (communicated)

6. Vinutha P R, Jayaram V, Narayana Y,Kali Prasad C. S., **K Byrappa**, Madan S, Suresh Kumar M R,
Synthesis, Single Crystal Structure and Spectroscopic Aspects of Chalcone 2(2E)-1-(4'-bromobiphenyl-4-yl)-3-(2,3-dimethoxybenzaldhyde)prop-2-ene-1-one **Chemical Data Communications. (communicated)**

7. Vinutha P R, Jayarama A, Kaliprasad C S, Narayana Y, **Byrappa K**, Madan Kumar S and Suresh Kumar M R **(Impact Factor 0.63)**
Synthesis, optical, Crystal Structure Studies and spectral Characterization of Novel crystal (2E)-1-(4'-bromobiphenyl-4-yl)-3-(2,3-dichlorophenyl)-3-hydroxypropan-1-one
Molecular crystals and liquid crystals. (communicated)

8. Vinutha P R, Jayarama A, Kaliprasad C S, Narayana Y, **Byrappa K**, Madan Kumar S and Suresh Kumar M R **(Impact Factor 0.77)**
Synthesis, spectral characterization, non-linear optical and single crystal X-ray diffraction studies of 1-(4'-bromo-[1,1'-biphenyl]-4-yl)-3-(2,4-dichlorophenyl)hydroxy-1-propane,
Optik. (communicated)

9. Abdul Ajees, Manjunatha B S, Shubhalaxmi N, Madan Kumar S, **K Byrappa**, Subramanya Bhat K.,

Structural analysis of chalcone derivative: 2-{4-[(2E)-3-(4-fluorophenyl) prop-2-enoyl]phenoxy}acetic acid,
Chemical Data Communications. (accepted)

10. Vinutha V. Salian, B. Narayana, B. K. Sarojini, Sujanya M Jesus , N. Mahesh**, K. Byrappa**, S. Madan Kumar **(Impact Factor 0.561)**
Synthesis, Crystal Structures and Hirshfeld surfaces of chalcone derivatives: (2*E*)-1-(4-2, 4-Dichlorophenyl)-3-[4-(propan-2-yl)phenyl]prop-2-en-1-one and (2*E*)-1-(4-Fluorophenyl)-3-[4-(propan-2-yl) phenyl] prop-2-en-1-one,
Crystallography Reports. (communicated)

11. Manjunath N. K., Nabil Najib, A. A., Nagendra, P., Siddaraju B. P, Swamy M. T., **Byrappa K**.., Madan Kumar S.
4-chloro-2-nitro-1-(2-phenylethyl)benzene
International Union of Crystallography (IUCr) Data. (accepted)

12. Debajani basumatary, Madan Kumar S, **Byrappa K**,Kandarpa Saikia, Ajaz Ahmad Dar, Vedant Borah, Nabajyoti Dhing, Namratha KeerthiRaj, Ram Ashray Lal **(Impact Factor 1.085)**
Synthesis, Spectral, Crystal structure, Hirshfeld surfaces, antimicrobial, toxicity and in silico docking studies of trans-Dichlorotetrakis(pyridine-N)Ruthenium(II),
Journal of Chemical Sciences. (communicated)

13. P. Nikil, Boja Poojary, S. Madan Kumar**, K. Byrappa (Impact Factor 0.561)**
Synthesis, Characterization, Crystal Structure and Hirshfeld Surface Analysis of ethyl 2-(4-bromophenyl)-1-cyclohexyl-1*H*-benzo[*d*]imidazole-5-carboxylate
Crystallography Reports. (communicated)

14. S. Shashidhar Bharadwaj, Boja Poojary, Madan Kumar, **K. Byrappa**, Govinahalli Shivashankara Nagananda, B. L Dhananjaya, Amajala Krishna Chaitanya, Kunal Zaveri, Nagendra Sastry Yarla, Yallappa Shiralgi, Avinash K. Kudva, **(Impact Factor 3.277)**
Design, synthesis and pharmacological studies of some new quinoline Schiff bases and 2,5-disubstituted-[1,3,4])-oxadiazoles,
New Journal of Chemistry. (communicated)

15. Sushma, Shubha P., **Byrappa K**., Mohan Kumar T. K., Madan kumar S., Vicas C.S., Lokanatha Rai, K. M. Ananda S. **(Impact Factor 3.613)**
Synthesis of 2, 5- disubstituted 1,3,4-Oxadiazoles and assessment of their in vitro antibacterial and in vivo larvicidal efficiency with comprehensive toxicological studies,
Arabian Journal of Chemistry. (communicated)

16. Mani Udayakumar, Kothandapani Jagatheeswaran, Subramaniapillai Selva Ganesan, Natarajan S. Venkataramanan, Shankar Madan Kumar, **Kullaiah Byrappa** , Subbiah Thamotharan **(Impact factor 1.78)**
Investigation of 9-(2-hydroxy-4,4-dimethyl-6-oxocyclohex-1-en- 1-yl)-3,3-dimethyl-2,3,4,9-tetrahydro-1H-xanthen-1-one: Crystal structure, AIM and NBO analysis
Journal of Molecular Structure, 1133 (2017) 510-518.

17. Vinutha V Salian , Badiadka Narayana , Balladka K Sarojini , Madan S Kumar ,Govinahalli S Nagananda , **Kullaiah Byrappa** , Avinash K Kudva **(Impact factor 2.65)**
Spectroscopic, single crystal X-ray, Hirshfeld, in vitro and in silico biological evaluation of a new series of potent thiazole nucleus integrated with pyrazoline scaffolds.
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 174 (2017) 254–271

18. Lellala Kashinath, Keerthiraj Namratha, Shivanna Srikantaswamy, Ajayan Vinu and **Kullaiah Byrappa (Impact factor 3.27)**
Microwave treated sol–gel synthesis and characterization of hybrid ZnS–RGO composites for efficient photodegradation of dyes
New J. Chem., 2017, 41, 1723-1735.

19. Maryam Gilandoust, K. B. Harsha, S. Madan Kumar, K. S. Rakesh, N. K. Lokanath, **K. Byrappa,** K. S. Rangappa
5-Bromo-1,2,4-triazolo[1,5-a]pyrimidine
International Union of Crystallography (IUCr) Data (2016). 1, x161944**.**

20. Maryam Gilandoust, K. B. Harsha, S. Madan Kumar, K. S. Rakesh, N. K. Lokanath, **K. Byrappa**, K. S. Rangappa
5-(2-Ethoxy-4-fluorophenyl)-1,2,4-triazolo[1,5-a]- pyrimidine
International Union of Crystallography (IUCr) Data (2016). 1, x161770**.**

21. S. Madan Kumar, N. Manju, Balakrishna Kalluraya, **K. Byrappa**, M. M. M. Abdoh
Ethyl (naphthalen-2-yloxy)acetate
International Union of Crystallography (IUCr) Data (2016). 1, x161594**.**

22. H. S. Yeshwanthkumar, P. Nagendra, B. P. Siddaraju, K. C. Chaluvaraju, **K. Byrappa**, N. K. Lokanath, S. Madan Kumar
4-Chloro-1-[2-(2-chlorophenyl)ethyl]-2-nitrobenzene
International Union of Crystallography (IUCr) Data (2016). 1, x161204**.**

23. S. Madan Kumar, N. Manju, Asma, Balakrishna Kalluraya, **K. Byrappa,** Ismail Warad
5-(2,4-Dichlorophenoxy)-3-methyl-1-phenyl-1H-pyrazole-4- carbaldehyde
International Union of Crystallography (IUCr) Data (2016). 1, x161111**.**

24. S. Madan Kumar, D. J. Madhu Kumar, H. P. Shivakumar, D. Jagadeesha Prasad, **K. Byrappa,** M. M. M. Abdoh
2-[(5-Amino-1,3,4-thiadiazol-2-yl)sulfanyl]-N-(2,4,5-tri- chlorophenyl)acetamide
International Union of Crystallography (IUCr) Data (2016). 1, x161123**.**

25. S. Madan Kumar, D. Manasa, Vasantha Kumar, Boja Poojary, **K. Byrappa**, M. M. M. Abdoh
Ethyl 1-benzyl-2-(3-chlorophenyl)-1H-benzimidazole-5- carboxylate
International Union of Crystallography (IUCr) Data (2016). 1, x161068**.**

26. S. Madan Kumar, D. J. Madhu Kumar, K. S. Harish, Prasad D. Jagadeesha, **K.**

Byrappa, M. M. M. Abdoh
2-[(5-Amino-1,3,4-thiadiazol-2-yl)sulfanyl]-N-(4-chlorophen- yl)acetamide
International Union of Crystallography (IUCr) Data (2016). 1, x161139**.**

27. S. Madan Kumar, Kumar Vasantha, Boja Poojary, **K. Byrappa,** Ismail Warad
Ethyl 2-(4-cyanophenyl)-1-(4-fluorobenzyl)-1H- benzo[d]imidazole-5-carboxylate
International Union of Crystallography (IUCr) Data (2016). 1, x161124**.**

28. S. Shashidhar Bharadwaj, Karthik Kumara, Boja Poojary, H. S. Yathirajan, **K. Byrappa**, N. K. Lokanath, S. Madan Kumar
Ethyl 2-(3,5-difluorophenyl)quinoline-4-carboxylate: a second triclinic polymorph
International Union of Crystallography (IUCr) Data (2016). 1, x160739**.**

29. S. N. Sheshadri, P. Nagendra, B. P. Siddaraju, **K. Byrappa**, N. K. Lokanath, S. Madan Kumar
Tramadolium 2-chlorobenzoate
International Union of Crystallography (IUCr) Data (2016). 1, x160014**.**

30. K M Sandeep, Shreesha Bhat, S M Dharmaprakash and **K Byrappa (Impact factor 2.772)**
Influence of Ga doping ratio on the saturable absorption mechanism in Ga doped ZnO thin solid films processed by sol–gel spin coating technique
J. Phys. D: Appl. Phys. 50, 095105 (8pp), 2017.

31. Abdo Hezam, K.Namratha, Q.A. Drmosh, Z.H. Yamani, **K.Byrappa (Impact factor 2.758)**
Synthesis of heterostructured Bi2O3–CeO2–ZnO photocatalyst with enhanced sunlight photocatalytic activity
Ceramics International, Vol. 43,Issue 6, 5292-5301, 2017.

32. K. Namratha, **K. Byrappa**, B.K. Deepthi **(Impact factor 3.5)**
Photocatalytic Decolorization of Brilliant Blue Dye Using Zinc Oxide in the Presence of Sunlight
IJRR International Journal of Research and Review,
E-ISSN: 2349-9788; P-ISSN: 2454-2237, 2016.

33. Mahesh, S.L.Belagali, S. Madan Kumar, **K. Byrappa**
Synthesis, characterization and crystal structure of 4-[(6-ethoxy benzothiazol-2-yl) diazenyl] phenyl 2-(2, 3-dihydro-1H-inden-2-yl) acetate
Chemical Data Collections 7-8: 1-7, 2017.

34. B. Shameer Ahmed , Anil G. Rao , B M Sankarshan , C.S. Vicas , K. Namratha , T.K. Umesh , R. Somashekar, **K. Byrappa.**
Evaluation of Gold, Silver and Silver–Gold (Bimetallic) Nanoparticles as Radiosensitizers for Radiation Therapy in Cancer Treatment
Cancer and Oncology Research 4(3): 42-51, 2016.

35. P.Shubha, K.Namratha, and **K.Byrappa**
Graphene oxide – a promising material for antimicrobial surface against nosocomial pathogens

Material Research Innovations, pp. (1-6), 2016.

36. Chitharajan Rai, **K.Byrappa**, and S.M. Dharmaprakash **(Impact factor 2.209)**
Crystal growth and dielectric, mechanical, electrical and ferroelectric characterization of n-bromo succinimide doped triglycine sulphate crystals
Physica B Condensed Matter 406(17), 3308-3312, 2011.

37. K.Jagadesh, B.N.Chandrshekar, **K.Byrappa**, K.S.Rangappa and S. Srikantaswamy
Simultaneous Removal of Dye and Heavy Metals in Single Step Reaction using PVA/MWCNT Composites
Anal. Methods, 8, 2408-2412, 2016**.**

38. L. Kashinath, K. Namratha. K.Sudhakar**,** and **K. Byrappa**,
Hydrothermal synthesis and characterization of hybrid Al/ZnO-GO composite for significant photodegrdation of dyes
AIP Conference Proceedings 1728, 1, id.020627, 2016

39. P. Shubha, K. Namratha, C. S. Vicas, **K. Byrappa**, B. M. Gurupadaiah, N. G. Rashmi, C. G. Shinde, **(Impact factor 0.8)**
Formulation and Evaluation of Slow Releasing Mouth Dissolving Films From Emblica Officinalis Fruit for Prevention of Dental Caries,
Journal of Chemical and Pharmaceutical Research, 7 (7) 950-960, 2015.

40. L.Kashinatha, K.Namratha, and **K.Byrappa (Impact factor: 3.01)**
Sol-Gel Assisted Hydrothermal Synthesis and Characterization of Hybrid ZnS-Go Nanocomposite for Significantly Efficient Photodegradation of Dyes
Journal of Alloys and Compounds, 1-11, (2017), 695, 799-809.

41. Mina Zare, K.Namratha, **K.Byrappa (Impact factor 3.368)**
Green synthesis of ZnO nanoparticles using surfactant assisted solvothermal method and their biocompatibility
Journal of Colloid and Interface Science **(Communicated)**

42. Mina Zare, K.Namratha, **K.Byrappa (Impact factor 2.83)**
Biocompatibility Assessment of Hydrothermal Green synthesised ZnO Nanoparticles Modified by Thymus vulgaris
Industrial Crops and Products **(Communicated)**

43. L. Kashinath, K. Namratha and **K. Byrappa**, **(Impact factor 3.6)**
Ultrasonication Assisted Mild Solvothermal Synthesis and Morphology Study of Few-Layered Graphene by Colloidal Suspensions of Pristine Graphene Oxide
Microporous and Mesoporous of Materials, 226, 15 May 2016, 522–529.

44. P. Shubha, K. Namratha**,** C. S. Vicas, **K. Byrappa**, Bharath Kumar, T.sirisha, B.M. Gurupaddya
Orodispersible films of punicalagin from Pomegranate peel-A novel drug delivery system for dental caries prevention.
Materials Focus (American Scientific Publishers) (2016), 5, 1, 24-30.

45. K. Namratha, **K. Byrappa**, S. Byrappa, P.Venkateswarlu, D. Rajasekhar and B.K. Deepthi **(Impact factor 2.69)**

Hydrothermal fabrication of couple doped organic assisted advanced ZnO nanomaterial for solar driven virtual photocatalysis
Journal of Envirnomental Sciences (Elsevier) (2015), 34, 248-255**.**

46. P. Shubha, K. Namratha, CS Vicas, S. Ganesh, **K. Byrappa,**
Emblica officinalis aqueous extracts –A natural disinfectant against Candida albicanscolonies on Heat cure denture base acrylic resin.
Material Focus, Vol 5.pp.1-7, 2016.

47. Narayana U Kudva N, C.S. Vikas, V. Srinivasa Murthy, Sumana Y.Kotian, **K. Byrappa**, K.M. Lokanatha Rai (Impact factor 1.310)
Synthesis and Biological Studies of 5- {[(1H-Benzo[D] Imidazol-2Y]Thio] Methyle}-3-Aryl Isothiazole derivates.
Journal of Chemical, Biological and Physical Sciences 6(3):861-868, 2016.

48. R. Madhu Kumar, B. Lkshmeesha Rao, S. Asha, B. Narayana, **K. Byrappa**, Youjiang Wang, Donggang Yao and Y. Sangappa **(Impact factor 1.46)**
Gamma radiation assisted biosynthesis of silver nanoparticles and their characterization
Adv. Mater. Lett. 6(12), 1088-1093, 2015.

49. P.S.Manjula, B.K.Sarojini, B.Narayan, **K.Byrappa** and S.Madan 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.

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

51. Prakash S. Nayak, Badiadka Narayana, Jennifer Fernandes, Balladka K. Sarojini, Sana Sheik, Kenkere S. Shashidhara, Konambi R. Chandrashekhar and **Kullaiah Byrappa (Impact factor 0.974)**
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)**

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

53. 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**.** (2016), 452, 111-116.

54. 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 supercritical condition,
***Journal of Nanomaterials*,** (2015) Article ID 381275, 1-6.

55. 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, (2015), 357.pp. 1849-1856.

56. C.S.Vicas, K.Namratha, **K.Byrappa,** H.S.Yathirajan, **(Impact factor 1.3)**
Preclinical assessment of Zinc ferrite nanoparticles synthesized using D-Glucose by hydrothermal method
Journal of Chemical, Biological, and Physcial sciences,(2015), 6(1).105-116.

57. 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**.**

58. L. Kashinath, K. Namratha and **K. Byrappa**, **(Impact factor 3.6)**
Ultrasonication Assisted Mild Solvothermal Synthesis and Morphology Study of Few-Layered Graphene by Colloidal Suspensions of Pristine Graphene Oxide
Microporous and Mesoporous of Materails Volume 226, 15, 2016, 522–529.

59. 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) 1114-1124**.**

60. 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) 950-960**.**

61. P. Shubha, K. Namratha, C. S. Vicas, **K. Byrappa**, Bharath Kumar, T.sirisha, B.M. Gurupaddya
Orodispersible films of punicalagin from Pomegranate peel-A novel drug delivery system for dental caries prevention.
Materials Focus (American Scientific Publishers) ISSN: 2169-429X (Print) EISSN: 2169-4303 (Online) 08/2015; 4(5).

62. Mahadevaiah, Thejus Urs. G, **K. Byrappa** and R. Somashekar,
Microstructural Parameters of Bivoltine Silk films using X-Ray diffraction studies,
Indian Journal of Advances in Chemical Science 2,pp (3-5),2014.

63. P.G. Smitha, **K. Byrappa,** and C.Ranganathaiaha, **(Impact factor 0.640)**
Mineralogy of agricultural soil of selected regions of South Western Karnataka, Peninsular India,

Journal of Environmental Biology, ISSN: 0254-8704 (Print) CODEN : JEBIDP ISSN: 2394-0379 (2015) (Online)

64. Mahadevaiah, Thejus Urs. G, **K. Byrappa** and R. Somashekar,
Effects of Microwave Radiations on the Re-crystallization and Microstructural Properties of Bivoltine Silk Fibroin Films,
Procedia Engineering 141:53-58, 2016**.**

65. Abdo Hezam, K. Namratha**, K. Byrappa**, **(Impact factor 6.626)**
Hydrothermal Synthesis of High Crystalline TiO2 Nanotubes without Calcination and Study the Surfactant Influence on the Morphology of the formed Nanotubes,
J.Materials Chemistry **(2015) (Submitted).**

66. Abdo Hezam, K. Namratha, **K. Byrappa**, **(Impact factor 2.63)**
A Review on TiO_2-based Nanotubes Synthesis via Hydrothermal Method: Formation Mechanism and Their Applications in Renewable Hydrogen Production, Storage and Fuel cell**.**
Mechanics of Materials **(2015) (Communicated).**

67. S.D. Keerthana, K. Namratha, **K. Byrappa**, H.S. Yathirajan, **(Impact factor 3.44)**
Bio- inspired synthesis of magnetite using pepper extract under hydrothermal conditions and its antioxidant property,
Journal of Inorganic Biochemistry **(2015) (Communicated)**

68. S.D. Keerthana, K. Namratha, **K. Byrappa,** H.S. Yathirajan,
Neem extract assisted biosynthesis of magnetite under hydrothermal conditions,
Green Science and Technology **(2015) (Communicated)**

69. Manpreet Kaur, J.P. Jasinski, H.S. Yathirajan, T.S. Yamuna and **K. Byrappa,** Crystal structure of N-(3-benzoyl-4,5,6,7-tetrahydro-1-benzothiophen-2-yl)benzamide,
Acta Cryst. E70**,** (2014) o951-o952**.**

70. R Somashekar, D. Mahadevaiah, Thejas Urs, and **K. Byrappa**, **(Impact factor 1.749)**
Preparation and Characterization of Mulbery Silk Films,
Metallurgical and Materials Transactions **(2015) (Submitted)**

71. L. Kashinath, K. Namratha and **K. Byrappa**, **(Impact factor 3.782)**
Microporous and Mesoporus Synthesis, Characterization of Colloidal Dispersions of highly reduced Graphene sheets in Organic Solvents by mild ultrasonication and solvothermal process,
Journal of Colloid and Inteface Sciences **(2015) (Communicated)**

72. Abdo Hezam, K. Namratha and **K. Byrappa**,
Surfactants assisted Solvothermal synthesis of ZnO nanostructures,
Journal of Materials Chemistry **(2015) (communicated)**

73. R. Somashekar, D. Mahadevaiah, Thejas Urs, and **K Byrappa, (Impact factor 1.749)**
Preparation and Characterization of Mulbery Silk Films,
Metallurgical and Materials Transactions **(2015) (Submitted)**

74. Manpreet Kaur, H.S. Yathirajan, **K. Byrappa**, G.Thomas, E. Hosten and R. Betz, **(Impact factor 0.1)**
Desvenlafaxinium 3,5-dinitrobenzoate 3,5-dinitrobenzoic acid monohydrate,
Z. KRIST - NCS. **(2014),** 229, 488-490.

75. D. S. Keerthana, K.Namratha, **K. Byrappa**, and H.S. Yathirajan, **(Impact factor 1.9)**
Facile one-step fabrication of magnetite particles under mild hydrothermal conditions,
Journal of Magnetism and Magentic Materials (2015) 378, 551-557

76. G. Thejas Urs, H.T. Ananda, M.B. Nanda Prakash, **K. Byrappa** and R. Somashekar,
Crystal and molecular structure of muga wild silk fibres based on {Ala-Gly]n sequence using LALS technique,
Indian Journal of Fibre and Textile Research (2015) 40, 131-136**.**

77. P. Sharma, K.N. Subbulakshmi, B. Narayana, **K. Byrappa** and R. Kant,
Crystal structure of 2- methyl-4-[(thiophen-2-yl)methylidene]-1,3-oxazol-5(4H)-one,
Acta Cryst. **(2015)** E71, o123 – o124**.**

78. Manpreet Kaur, J.P. Jasinski, B.J. Anderson, H.S. Yathirajan, **K. Byrappa**, **(Impact factor 0.572)**
Synthesis, Crystal Structures and DFT Calculations of Two Schiff Base Derivatives of (2-Amino-5-ethyl- thiophen-3-yl)-(2-chloro-phenyl)-methanone,
J Chem Crystallogr (2015), 45 (4), 193-201.

79. T. Pasang, K. Namratha, P. Guagliardo, K. Byrappa, C. Ranganathaiah, S Samarin and J F Williams, **(Impact factor 0.96)**
Single and couple doping ZnO nanocrystals characterized by positron techniques,
Mater. Res. Express. (2015) 2, 04.

80. H. N. Girish, M. S. Vijaya Kumar, **K. Byrappa** and B. Basavalingu, **(Impact factor 1.7)**
Hydrothermal synthesis of some of lanthanide aluminium perovskites – LnAlO3 (Ln5La, Sm and Gd),
Materials Research Innovations (2015) 19, 270-274**.**

81. Manpreet Kaur, J.P. Jasinski, H.S. Yathirajan, G. Christopher and **K. Byrappa**,
Crystal structure of 3-Benzoyl-2-[(5-bromo-2-hydroxy-3-methoxybenzylidene)amino]-4, 5, 6, 7-tetrahydrobenzo[*b*] thiophene,
Acta Cryst. (2015) E71, 176–179.

82. B.S. Supriya, P.Nagaraju, and. **K. Byrappa** (**Impact Factor 0.5**)
Hydrothermal synthesis and characterization of carbon spheres using citric-acid-catalyzed carbonization of starch,
e-Polymers (2015) 15, 179–183

83. T.Pasang, K.Namratha, T.Parvin, C.Ranganathaiah and **K.Byrappa (Impact factor 1.7)**
Tuning of band gap in TiO_2 and ZnO nanopracticles by selective doping for photocatalytic applications

Materials Research Innovation (2015) 19 (1), 73-80.

84. K. Manpreet, Y. Shyma Mary, C. Yohannan Panicker, H.T. Varghese, H.S. Yathirajan, **K. Byrappa**, C.V. Alsenoy, (**Impact Factor 2.7**)
Vibrational spectroscopic (FT-IR, FT-Raman) and quantum chemical calculations of 1 (5,5-dioxido-10H-phenothiazin-10-yl)ethanone,
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2014) 120, 445–455.

85. Manpreet Kaur, J.P. Jasinski, C.N. Kavitha, H.S. Yathirajana and **K. Byrappa**,
{2-[(4- Nitrobenzylidene) amino]]-4, 5, 6, 7-tetrahydro-1-benzothiophen-3-yl} (phenyl) methanone,
Acta Cryst. (2014) E70, o738-o739.

86. Manpreet Kaur, J.P. Jasinski, C.N. Kavitha, H.S. Yathirajan and **K. Byrappa**
{2-[(2- Hydroxybenzylidene) amino]-4, 5, 6, 7-tetrahydro-1-benzothiophen-3-yl} (phenyl) methanone**,**
Acta Cryst. (2014). E**70**, o476–o477.

87. Manpreet Kaur, J.P. Jasinski, T.S. Yamuna, H.S. Yathirajan and **K. Byrappa**,
{2-[(1H-Indol-3-ylmethylidene) amino]-4, 5, 6, 7-tetrahydrobenzo[b]thiophen-3-yl} (phenyl) methanone,
Acta Cryst. (2014). E**70**, o501–o502.

88. Manpreet Kaur, J.P. Jasinski, C.N. Kavitha, H.S.Yathirajan and **K. Byrappa**
[2-(Benzylideneamino)-4,5,6,7-tetrahydrobenzo[b]thiophen-3-yl](phenyl) methanone,
Acta Cryst. (2014). E**70**, o507–o508.

89. Manpreet Kaur, J.P. Jasinski, T.S. Yamuna, H.S. Yathirajan, and **K. Byrappa**,
{2-[(2-Bromo-5-methoxybenzylidene)amino]-4,5,6, 7-tetrahydrobenzo[b]thiophen-3-yl} (phenyl)methanone,
Acta Cryst. (2014) E70, o581–o582.

90. Manpreet Kaur, J. P. Jasinski, C.N. Kavitha, H. S.Yathirajan and **K. Byrappa**, Crystal structure of N-[3-(2-chlorobenzoyl)-5-ethylthiophen-2-yl]-2-[(E)-(2-hydroxybenzylidene)amino]acetamide,
Acta Cryst. (2014). E70, o1011–o1012.

91. Manpreet Kaur, J. P. Jasinski, H.S. Yathirajan, B. Narayana and **K. Byrappa,**
N-(1,5-Dimethyl-3-oxo-2-phenyl-2,3-dihydro-1H-pyrazol-4-yl)-2-(4-nitrophenyl) acetamide,
Acta Cryst. (2014) E70, o636–o637.

92. Mahadevaiah, Thejus Urs. G, **K. Byrappa** and R. Somashekar, **(Impact factor 0.45)**
Microstructural Parameters of Bivoltine Silk films using X – Ray Diffraction Studies,
Indian Journal of Advances in Chemical Science (2014) 2, 3-5

93. Mahadevaiah, Thejus Urs. G, **K. Byrappa** and R. Somashekar,
Preparation and Characterization of Mulberry Silk Fibroin Films,

International Annals of advanced Scientific Research (2014), 01-07.

94. Manpreet Kaur, J.P. Jasinski, C.N. Kavitha, H.S Yathirajan and **K. Byrappa**, {2-[(4-Nitrobenzylidene)amino]-4,5,6,7-tetrahydro-1-benzothiophen-3-y1} (phenyl) methanone,
Acta Cryst. (2014) E70, o738-o739

95. C.S.Vicas, K.Namratha, P.Shuba, and **K. Byrappa**,
Chick embryo genotoxicity analysis of the green medicine, Embilica Officinalis aqueous extract and its action on endodotonic pathogens,
Journal of Green Science and Technology (2013) 1, 91-97

96. K. Manpreet, J.P. Jasinski, R.J. Butcher, H.S. Yathirajan and **K. Byrappa**, Desvenlafaxinium chloranilate ethyl acetate solvate
Acta Cryst. (2013) E69, o1556-o1557

97. Sumana Y Kotian , Narayana U Kudva N , K .M. Lokanatha Rai, **K.Byrappa** , D.Revanasiddaiah
Synthesis Of New Series Of 4,5-dihydroisoxazole-5-carboxylate Derivatives For The Study Of Their Liquid Crystalline Properties
Journal of Chemical Sciences **(2016)** 128 (7), 1033-1036.

98. Ravi Kumar G, Sumana Y Kotian , Narayana U Kudva N , Kangkana Banerjee , C S Vicas , K M Lokanatha Rai, Ravishankar Rai .V, **K. Byrappa**.
Synthesis of Novel Isoxazoline derivatives and Evaluation of their antibacterial activity
Journal of Chemical, Biological and Physical Sciences 6,1: 128-137, 2016.

99. Mahadevaiah, Thejas Urs G, **K. Byrappa**, R. Somashekar
Effect of Gamma Irradiation on the Structural properties of PVA/SF bland films.
International Journal of ―Ionics‖ **(communicated)**

100. K. Namratha, **K. Byrappa**, S. Byrappa, P. Venkateshwaralu, D. Rajashekar, and B.K. Deepthi **(Impact Factor 2.5)**
Hydrothermal fabrication of selectively doped organic assisted advanced ZnO nanomaterial for solar driven photocatalysis,
Journal of Environmental Sciences, Elsevier (2015) 34, 248-255.

101. B. Shahmoradi, A. Maleki and **K. Byrappa**, **(Impact factor 1.1)**
Removal of Disperse Orange 25 using in situ Surface Modified Iron Doped TiO_2 Nanoparticle,
Desalination and Water Treatment (2013) 53 (13), 3615-3622.

102. K. Namratha, S. Byrappa and **K. Byrappa**,
Hydrothermal Synthesis, *In Situ* Surface Modification and Antioxidant Activity of Couple Doped Advanced ZnO Nanoparticles,
J. Nanopharmaceutics Drug Delivery (2013) 1, 258-265.

103. M. Kaur, Y. S. Mary, C.Y. Panicker, H.T. Varghese, H.S. Yathirajan, **K. Byrappa** and C.V. Alsenoy, **(Impact factor 2.7)**

Vibrational Spectroscopic (FT-IR, FT-Raman) and Quantum Chemical Calculations of 1-(5,5-dioxido-10H-phenothiazin-10-yl)ethanone,
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2014) 120, 445-455.

104. B.V. Kumar, S. Vasuki, B. Basavalingu and **K. Byrappa**, Synthesis and characterization of Calcium Aluminum Silicate Hydroxide (CASH) crystals,
J. Applied Geochemistry, (2013) 15, 336-342.

105. B. Shahmoradi, **K. Byrappa** and A. Maleki, (**Impact Factor: 2.647**)
Surface Modification of ZnO and TiO2 Nanoparticles under Mild Hydrothermal Conditions,
Material Science and Engineering **A** (2013) 3, 50-56.

106. K. Namratha, **K. Byrappa**, Jamuna Bai, V. Ravishankar Rai, D. Ehrentrant, I.A. Ibrahim, M. Yoshimura, (**Impact Factor: 1.16**)
Antimicrobial Activities of Silver Doped ZnO Designer Nanoparticle,
Journal of Biomaterials and Tissue Engineering (2013) 3, 1-6.

107. K. Namratha, Jamuna Bai, V. Ravishankar Rai, Dirk Ehrentraut, I.A. Ibrahim, M. Yoshimura, **K. Byrappa** (**Impact Factor: 2.73**)
Synthesis and Biological Activities of Organics Assisted Pd Doped ZnO Nanoparticles through Novel Solution Processing Routes.
Materials Focus (2013) 2, 136-142.

108. H.P. Shivaraju and **K. Byrappa**, (**Impact Factor: 1.01**)
The role of hydrothermal prepared supported photocatalytic composite in organic micro pollutants removal from the water,
J. Environmental Science and Engineering (2012) 54, 353-364.

109. H.P. Shivaraju and **K. Byrappa**, (**Impact Factor: 2.57**)
Hydrothermal Processing and In Situ Surface Modification of Metal Oxide Nanomaterials,
JournalofSupercriticalFluids(2012) 79, 251-260.

110. P. Parameswara, T. Demappa, M. Mahadevaiah, Y. Prakash, H. Somashekarappa**, K. Byrappa**, and R. Somashekar (**Impact Factor: 1.8**)
Polymeric degradation of water soluble chitosan/HPMC films using WAXS data,
Materials Research Innovations (2012) 16, 126-129.

111. D. Ehrentraut, K. Fujii, J. Reigler, **K. Byrappa**, M. Nikl and T. Fukuda (**Impact Factor: 9.2**)
Functional one-, two- and three dimensional ZnO structures by solvothermal processing,
Progress in Crystal Growth and Characterization of Materials, (2012) 58, 51-59.

112. T. Parvin, K. Namratha, I.A. Ibrahim, S. Phanichphant and **K. Byrappa (Impact Factor: 1.226)**
Photocatalytic degradation of municipal wastewater and Brilliant Blue dye using

hydrothermally synthesized surface modified silver doped ZnO designer particles, ***International Journal of Photoenergy*** (2012) Article ID 670610, 8.

113. T. Parvin, S. Phanichphant, J.G. Morales, I. A. Ibrahim, R. Somashekar, S. Ananda and **K. Byrappa** (**Impact Factor: 1.8**)
Hydrothermal synthesis and characterization of tin doped ZnO polyscale crystals with hexylamine additive,
Materials Research Innovations (2012) 16, 25-29.

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

115. B. M. Venkatesha, R. T. Radhika, S. Ananda, K**. Byrappa** (**Impact Factor: 0.9**)
Oxidative decolorization of indigo caramine dye with chloramine-T catalyzed by cobalt (II),
Research on Chemical Intermediates (2011) 37, 195-199.

116. C.P. Sajan, B. Basavalingu, S. Ananda and **K. Byrappa**,
Comparative Study on the Photodegradation of Indigo Caramine Dye using Commercial TiO_2 and Natural Rutile,
J. Geological Society of India (2011) **77,** 82-88.

117. B. Shahmoradi, A. Maleki and **K. Byrappa (Impact Factor: 4.76)**
Photocatalytic degradation of Amaranth and Brilliant Blue FCF dyes using in sit modified tungsten doped TiO_2 hybrid nanoparticles,
Catal. Sci. Technol. (2011) 1, 1216-1223.

118. K. Namratha, S. Suresha, M.B. Nayan and **K. Byrappa (Impact Factor: 0.9)**
Synthesis, Characterization and Photocatalytic Properties of Silver Doped ZnO, ***Research on Chemical Intermediates*** (2011) 37, 531-539.

119. C. Rai, **K. Byrappa** and S.M. Dharmaprakash **(Impact Factor: 0.85)**
Crystal Growth and Dielectric, Mechanical, Electrical and Ferroelectric Characterization of n- bromo Succinimide Doped Triglycine Sulphate Crystals, **Physica *B*** (2011) 406, 3308-2212.

120. B. Shahmoradi, K. Namratha, **K. Byrappa**, K. Soga, S. Ananda and R. Somashekar (**Impact Factor: 0.9**)
Enhancement of Photocatalytic Activity of modified ZnO Nanoparticles with Manganese Additive,
Research on Chemical Intermediates (2011) 37, 329-340.

121. K. Namratha, M.B. Nayan and **K. Byrappa** (**Impact Factor: 1.8**)
Hydrothermal Synthesis and Photocatalytic Properties of Modified and Unmodified Zinc Oxide Nanoparticles,
Materials Research Innovations (2011) 15, 36-42.

122. B. Shahmoradi, I. A. Ibrahim, N. Sakamoto, S. Ananda, R. Somashekar, T.N. Guru

Row, and **K. Byrappa,**
Photocatalytic Treatment of Municipal Wastewater Using Modified Neodymium Doped TiO2 Hybrid Nanoparticles.
***Env. Sci. & Health-A.*,** (2010) 45, 1248-1255.

123. H. P. Shivaraju, **K. Byrappa**, T. M. S. Vijay Kumar and C. Ranganathaiah, Hydrothermal Synthesis and Characterization of TiO2 Nanostructures on the Ceramic Support and their Photo-catalysis Performance,
Bulletin of the Catalysis Society of India (2010) 9, 37-50.

124. B. Shahmoradi, N. Sakamoto, K. Soga, **K. Byrappa, (Impact Factor: 1.7)**
In-Situ Surface Modification of Molybdenum Doped TiO2 Organic-Inorganic Hybrid Nanoparticles under Hydrothermal Conditions and Treatment of Pharmaceutical Effluent,
Environmental Technology, (2010) 31, 1213.

125. B. Shahmoradi, I.A. Ibrahim, T.N. Guru Row, R. Somashekar, **K. Byrappa (Impact Factor: 5.9)**
Modification of Neodymium Doped ZnO Hybrid Nanoparticles under Mild Hydrothermal Condition**,**
Nanoscale, Royal Society of Chemistry (2010) 2, 1160-1164.

126. H.N. Girish, M.S. Vijayakumar, M.K. Devaraju, **K. Byrappa** and B. Basavalingu **(Impact Factor: 0.4)**
Hydrothermal Synthesis and Characterization of Neodymium Doped Yttrium Aluminium Perovskite (Nd: YAP),
the Indian Mineralogist (2010) 43, 162-168.

127. B. Basavalingu, P. Madhusudan**, K. Byrappa** and M. Yoshimura **(Impact Factor: 1.8)**
Hydrothermal synthesis of sp3 bonded carbon from β-SiC – Organic Compound System,
Materials Research Innovations (2010) 14, 69-73.

128. T. Khosravi, H.P. Shivaraju, C.P. Sajan, **K. Byrappa**,
Impact assessment of effluent discharge on underground water qualities around gemini distillery, Nanjangud, Mysore District,
International Journal of Applied Environmental Sciences (2010) 5, 617-626.

129. E.A. Musad, K.M.L. Rai, **K. Byrappa,**
Synthesis of some new 3, 5-bis (substituted) pyrazoles and isoxazoles based on (N'^1E, N'^3E)- N′1, N'^3-bis (3, 4, 5-substitutedbenzlidene) malonohydrazide under solvothermal conditions,
International Journal of Biomedical Science (2010) 6, 45-48.

130. C.P. Sajan, H.P. Shivaraju, K.M. Lokanatha Rai, S. Ananda, M.B. Shayan, T. Thonthai, G.V. Narasshima Rao and **K. Byrappa (Impact Factor: 1.8)**
Photocatalytic degradation of textile effluent using hydrothermally synthesized Molybdenum oxide supported Titania photocatalyst,
***Materials Research Innovations*,** (2010) 14, 89-94.

131. H.P Shivaraju, K. Byrappa, M.B Shayan, T.Rungnapa, S.Pakamard, Vijay Kumar and S. Ananda **(Impact Factor: 1.8)**
Hydrothermal coating of ZnO onto calcium alumino silicate beads and their application in the photodegradation of amaranth dye,
Materials Research Innovation (2010) 14, 73-79.

132. H.P. Shivaraju, C.P. Sajan, T. Rungnapa, M.S. Vijay Kumar, C. Ranganathaiah and **K. Byrappa (Impact Factor: 1.8**)
Photocatalytic treatment of organic pollutants in textile effluent by using hydrothermally prepared photocatalytic composite,
Materials Research Innovations (2010) 14, 80-86.

133. **K. Byrappa**, C.K. Chandrashekar, B. Basavalingu, K.M. Lokanatha Rai, K. Soga (**Impact Factor: 1.8**)
Investigations of yttrium vanadate system under hydrothermal and solvothermal conditions,
Materials Research Innovation (2010) 14, 38-44.

134. P.G. Smitha, B.V. Suresh Kumar and **K. Byrappa**,
Study of Solid chemistry form Bantwal Taluk, Southwestern Karnataka,
India my SCIENCE (2010) 35, 6-19.

135. B.V. Suresh Kumar, Siddaramaiah, M.B. Shayan, K.S. Manjula, C. Ranganathaiah, G.V. Narasimha Rao, B. Basavalingu and **K. Byrappa** (**Impact Factor: 1.8**)
Effect of particulate filler on the properties of polyurethane composites,
J. Polymer Research (2010) 17, 135-142.

136. **K. Byrappa** (**Impact Factor: 1.7**)
Novel Hydrothermal Solution Routes of Advanced High Melting Nanomaterials Processing,
Journal of Ceramic Society of Japan (2009) 117, 236-244.

137. H.S. Dayananda, K.S. Lokesh, **K. Byrappa, (Impact Factor: 0.473)**
Chemical fixation of electroplating sludge and microstructural analysis of stabilised fly ash and cement,
Materials Research Innovations (2009) 13, 54-63.

138. H.S. Dayananda, K.S. Lokesh and **K. Byrappa** (**Impact Factor: 1.8**)
Chemical fixation of electroplating sludge and microstructural analysis of stabilized matrix using fly ash and cement,
Mater. Res. Innov. (2009) 13, 54-63.

139. D. Ehrentraut, M. Miyamoto, H. Sato, J. Riegler, **K. Byrappa**, K. Fujii, K. Inaba, T. Fakuda and T. Adschiri (**Impact Factor: 5.2**)
Simple processing of ZnO from solution: Homoepotaxial Film and Bulk Single Crystal,
Crystal Growth and Design (2008) 8, 2814-2820.

140. B. Basavalingu, H.N. Girish, **K. Byrappa,** Kohei Soga (**Impact Factor: 2.38**)
Hydrothermal synthesis and characterization of orthorhombic yttrium aluminium perovskites(YAP),
Mater. Chem. Phys. (2008) 112, 723-725.

141. P.G. Smitha, Lancy D'Souza, **K. Byrappa**,
Coefficient of Correlation for Soil Physico-Chemical Parameters,
Environmental Science- An Indian Journal (2008) 3, 1-4.

142. **K. Byrappa**, M.K. Devaraju, J.R. Paramesh, B. Basavalingu and K. Soga (**Impact Factor: 1.8**)
Hydrothermal synthesis and characterization of LaPO4 for bio-imaging phosphors,
J. Mat. Sci. (2008) 43, 2229-2233.

143. B. Basavalingu, P. Madhusudan, A.S. Dayananda, K. Lal, **K. Byrappa** and M. Yoshimura (**Impact Factor: 1.8**)
Formation of filamentous carbon through dissociation of chromium carbide under hydrothermal conditions,
J. Mater. Sci. (2008) 43, 2153-2157.

144. A.S. Dayananda, C.P. Sajan, B. Basavalingu, **K. Byrappa**, K. Soga and M. Yoshimura (**Impact Factor: 1.8**)
Hydrothermal preparation of ZnO: CNT and TiO2: CNT composites and their photocatalytic applications,
J. Mat. Sci. (2008) 43, 2348-2355.

145. K. Jailakshmi, K.M.Lokanatha Rai, **K. Byrappa (Impact Factor: 2.302)**
Synthesis of benzhydrol derivatives by metal imidozalen catalysed electrophilic addition of aromatic aldehyde to hydrocarbons under solvothermal condition,
J. Mater. Sci. (2008) 43, 2254-2257.

146. M. Yoshimura and **K. Byrappa** (**Impact Factor: 2.302)**
Hydrothermal Technology Past, Present and Future (Review),
J. Mater. Sci. (2008) 43, 2085-2103.

147. **K. Byrappa**, S. Ohara and T. Adschiri (**Impact Factor: 14.6**)
(Review) Nanoparticles synthesis using supercritical fluid-towards biomedical applications,
Advanced Drug Delivery Reviews, Elsevier, The Netherlands (2008) 60, 299-327.

148. **K. Byrappa**, B.V. Suresh Kumar, G.V. Narasimha Rao, M.S. Vijaya Kumar, C.Ranganathaiah (**Impact Factor: 1.8**)
Synthesis and characterization of R3+:AlPO4, where R=Ce, Pr and Nd under hydrothermal conditions, ***Mater. Res. Innov.*** 11 (2007) 122-126.

149. **K. Byrappa**, P.G. Smitha and C.P. Sajan,
Seasonal analysis of physico-chemical parameters of ground water samples from rural areas of Karkala Taluk, Karnataka State, India,
Environmental Science : An Indian Journal (2007) 2, 059-067.

150. P.G. Smitha, **K. Byrappa** and S.N. Ramaswamy (**Impact Factor: 0.48**)
Physico Chemical characteristics of water samples of Bantwal Taluk, Southwestern Karnataka, India,
Journal of Environmental Biology (2007) 28, 591-595.

151. **K. Byrappa, (Impact Factor: 0.830)**
Multi-energy processing: Hydrothermal as its pioneer (Editorial),
Materials Research Innovations (2007) 11, 161-162.

152. **K. Byrappa,** B.V.S. Kumar,
Characterization of zeolites by infrared spectroscopy,
Asian Journal of Chemistry (2007) 19, 4933-4935.

153. B.V. Suresh Kumar, **K. Byrappa,** K.M. Lokanatha Rai, M.K Devaraju, M.S Vijaya Kumar, C. Ranganathaiah,
Synthesis and characterization of AlPC4zeolites using alanine and glycine as templates,
Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry (2007) 46A , 86-90.

154. **K. Byrappa,** C.K. Chandrashekar, K.M. Lokanatha Rai, S. Ananda and M. Yoshimura (**Impact Factor: 1.9**)
Growth morphology and mechanism of rare earth vanadate crystals under mild conditions,
J. Crystal Growth (2007) 306, 94-101.

155. A.K. Subramani, R. Dinesh, **K. Byrappa**, G.N. Kumaraswamy, H.B. Ravishankar, C. Ranganathaiah, K.M.L. Rai, S. Ananda and M. Yoshimura (**Impact Factor: 2.30**)
Hydrothermal preparation and characterization of TiO2-AC Composites, ***Materials Letters*****, Elsevier** (2007) 61, 4828-4831.

156. **K. Byrappa** and T. Adschiri (**Impact Factor: 9.2**)
Hydrothermal Technology for Nanotechnology (Review Article),
Progress in Crystal Growth and Characterization of Materials, (2007) 53, pp. 117-166.

157. C.W. Chen, W. Suchanek, P. Shuk, **K. Byrappa**, C. Oakes, R.E. Riman, K. Brown, K.S. TenHuisen and V.F. Janas (**Impact Factor: 2.272**)
The role of ammonium citrate washing on the characteristics of mechanochemical hydrothermal derived magnesium-containing apatites,
J. Mater. Sci.: Mater. Med. (2007) 18, 1413-1421.

158. B.V. Suresh Kumar, **K. Byrappa**, K.M. Lokanatha Rai, M.K. Devaraju, M.S. Vijaya Kumar, C. Ranganathaiah,
Synthesis and characterization of AlPO4-zeolites using alanine and glycine as template,
Indian J. of Chem. (2007) 46A, 86-90.

159. B. Basavalingu, **K. Byrappa** and P. Madhusudan,
Hydrothermal synthesis of nanosized crystals of diamond under sub natural

conditions,
J. Geological Society of India, (2007) 69, 665-670.

160. **K. Byrappa**, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, C Ranganathaiah and M. Yoshimura (**Impact Factor: 0.911**)
Photocatalytic degradation of Indigo caramine dye using TiO_2 impregnated activated carbon,
Bull. Mater. Sci., (2007) 30, 37-41.

161. **K. Byrappa**, C.P. Sajan, B.V. Suresh Kumar and C. Ranganathaiah Soil Characteristics around Nanjangud, Mysore District, India-A case study, ***Environmental Science-An Indian Journal***, (2007) 1, 72-79.

162. **K. Byrappa**, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, R. Dinesh and M.Yoshimura (**Impact Factor: 0.911**)
Photocatalytic degradation of Rhodamine B Dye using hydrothermally synthesized ZnO,
Bulletin of Mater. Sci. (2006) 28, 1-6.

163. S. Ananda, K.B. Sudha Rani, B.V. Suresh Kumar, **K. Byrappa** (**Impact Factor: 0.437**)
Zeolite (AlPO4-5) inhibition of D-Glucose oxidation by sodium N-Chlorobenzene sulphamide (Chloramine-B) in NaOH medium: A kinetic study,
Journal of Bulgarian Chem. Comm. (2006) l.38, 255-262.

164. R. Dinesh, T. Fujiwara, T. Watanabe, **K. Byrappa**, M. Yoshimura (**Impact Factor: 2.302**)
Solution synthesis of crystallized AMO_4 (A=Ba, Sr, Ca; M=W, Mo) film at room temperature,
J. Mater. Sci. (2006) 4, 1541-154.

165. B. Basavalingu, **K. Byrappa**, M. Yoshimura, P. Madhusudan and A.S. Dayananda (**Impact Factor: 2.302**)
Hydrothermal synthesis and characterization of micro to nano sized carbon particles,
J. Mater. Sci., (2006) 41, 1465-1469.

166. **K. Byrappa**, A.K. Subramani, K.M. Lokanatha Rai, S. Ananda, M.H. Sunitha, B. Basavalingu and K. Soga (**Impact Factor: 2.303**)
Impregnation of ZnO onto activated carbon under hydrothermal conditions and its photocatalytic properties,
J. Mater. Sci. (2006) 41, 1355-1362.

167. **K. Byrappa**, M.H. Sunitha, A.K. Subramani, K.M. Lokanatha Rai, S. Ananda, B. Basavalingu and M. Yoshimura (**Impact Factor: 2.303**)
Hydrothermal preparation of neodymium oxide coated Titania composite particulates and its application in the photocatalytic degradation of procian red dye,
J. Mater. Sci., (2006) 41, 1369- 1375.

168. **K. Byrappa**, Ramningaiah, C.K. Chandrashekar, K.M.L. Rai, B. Basavalingu and K.

Soga (**Impact Factor: 2.302**)
Crystal Growth and morphology of Nd: YVO4 under hydrothermal conditions,
J. Mater. Sci. (2006) 4, 11415-1421.

169. E. Aparna, K.M. Lokanatha Rai, M. Sureshbabu, R.L. Jagadish, S.L. Goankar and **K. Byrappa (Impact Factor: 2.302)**
Synthesis of Thioesters and Thioamides under solvothermal conditions using thiourea thionating agent,
J. Mater. Sci. (2006) 41, 1391-1393.

170. **K. Byrappa**, S. Kousalya, B.V. Suresh Kumar and Tienchai Tonthai (**Impact Factor: 1.8**)
Hydrothermal treatment of effluent affection polluted soil of Nanjangud, Mysore Dist. India,
J. Mater. Sci. (2006) 41, 1531-1534.

171. **K. Byrappa,** M. Yoshimura, C. N. R. Rao,
Journal of Materials: Editorial JNCASR, Bangalore, India (2006) 41(5) Pages 1297-1298.

172. **K. Byrappa**, M.K. Devaraju, P. Madhusudan, A.S. Dayananda, B.V. Suresh Kumar, H.N. Girish, S. Ananada, K.M.L. Rai and Pratik Javeri (**Impact Factor: 2.302)**
Synthesis and characterization of calcium aluminium silicate hydroxide (CASH) mineral,
J. Mater. Sci. (2006) 41, 1395-1398.

173. **K. Byrappa**, B.V. Suresh Kumar, C. Ranganathaiah, R. Somashekar, R. Dinesh, K.M.L. Rai and S. Ananda (**Impact Factor: 0.8**)
Hydrothermal crystallization and characterization of R+3:AlPO4 zeolites, where R=Ce, Pr and Nd
Acta *Cryst.* (2005) C382.

174. A.K. Subramani, **K. Byrappa**, R. Dinesh, K.M.L. Rai, S. Ananda, M. Yoshimura (**Impact Factor: 0.8**)
Hydrothermal preparation of TiO_2: AC composite crystalline particulates,
Acta Cryst. (2005) A61, C118.

175. **K. Byrappa**, Ramaningaiah and M. Yoshimura,
In-situ fabrication of Nd: YVO4 crystal morphology using soft hydrothermal solutions,
Indian Journal of Physics, (2004) 78, 907-913.

176. K.M.L. Rai, M. Suresh Babu and **K. Byrappa** (**Impact Factor: 0.437**)
Esterification under solvothermal conditions,
Bulgarian Chemical Communications (2004) 36, 87-88.

177. C.W. Chen, C S. Oakes, **K. Byrappa**, R. E. Riman, K. Brown, K.S.Ten Huisen and V.F. Janas (**Impact Factor: 6.626**)
Synthesis, Characterization and dispersion properties of hydroxyapatite prepared by

mechanochemical-hydrothermal methods,
J. Mater. Chem (2004) 14, 2425-2432.

178. **K. Byrappa**, R. Dinesh, K.M.L. Rai and M. Yoshimura (**Impact Factor: 0.709**)
Photocatalytic degradation of nitroarenes using activated carbon/TiO_2 photocatalyst,
Trans. Jap. Mat. Res. Soc. (2004) 29, 2407-2411.

179. W.L. Suchenak, **K. Byrappa**, P. Shuk, R.E. Riman, K.S. TenHuisen and V.F. Janas (**Impact Factor: 8.387**)
Preparation of magnesium-substituted hydroxyapatite powders by the mechanochemical- hydrothermal method
Biomaterials, (2004).25, 4647- 4657.

180. W.L. Suchanek, **K. Byrappa,** P. Shuk, R.E. Riman, V.F. Janas and K.S. TenHuisen (**Impact Factor: 2.41**)
Mechanochemical-hydrothermal synthesis of calcium phosphate powders with coupled magnesium and carbonate substitution,
J. Solid State Chemistry (2004) 177, 793-799.

181. R.E. Riman, W.L. Suchanek, **K. Byrappa**, Chun-Wei Chen, P. Shuk. C.S. Oakes (**Impact Factor: 2.82**)
Solution synthesis of hydroxyapatite designer particulates,
Solid State Ionics (2002) 151, 393-402.

182. W.L. Suchanek, P. Shuk, **K. Byrappa**, R.E. Riman, K.S. Ten Huisen and V.F. Janas (**Impact Factor: 8.387**)
Mechanochemical-hydrothermal synthesis of carbonated apatite powders at room temperature,
Biomaterials (2002) 2, 699-710.

183. B.V. Suresh Kumar, **K. Byrappa**, K.M. Lokanatha Rai, S. Ananda and V. Ravindr (**Impact Factor: 0.247**)
The role of AlPO4-11 in the synthesis of biphenol-A and cinnamic acid, ***Indian Journal of Chemical Technology*** (2002) 9, 543-544.

184. B.V. Suresh Kumar, **K. Byrappa**, S. Ananda and K.M. Lokanatha Rai (**Impact Factor: 0.25**)
Effect of ionic conductivity in AlPO4 with different organic structure directing templates,
Asian Journal of Chemistry (2002) 14, 1513-1317.

185. **K. Byrappa** and B. Nirmala, Crystal Growth of Rare Earch Vanadate Laser Hosts and In-situ Fabrication of their Crystal Morphology under Mild Hydrothermal conditions,
PINSA (2002) 68, 193-2003.

186. B.V. Suresh Kumar, **K. Byrappa**, K.M.L. Rai, S. Anand, R.V. Rao,
The role of AlPO4-11 in the synthesis of bisphenol-a and cinnamic acid,
Indian Journal of Chemical Technology (2002) 9, 543-544.

187. B.Basavalingu, J.M.C. Moreni, **K. Byrappa**, Yu.G. Gogotsi, M. Yoshimura (**Impact Factor: 6.196**)
Decomposition of silicon carbide in the presence of organic compounds under hydrothermal conditions,
Carbon (2001) 39, 176-179.

188. B.V. Suresh Kumar, **K. Byrappa**, S. Ananda and K.M. Lokanatha Rai, Hydrothermal crystallization and electrical conductivity of aluminophosphate zeolites,
Indian Journal of Physics (2001) 75, 113-115.

189. K. B. Pawar and **K. Byrappa** (**Impact Factor: 0.68**)
X-ray, thermal and infrared studies of cavaniste from Wagholi Western Maharashtra, *India,*
Journal of Mineralogical and Petrological Sciences (2001) 96, 1-6.

190. **K. Byrappa**, K.M. Lokanatha Rai and M. Yoshimura (**Impact Factor: 2.15**)
Hydrothermal preparation of TiO2 and photocatalytic degradation of exachlorocyclohexane and dicholorodiphenyltrichloromethane,
Environmental Technology (2000) 21, 1085-1090.

191. M. Yoshimura, W. Suchanek and **K. Byrappa** (**Impact Factor: 1.1**)
Soft, solution processing- a strategy for materials processing in 21st century,
Materials Research Society Bulletin (2000) 25, 17-25.

192. **K. Byrappa** and J.R. Paramesha (**Impact Factor: 1.1**)
Crystal growth and characterization of rare earth phosphates,
Materials Science Forum (1999) 315, 514-518.

193. **K. Byrappa**, B. Nirmala and M. Yoshimura (**Impact Factor: 1.1**)
Crystal growth of Nd: RVO4 (where R=Y, Gd) under mild hydrothermal conditions,
Materials Science Forum (1999) 315-317, 506-513.

194. **K. Byrappa** and B. Sanjeeva Ravi Raj,
Study of crystallization processes in some tungstate and phosphate systems under hydrothermal conditions,
Indian Journal of Physics (1999) 73, 1-9.

195. **K. Byrappa**, M.A. Khandhaswamy and V. Srinivasan (**Impact Factor: 0.95**)
Crystal growth and morphology of Na3BaCl5.2H2O crystals,
Crystal Research and Technology (1999) 34, 850-857.

196. **K. Byrappa** and B. Sanjeeva Ravi Raj,
Crystal growth, morphology and properties of NaHM (P2O7) [where M= Al, Co, Ni, Co, Zn, Mn, Cd, Pb],
Indian Journal of Physics (1998) 72, 1-10.

197. **K. Byrappa**, M.A. Khandhaswamy and V. Srinivasan,
Crystal growth and morphology of (NH4)3BaCl5.2H2O,
Indian Journal of Physics (1998) 72, 259-268.

198. V. Rajeev, S. Maneesha, A.D. Shaligram, A.B. Kulkarni and **K. Byrappa** (**Impact Factor: 0.67**)
Development of low cost PC-Based impedance analyzer system for complex impedance spectroscopic studies,
Asian Journal of Physics (1997) 6, 77-81.

199. V. Rajeev, V.J. Hanumesh, B. Sanjeeva Ravi Raj, **K. Byrappa**, A.R. Kulkarni and A.B. Kulkarni (**Impact Factor: 0.67**)
Noise in solid electrolyte thorough complex impedance spectroscopic studies,
Asian Journal of Physics (1997) 6, 82-90.

200. V.J. Hanumesh, V. Rajeev, B. Sanjeev Ravi Raj, Amita Jain, **K. Byrappa**, A.B. Kulkarni and A.R. Kulkarni (**Impact Factor: 0.67**)
Double ion conduction in new solid electrolyte a CIS study,
Asian Journal of Physics (1997) 6, 101-107.

201. **K. Byrappa**, B. Sanjeeva Ravi Raj, V. Rajeev, A.B. Kulkarni and Rafael Rodriguez Clemente,
Hydrothermal growth and characterization of $Na_2Ti_3O_7$,
Indian Journal of Physics (1997) 71, 131-142.

202. **K. Byrappa**, V. Rajeev, V.J. Hanumesh, A.R. Kulkarni and A.B. Kulkarni, P Jayantharaja, K.V.K Shekar (**Impact Factor: 1.8**)
$Li_3B_5O_8(OH)_2$: crystal growth and ionic conductivity studies,
J. Mater. Sci. (1997) 32, 1599-1602.

203. **K. Byrappa**, V. Rajeev, V.J. Hanumesh, A.R. Kulkarni and A.B. Kulkarni (**Impact Factor: 1.4)**
Crystal growth and electrical properties of $Li_2B_4O_7$ crystals,
J. Mater. Res. (1996) 11, 2616-2621.

204. **K. Byrappa** and Amita Jain (**Impact Factor: 1.4**)
Hydrothermal growth and characterization of $NaLa(WO_4)_2$ Crystals,
J. Mater. Res. (1996) 11, 2869-2875.

205. **K. Byrappa** and Amita Jain (**Impact Factor: 1.8**)
Hydrothermal growth and characterization of $TiOSO_4$ crystals,
J. Mater. Sci. Letts. (1994) 13, 1430.

206. **K. Byrappa**, B.V. Umesh Dutt, A. Clearfield and M. Damodara Poojary (**Impact Factor: 1.4**)
Crystal growth, morphology, structure and properties of $HNaMP_2O_7$, (where M=Co and Ni crystals),
J. ***Mater. Res.*** (1994) 9, 1519.

207. **K. Byrappa** and B.V. Umesh Dutt (**Impact Factor: 2.302**)
Crystal growth processes of formation of $HNaMP_2O_7$ crystals (where M= Co, Ni, Zn, Mn, Cu, Pb or Fe) under hydrothermal contitions,
J. Mater. Sci. (1994) 29, 6468.

208. **K. Byrappa** and Amita Jain,
Crystal growth and morphology of rare earth phosphates,
Indian Journal of Physics (1993) 67A, 429-436.

209. **K. Byrappa**, K.V.K. Shekar and Rafael R. Clemente (**Impact Factor: 1.4**)
Crystal growth and morphology of hydrothermally growth lithium borates,
J. Mater. Res. (1993) 8, 1-6.

210. **K. Byrappa** and K.V.K. Shekar **(Impact Factor: 1.4)**
Phases and crystallization in the system Li_2O-B_2O_3-H_2O under hydrothermal conditions,
J. Mater. Res. (1993) 8, 864.

211. **K. Byrappa**, K.V.K. Shekar and Rafael R. Clemente (**Impact Factor: 2.145**)
Hydrothermal synthesis and Characterisation of piezoelectric lithium tetraborate, $Li_2B_4O_7$ crystals,
Materials Research Bulletin (1993) 28, 709-718.

212. **K. Byrappa**, S. Srikanta Swamy, K.V.K. Shekar and Amita Jain,
Artificial growth of some piezoelectric minerals-berlinite and diomignite,
Indian Journal of Earth Sciences, (1993) 20, 71.

213. A. Cardenas, J. Solans, **K. Byrappa** and K.V.K. Shekar (**Impact Factor: 0.8**)
Structure of $H_2LiB_5O_9$,
Acta Cryst. (1993) C49 645-647.

214. S.H. Patil, S.I. Patil, S.R. Patil, S.M. Kadam, B.K. Chougule and **K. Byrappa** (**Impact Factor: 0.574**)
On the existence of canted spins in Mg-Zn system Czechoslovak,
J. Physics (1992) 42, 339-343.

215. **K. Byrappa** and D.Yu. Pushcharosky (**Impact Factor: 9.25**)
Crystal chemical significance of the growth of octahedrally coordinated complexes: Titanates, Niobates, Tantalates, etc. Sulphates, and related compounds Part II (REVIEW),
Progress inCrystal Growth and Characterization of Materials (1992) 24, 86-16.

216. **K. Byrappa** and D.Yu. Pushcharosky (**Impact Factor: 9.25**)
Crystal chemical significance of the growth of tetrahedrally coordinated complexes: silicates, Germanates, phosphates, sulphates and related compounds Part I (REVIEW),
Progress in Crystal Growth and Characterization of Materials (1992) 24, 1-85.

217. **K. Byrappa** and K.V.K. Shekar (**Impact Factor: 0.948**)
Synthesis and characterization of $Li_5B_5O_8(OH)_2$,
Kristal Und Technik (1992) 27, 767.

218. **K. Byrappa** and K.V.K Shekar (**Impact Factor: 1.8**)
Hydrothermal growth and characterization of $Li_2B_4O_7$ crystals,
J. Mater. Chem. (1992) 2, 13.

219. **K. Byrappa**, B.V. Umesh Dutt and G.S. Gopalakrishna (**Impact Factor: 2.302**) Morphology of New superionic pyrophosphates,
J. Mater. Sci. (1992) 27, 4439.

220. **K. Byrappa**, K.V.K. Shekar, A.B. Kulkarni and S. Gali,
Hydrothermal synthesis and characterization of $Li_4B_7O_{12}Cl$ crystals-fast ionic conductor,
Ind. J. Phys. (1992) 66A, 263.

221. **K. Byrappa**, B.V. Umesh Dutt, A.B. Kulkarni and S. Gali,
Growth and characterization of $Na_2ZnZr(P_2O_7)_2$- a new fast conductors,
Ind J. Phys. (1992) 66A, 761-766.

222. **K. Byrappa**,
A review of fast ionic conductors-new perspectives,
Ind. J. Phy. (1992) 66A, 234.

223. S. Gali, A. Carddenas, **K. Byrappa** and G.S. Gopalakrishna (**Impact Factor: 0.8**) Structure of $Na_2AlH_3(P_2O_7)_2$,
Acta Cryst. (1992) C48, 1650.

224. **K. Byrappa**, S. Srikanta Swamy and K. Sangwal,
Micromorphology of As-Grown Surfaces of Berlinite,
Ind. J. Physics (1991) 65A, 25-35.

225. **K. Byrappa**, Salvador Galim B.M.R. Wanklyn, A.B. Kulkarni, G. Narendranath S.K.Patil (**Impact Factor: 2.015**)
Synthesis and Characterization of Na_2ZrSiO_5 Crystals,
J. Mater. Sci. Letts. (1990) 9, 978

226. **K. Byrappa**, Salvodor Gali, A.b. Kulkarni, G. Narendranath, B.M.R. Wanklyn and S.K. Patil, (**Impact Factor: 2.015**)
Synthesis and Characterization of $K_2Ti_6O_{13}$,
J. Mater. Sci. Letts. (1990) 9, 898

227. Salvador Gali and **K. Byrappa** (**Impact Factor: 0.8**)
Structure of $(Na_{2/3}Zr_{1/3})_2P_2O_7$,
Acta Crist. (1990) C46.

228. **K. Byrappa**, S. Srikanta Swamy and Salvador Gali (**Impact Factor: 2.015**) Hydrothermal Synthesis and Structure of TmP_5O_{14} ,
J. Mater. Sci. Letts. (1990) 9, 235-236

229. **K. Byrappa** and U.D. Prahllad (**Impact Factor: 2.015**)
Thermal Expansion of Berlinite, ***J. Mater. Sci. Letts.*** (1989) 8, 1667-1669

230. Salvador Gali, **K. Byrappa** and G.S. Gopalakrishna (**Impact Factor: 0.8**) Structure of $Na_2MZr(P_2O_7)$, (M=Ni, Co), ***Acta Crist.***, (1989) C45, 1667-1669

231. **K. Byrappa**, G.S. Gopalakrishna and Salvador Gali,
Synthesis and Characterization of New Superionic Pyrophosphates, ***Indian Journal of Physics*** (1989) 63A, 321-325

232. **K. Byrappa**,
Recent Progress in the Growth of Piezoelectric Berlinite Crystals (REVIEW),
Indian Journal of Physics (1989) 63A, 303-320

233. D. Despande, S.K. Patil, A.H. Farooqui, N.B. Desai, **K. Byrappa** and A.B. Kulkarni,
Electronic Equivalent Circuit for a New Superionic conductor $Na_2Zr(VO4)2$,
Indian Journal of Physics (1989) 63A, 506-512

234. S.K. Patil, A.H. farooqui, A.B. Kulkarni, **K. Byrappa** and G. S. Gopalakrishna,
Analysis of Single Impedance Arcs of a New Superionic Conductor,
Bull. Electrochem. (1989) 5, 467-470

235. **K. Byrappa**, G.S. Gopalakrishna, A.B. Kulkarni and N.B. Desai (**Impact Factor: 2.015**) Impedance Measurements for some NASICON Analogues,
J. Mater. Sci. Letts. (1988) 138, 1-6

236. N.B. Desai, **K. Byrappa**, G.S. Gopalakrishna, S. Srikanta Swamy and A.B. Kulkarni (**Impact Factor: 0.0.895**)
Conductivity Pre-Exponential Factors for Some New Superionic Conductors, ***Bull. Mater. Sci.***, (1987) 10, 1-7.

237. A.B. Kulkarni, N.B. Desai, S.K. Patil, **K. Byrappa**, G.S. Gopalakrishna and S. Srikanta Swamy,
Frequency Dependent Conductivity of a New Superionic Conductor, $NH_4Zr_2V_3O_{12}$,
Proc. Solid State Physics Symposium (1987) 27-31.

238. N.B. Desai, **K. Byrappa**, A.B. Kulkarni and G.S. Gopalakrishna (**Impact Factor: 0.944**)
Conductivity Pre-exponential Factors for some New Superionic Conductors,
Bull. Mater. Sci. (1987) 9, 317.

239. **K. Byrappa**, N.B. Desai, A.B. Kulkarni and S. Srikanta Swamy, (**Impact Factor: 0.944**)
$NH_4Zr_2V_3O_{12}$ Proton Conductor,
Bull Mater. Sci. (1987) 9, 323.

240. **K. Byrappa**, N.B. Desai, A.B. Kulkarni and S. Srikanta Swamy,
High Temperature X-ray Diffraction Studies of the New Polymorphic Modification of $AlPO_4$,
Indian Journal of Physics, (1987) 62A, 353-358.

241. **K. Byrappa**, A.B. Kulkarni, S. Srikanta Swamy and N.B. Desai (**Impact Factor: 2.015**)
Ionic Conductivity Measurements for $AlPO_4$:M (M=Li, Na) Crystals,

J. Mater. Sci. Letts. (1987) 6, 1053.

242. **K. Byrappa**, N.B. Desai, A.B. Kulkarni and G.S. Gopalakrishna (**Impact Factor: 0.944**)
Ionic Conductivity and Hopping Rate Data for some NASICON Analogs,
Bull. Mater. Sci. (1987) 9, 117-121.

243. **K. Byrappa**, G.S. Gopalakrishna, S. Srikanta Swamy, (**Impact Factor: 2.82**)
Synthesis and Characterization of New Superionic Conductors NaCu2ZrP3O12 and $Na_2(La,Fe)ZrP_3O_{12}$,
Solid State Ionics (1987) 24, 1-8.

244. **K. Byrappa**, S. Srikantaswamy and J. Shashidhara Prasad (**Impact Factor: 1)**
Influence of admixtures on the Crystallization and Polymorphic Transitions of Piezoelectric Aluminium Orthophosphate Crystals,
Indian Journal of Physics (1987) 61A, 423.

245. **K. Byrappa**, G.S. Gopalakrishna and A.B. Kulkarni (**Impact Factor: 1**)
Synthesis and Characterization of Some New Superionic Conductors $Na_2(La,Me)ZrP_3O_{12}$,
Indian Journal of Physics (1987) 61A, 377.

246. **K. Byrappa**, J. Shashidhara Prasad and S. Srikanta Swamy (**Impact Factor: 1.8**)
High Temperature X-ray Diffraction Studies of Berlinite Crystals,
J. Mater. Sci. Letts. (1986) 5, 1189.

247. **K. Byrappa**, J. Shashidhara Prasad and S. Srikanta Swamy (**Impact Factor: 1.9**)
Synthesis and Characterization of a New Polymorphic Modification of AlPO4,
J. Crystal Growth (1986) 79, 232-235.

248. **K. Byrappa**, A.B. Kulkarni and G.S. Gopalakrishna (**Impact Factor: 1.9**)
Synthesis and Characterization of New Superionic Triorthophosphates,
J. Crystal Growth
(1986) 79, 232.

249. **K. Byrappa**, J. Shashidhara Prasad, S. Srikanta Swamy and G.S. Gopalakrishna (**Impact Factor: 2.015**)
Crystal Data for NaMn2ZrP3O12, Na(Ce,Co)ZrP3O12 and Na2(La,Co)TiP3O12, ***J. Mater. Sci. Letts.*** (1986) 5, 108.

250. **K. Byrappa**, J. Shashidhara Prasad, S. Srikanta Swamy and G.S. Gopalakrishna (**Impact Factor: 2.015**)
Crystal Data for Na2(R,Me)ZrP3O12 and Na2LaZrP3O12,
J. Mater. Sci. Letts. (1986) 5, 1104.

251. **K. Byrappa,** J. Shashidhara Prasad, S. Srikanta Swamy and G.S. Gopalakrishna (**Impact Factor: 2.015**)
Crystal Data for NaNi2ZrP3O12 and Na2(La,Al)TiP3O12,
J. Mater. Sci. Letts. (1986) 5, 701-702.

252. **K. Byrappa,** S. Srikanta Swamy and J. Shashidhara Prasad (**Impact Factor: 1.8**)
New Polymorphic Modification of Aluminium Orthophosphates,
J. Mater. Sci. Letts (1986) 5, 690-692.

253. **K. Byrappa,** G.S. Goplakrishna and A.B. Kulkarni (**Impact Factor: 1.8**)
Synthesis and Characterization of $NaNi_2ZrP_3O_{12}$ Crystals,
J. Mater. Sci. Letts. (1986) 5, 519-521.

254. **K. Byrappa,** J. Shashidhara Prasad and S. Srikanta Swamy (**Impact Factor: 2.015**)
X-ray Data for $AlPO_4$ Crystals,
J. Mater. Sci. Letts. (1986) 5, 495.

255. A.B. Kulkarni, **K. Byrappa** and G.S. Gopalakrishna,
Creation of New Superionics by Ion Implantation of Natural Minerals,
Vignana Bharathi (1986) 9, 88-91

256. **K. Byrappa**, G.S. Gopalakrushna and A.B. Kulkarni (**Impact Factor: 2.015**)
Synthesis and Properties of $Na_2(La,Me)ZrP_3O_{12}$ Crystals,
J. Mater. Sci. Letts. (1986) 5, 408-410.

257. **K. Byrappa**, S. Srikanta Swamy, G.S. Gopalakrishna and V. Venkatachalapathy (**Impact Factor: 2.015**)
Infrared Spectra of Aluminium Orthophosphate Crystals,
J. Mater. Sci. Letts. (1986) 5, 203-205.

258. **K. Byrappa**, S. Srikanta Swamy, G.S. Gopalakrishna and V. Venkatachalapathy (**Impact Factor: 2.015**)
Influence of admixtures on the alpha-beta Berlinite Inversion,
J. Mater. Sci. Letts. (1986) 5, 347-348.

259. **K. Byrappa**, S. Srikanta Swamy, G.S. Gopalakrishna and V. Venkatachalapathy (**Impact Factor: 2.015**)
Influence of Admixtures on the Crystallization and Morphology of $AlPO_4$ Crystals,
J. Mater. Sci. (1986) 21, 2202-2206.

260. **K. Byrappa** and G.S. Gopalakrishna (**Impact Factor: 9.2**)
A Critical Survey on the Study of Alkaline Rare Earth Phosphates and with a special reference to the Hydrothermal Method,
Progress in Crystal Growth and Characterization (1986) 11, 89-107.

261. **K. Byrappa** (**Impact Factor: 9.2**)
Preparative Methods and Growth of Rare Earth Phosphates (REVIEW),
Progress in Crystal Growth and Characterization (1986) 13, 163-196.

262. **K. Byrappa**, G.S. Gopalakrishna, V. Venkatachalapathy and B. Puttaraj (**Impact Factor: 2.015**)
Crystallization and Characterization of $Na_2(La,Me)Zr(PO_4)_3$,
J. Mater. Sci. (1985) 20, 1419-1426.

263. **K. Byrappa**, G.S. Gopalakrishna, A.B. Kulkarni and V. Venkatachalapathy (**Impact Factor: 1.5**)
Synthesis and Characterization of Na2(R, Co) Zr (PO4)3 crystals,
J. Less Common Metals (1985) 110, 441-444.

264. **K. Byrappa**, A.B. Kulkarni and G.S. Gopalakrishna (**Impact Factor: 1.5**)
Ionic Conductivity in Na2 (La, Co) ZrP3O12 Crystals,
J. Less Common Metals (1985) 111, 359-360.

265. **K. Byrappa**, G.S. Gopalakrishna, V. Venkatachalapathy and B. Puttaraj (**Impact Factor: 2.015**)
Hydrothermal Growth and Properties of Na2 (La, Co) Zr (PO4)3 Crystals,
J. Mater. Sci. Letts. (1985) 4, 565-567.

266. **K. Byrappa,** V. Venkatachalapathy and B. Puttaraj (**Impact Factor: 2.015**)
Crystallization of Aluminium Orthophosphate,
J. Mater. Sci. (1984) 19, 2855-2862.

267. **K. Byrappa** (**Impact Factor: 2.5**)
The possible Reasons for the Absence of Condensed Phosphates in Nature,
Physics and Chemistry of Minerals (1983) 10, 94-96.

268. **K. Byrappa** and B.N. Litvin (**Impact Factor: 2.015**)
Synthesis and characterization of RbRP4O12,
J.Mater. Sci. (1983) 18, 2056-2062.

269. **K. Byrappa** and B.N. Litvin (**Impact Factor: 2.015**)
Hydrothermal synthesis of mixed phosphates of neodymium and alkaline metals (Me2O.Nd2O3.4P2.O5),
J. Mater. Sci. (1983) 18, 703-708.

270. **K. Byrappa** (**Impact Factor: 2.015**)
Fluorescence in CsNdP4O12,
J. Mat. Sci. Letts. (1982) 1, 232-235.

271. **K. Byrappa**, I.I. Plyusnina and G.I. Dorokhova (**Impact Factor: 2.015**)
Growth, Structure and IR-spectra of CsRP4O12 Crystals,
J. Mat. Sci. (1982) 17, 1847-1853.

272. **K. Byrappa** and G.I. Dorokhova (**Impact Factor: 2.015**)
Growth, Morphology and Structure of CsRP4O12 Crystals,
J. Mat. Sci. (1982) 17, 3244-3248.

273. **K. Byrappa** and G.I. Dorokhova (**Impact Factor: 1**)
Synthesis and X-ray studies of CsRP4O12 ,
Vestnik Moscow State University (1981) 4,93.

274. B.N. Litvin, **K. Byrappa,** V.A. Masloboev and N.V. Vinogradova
(**Impact Factor: 1.9**)
Phase formation in the system Cs2O-Nd2O3-P2O5-H2O at 300-800^0 C and (0.1-0.5)

10 PaIzvesita Acad, Nauk USSR,
Inorganic *Materials* (1981) 17, 1438-1444.

275. **K. Byrappa**, O.S. Philepenki and B.N. Litvin (**Impact Factor: 1**)
Synthesis and properties of RbNd (PO3)4,
Problems in Crystallography (1981) 3, 264-270.

276. **K. Byrappa** and G.I. Dorokhova (**Impact Factor: 1)**
Synthesis and X-ray Studies of CsR(PO3)4 crystals at high temperature, ***Problems in Crystallography*** (1981) 3, 157-160

277. B.N. Litvin and **K. Byrappa** (**Impact Factor: 1.71**)
Phases in Crystalization in the system Cs2O-Nd2O3-P2O5-H2O,
J. Crystal Growth (1981) 51, 470-476.

278. B.N. Litvin, **K. Byrappa** and L.G. Bebich (**Impact Factor: 9.2**)
Growth and properties of Monocrystals for Miniature Lasers, ***Progress in Crystal Growth and Characterization*** (1981) 3, 257-271.

List of Papers Presented/Proceedings at Conferences/Symposia/Invited/Plenary/Keynote Talk

➢ In Abroad

1. **K. Byrappa** (2016) **(Keynote Talk)**
Novel Hydrothermal Technology for Processing of Advanced Functional Materials
ISHA-2016 Conference, Tainan Taiwan, Jan17-20, 2016.

2. L. Kashinath, K. Namratha. K.Sudhakar**,** and **K. Byrappa**,
Hydrothermal synthesis and characterization of hybrid Al/ZnO-GO composite for significant photodegrdation of dyes
AIP Conference Proceedings 1728, 020627 2016.

3. G. Rajesha Shetty, B. Lakshmeesha Rao, Mahadeva Gowda, C. S. Shivananda, S. Asha, **K. Byrappa**, Y. Sangappa
The gamma irradiation effects on structural and optical properties of silk fibroin/HPMC blend films
AIP Conference Proceedings**,** 2016**.**

4. **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.

5. H. P. Shivaraju, S. Pallavi, K. Namratha, **K. Byrappa**, and H. Nagabhushana
"Sustainable Treatment of Industrial Wastewater by using Sunlight Responsive Hybrid Nanomaterials"
Conference Proceedings, Climate change Inconvenient Truth – Status and Way Forward 22.ICCC (ISBN -9789381437926) 2015.

6. **K. Byrappa** (2015) **(Keynote Talk)**
Novel solution processing of metal oxide – organic hybrid nanocrystals and their photocatalytic applications.
International Workshop on Graphene and C3N4-based Photocatalysts
Wuhan, China, Jun5-8, 2015.

7. 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.

8. 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.

9. Thejus Urs G, 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
ICMAT 2015&IUMRS –ICA 2015, Singapore, June-28th -July 3rd, 2015.

10. 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.

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

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

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

14. **K. Byrappa** and K. Namratha (2014) (**Keynote Talk**)
Solution Processing of *In situ* Surface Modified Metal Oxides Nanoparticles for

Biomedical Applications
CINBM International Workshop; Eco-friendly and Bio-compatible Nano-Materials, Seoul, Korea, Feb. 14, 2014.

15. **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.

16. **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

17. **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.

18. **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.

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

20. K. Namratha and **K. Byrappa**,
Controlled Hydrothermal and Solvothermal Synthesis 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,

21. **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.

22. K. Namratha, S. Suresha and **K. Byrappa**,
Hydrothermal Synthesis and Photocatalytic Studies of *in situ* surface modified Silver Doped ZnO Nanoparticles
Proc. IUMRS-ICA (2011**)** Taipei, Taiwan.

23. K. Namratha, **K. Byrappa,** A. Jamuna Bai and V. Ravishankar Rai,
Preparation, Characterization and Biological Activity of Selectively Doped ZnO Nanoparticles
Proc. IUMRS-ICA (2011) Taipei, Taiwan.

24. 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.

25. **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.

26. 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.

27. 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.

28. 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.

29. **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.

30. S. Srikantaswamy, K. Vivek, D. Shivakumar and **K. Byrappa**,
Biodegradation of Dyes in Aqueous Solution using Fungi,
IUMRS-ICA 2011, 12th IUMRS International Conference in Asia, Taipei, Taiwan, Sept.19-22, 2011.

31. 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.

32. **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.

33. **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.

34. **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.

35. **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.

36. **K. Byrappa, (Invited Talk)**
Crystallization of Polyscale Materials through Hydrothermal Routes International School of Crystallization, Granada Spain, May 24-28, 2010,

37. 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.

38. 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.

39. 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.

40. 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.

41. 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.

42. M.B. Nayan, K. Namratha and **K. Byrappa**, **(Poster Presentation)**
Hydrothermal Synthesis and Photocatalytic Properties of Pure and Doped ZnO Fine Crystals,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China, Jul. 27-29, 2010.

43. 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.

44. **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.

45. S. Ananda, B.R. Srilatha and **K. Byrappa**, (Poster presentation)
Extraction of Biomaterial from the Medicinal Plant: A Study of Antidiabetic Activity,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China, July 27-29, 2010.

46. Chandrashekar C.K. Basavalingu. B, T. Parvin, K.M. Lokanatha Rai, K. Soga and **K. Byrappa**
Synthesis, characterization an,d photocatalytic property of rare earth vanadates,
ISHA 2008, University of Nottingham, UK, Sept. 8-10, 2008.

47. Shivaraju H.P.T. Rungnappa, S. Pakamard, M.S. Vijayakumar, G.V.Narasimha Rao, C.Ranganathaiah and **K. Byrappa,**
Hydrothermal Coating and Properties of TiO2 Fine Crystals on Calcium Silicate Beads,
ISHA 2008, University of Nottingham, UK, Sept. 8-10, 2008.

48. Shahmoradi Behzad, C.P. Sajan, T. Parvin and **K. Byrappa,**
Hydrothermal Synthesis and Properties of Modified TiO2 Nanoparticles,
ISHA 2008, University of Nottingham, UK, Sep 8-10, 2008.

49. K. Soga, **K. Byrappa,**
Hydrothermal growth and characterization of rare earth vanadate polyscale crystals,
IUCr 2008, Osaka, Japan, Aug. 23-31, 2008.

50. **K. Byrappa,(Invited Talk)**
Hydrothermal synthsis of doped ZnO and its application in photodegradation of toxic amaranth dye,
IUCr 2008, Osaka, Japan, Aug. 23-31, 2008.

51. **K. Byrappa**, (**Keynote Talk**),
Hydrothermal Growth of Polyscale Rare Earth Vanadate Crystals 4th Asian Crystal Growth
Technology Conference, Sendai, Japan, May 21-25, 2008.

52. **K. Byrappa**, (**Keynote Talk**),
Novel Routes of Processing of Advanced Materials
International Symposium on Soft Solution Processing, Tokyo, Japan Mar 7-8, 2008.

53. **K. Byrappa**,
Hydrothermal Technology towards Green Processing of Advanced Materials,
SUPER GREEN 2007, November 28 – December 01, 2007, Seoul, South Korea.

54. **K. Byrappa**,
Growth of Diamond Nano Crystals,
International Conference on Crystal Growth (ICCG-15) Salt Lake City, USA, Aug 11-17, 2007.

55. Sridevi, **K. Byrappa** and T.Adschiri, Polyurethane
TiO2 composite and its photocatalytic properties,
The 2nd International Conference on Advances in petrochemicals and polymers (ICAPP2007) Bangkok, Thailand, Jun. 25-28, 2007.

56. **K. Byrappa**, T. Adschiri, **(Invited Talk)**,
Novel (Solutions, Liquid or Fluid) Routes of Advanced Nanomaterial Processing
STAC-JTMC, Shonan Village Center (Kanagawa), Japan, May 23-25, 2007.

57. **K. Byrappa**, C.K. Chandrashekar, K. Tanaka, S. Ohara and T. Adschiri, (**Invited Paper**)
Subcritical to Supercritical hydrothermal synthesis of rare earth vanadate crystals
1st International Symposium on Applications of Supercritical Fluids in Green Chemistry and Materials Science, Beijing, China, Mar. 1- 4, 2007.

58. **K. Byrappa**,
Attended the Conference and Chaired Microsymposium in Joint Conference of Asian Crystallographic Association and Crystallographic Society of Japan, Epochal, Tsukuba, Japan, Nov 20-23, 2006.

59. **K. Byrappa**, B. Basavalingu, P. Madhusudan, A.S. Dayananda, T. Adschiri and M.Yoshimura, Synthesis and characterization of nanoforms of carbon and yttrium aluminium perovskites (YAP) under supercritical conditions,
8th International Symposium on Supercritical Fluids, Kyoto, Japan, Nov. 5-8, 2006.

60. J.T. Joseph, S.L. Gaonkar, K.M.L. Rai, **K. Byrappa**,
Microwave assisted synthesis of thio esters and thioamides using potassium thiocyante as thionating agent
Joint 8th International Symposium on Hydrothermal Reactions 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

61. K. Jailakshmi, K.M.Lokanatha Rai, **K. Byrappa,**
Synthesis of benhydrol derivatives by metal imidozalen catalyzed electrophilic addition of aromatic aldehydes to hydrocarbon under solvothermal condition
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

62. B.Basavalingu, S. Vasuki, R. Somashekar, **K. Byrappa,**
Mild hydrothermal synthesis and characterization of silver sulphide
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

63. A.S. Dayananda, B. Basavalingu, K. Soga, **K. Byrappa**, M. Yoshimura, C.P. Sajan, Hydrothermal and Solvothermal Routes for the Synthesis of Carbon Composites by caging Zinc Oxide and Titanium Oxide in the nano forms of Carbon
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

64. S. Srikant Swamy, **K. Byrappa**, M. Yoshimura,
Hydrothermal preparation of photocatalytic material ZnO impregnated Activated Carbon using hyacinth for the degradation of toxic organic compounds in industrial,
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

65. K. Soga, **K. Byrappa**, J.R. Paramesh, H.N. Girish, B. Basavalingu,
Synthesis and Characterization of Rare Earth Phosphate Bio-Imaging Phosphors,
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

66. **K. Byrappa**, C.K. Chandrashekar, B. Basavalingu, K.M. Lokanatha Rai, K. Soga, Investigation of Yttrium Vanadate System under Hydrothermal and Solvothermal Conditions, Joint 8th International Symposium on Hydrothermal Reactions & 7th

International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

67. P. Madhusudan, B. Basavalingu, **K. Byrappa**, A.S. Dayananda, K. Soga, M. Yoshimura
Formation of Filamentous Carbon through Dissociation of Chromium Carbide under Hydrothermal Conditions,
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

68. B.V. Suresh Kumar, **K. Byrappa**, C. Ranganathaiah, K. Soga, C.P. Sajan, Aluminophosphate zeolites encapsulating clusters of TiO2 and ZnO under hydrothermal conditions,
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

69. A.K. Subramani, R. Dinesh, K.L.M. Rai, S. Ananda, N. Matsushita, **K. Byrappa**, M.Yoshimura,
Hydrothermal Preparation of Photocatalyst-Activated Carbon Composite (TiO2/ZnO-AC) and its Application,
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

70. B. Basavalingu, H.N. Girish, **K. Byrappa**, K. Soga,
Hydrothermal Synthesis and Characterization of Yttrium aluminium Perovskites (YAP)
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

71. **K. Byrappa**,
Novel Methods of Processing of Some Advanced Materials for Sustainable Technology, International Symposium on Sustainable Materials Engineering, Sendai, Japan, 4, Aug. 2006

72. **K. Byrappa**, C.P. Sajan, A.K. Subramani, K.M.L. Rai, S. Ananda, M. Yoshimura,
Novel Methods of Materials Synthesis for Advanced Oxidation Process and Degradation of Toxic Organics and Effluents,
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, Sendai, Japan, Aug. 2006.

73. **K. Byrappa**,
Green Processing of Advanced Materials,
International Workshop on Green Processing of Materials, August 03, 2006. Sendai, Japan. Novel methods of University of Science. Aug. 10, 2006.

74. **K. Byrappa**, B.V. Suresh Kumar, C. Ranganathaiah, R. Somashekar, R. Dinesh, K.M.L.Rai and S. Ananda
Hydrothermal Crystallization and Characterization of R^{3+}:AlPO4, Zeolites, where R= Ce, Pr and Nd.
XX Congress of the International Union of Crystallography, Congress and General Assembly, Florence, Aug. 23-31, 2005.

75. A.K. Subramani, **K. Byrappa**, R. Dinesh, K.M.L. Rai, S. Ananda, M. Yoshimura, Hydrothermal Preparation of TiO2: AC Composite Crystalline Particulates
XX Congress of the International Union of Crystallography, Congress and General, Assembly, Florence Aug 23-31, 2005.

76. B.Basavalingu, **K. Byrappa**, P. Madhusudan, A.S. Dayananda, S. Srikantaswamy, M.Yoshimura,
Synthesis of Nano Size Carbon Particles
ICMAT 2005 AND ICAM 2005, Singapore, Jul 3-8 2005.

77. **K. Byrappa**, A.K.Subramani, K.M. Lokanatha Rai, R. Dinesh and M.Yoshimura, Hydrothermal Preparation of Various Photocatalytic Materials and its Applications ICMAT 2005 AND ICAM 2005, Singapore, Jul 3-8 2005.

78. M. Yoshimura, Y. Gogotsi, **K. Byrappa**, W. Suchanek, H. Wang, T. Fujino, N. Kumagai,S.Swamy, B. Basavalingu, J. Libera, D. Rangappa, J. Calderon-Moreno and T. Watanabe
Hydrothermal Carbon: Synthesis and Reaction of Various Carbon Materials underHydrothermal Conditions
7th International Symposium on Hydrothermal Reactions, Changchun, China, Dec. 14-18, 2003.

79. **K. Byrappa**, A.K. Subramani, S. Ananda, K.M.L. Rai, B. Basavalingu andS. Srikantaswamy
Photocatalytic Degradation of Indigo Carmine Dye Using TiO2 Supported ActivatedCarbon and Commercial TiO2
7th International Symposium on Hydrothermal Reactions, Changchun, China, Dec. 14-18, 2003.

80. **K. Byrappa**, B. Nirmala, Ramaningaiah, K.M. Lokanatha Rai and M. Yoshimura
Hydrothermal Growth of Nd: YVO4 Crystals
7th International Symposium on Hydrothermal Reactions, Changchun, China, Dec. 14-18, 2003.

81. M. Suresh Babu, K.M. Lokanatha Rai, **K. Byrappa** and R.E. Riman
Synthesis of Aryl Ketones via Decarboxylation of Aromatic Acids under Solvothermal Conditions
7th International Symposium on Hydrothermal Reactions, Changchun, China, Dec 14-18, 2003.

82. **K. Byrappa**, A.K. Subramani, K.M.L. Rai, S. Ananda, B. Basavalingu and S. Srikantaswamy
Solar Light Induced Photodegradation of Pharmaceutical Effluent Using HydrothermallyImpregnated Activated Carbon,
7th International Symposium on Hydrothermal Reactions, Changchun, China, Dec. 14-18, 2003.

83. **K. Byrappa**, M.S. Vijaya Kumar, S. Ananda, K.M.L. Rai, B.V. Suresh Kumar
Hydrothermal Synthesis, Kinetic Study and Characterization of Some Selected Aluminophosphate Zeolites
7th International Symposium on Hydrothermal Reactions, Changchun, China, Dec.14-18, 2003.

84. **K. Byrappa**, R. Dinesh, K.M. Lokanatha Rai and M. Yoshimura
Photocatalytic Degradation of Nitroarenes using Activated Carbon/TiO2 Photocatalyst
IUMRS-ICAM 2003, Yokohama, Japan, Oct. 8-13, 2003.

85. **K. Byrappa**, A.K. Subramani, K.M. Lokanatha Rai, S. Srikantaswamy and M. Yoshimura
Treatment of Textile Effluent Using Photocatalytic ZnO Prepared Under Mild Hydrothermal Conditions
IUMRS-ICAM 2003, Yokohama, Japan, Oct. 8-13, 2003.

86. M.S. Vijaya Kumar, **K. Byrappa**, C. Ranganathaiah, S. Ananda and M. Yoshimura
Synthesis, Kinetics and Characterization of AlPO4 Zeolite
IUMRS-ICAM 2003, Yokohama, Japan, Oct. 8-13, 2003.

87. **K. Byrappa**, C-W.Chen, C.Oakes,W.Suchanek, P.Shuk, Y.Liu, M.Senna and R. E. Riman
Hydrothermal Synthesis of Hydroxyapatite Designer Particulates
5th New Jersey Symposium on Biomaterials Science, Somerset, New Jersey, USA, Nov. 9-10, 2000.

88. B.Basavalingu, J.M.C.Moreno, **K. Byrappa**, Y.Gogosti and M.Yoshimura
Dissociation of Silicon Carbide in the Presence of Organic Compounds under Hydrothermal Conditions
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, Tokyo, Japan, Dec.11-13, 2000.

89. **K. Byrappa**, B.V.Suresh Kumar, and K.M. Lokanath Rai
Hydrothermal Crystallization and Properties of AlPO4-11
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, Tokyo, Japan, Dec.11-13, 2000.

90. **K. Byrappa**, B.Nirmala, K.M. Lokanath Rai and M. Yoshimura
Crystal Growth of Nd: GdVO4 Single Crystals under Mild Hydrothermal Conditions
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, Tokyo, Japan, Dec.11-13, 2000.

91. **K. Byrappa**, R. Dinesh, K.M. Lokanath Rai, M. Yoshimura, and B. Basavalingu
Impregnated Activated Carbon as Photocatalyst for Organic Waste Water Treatment
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, Tokyo, Japan, Dec.11-13, 2000.

92. **K. Byrappa**, C.S. Oakes and R.E. Riman
Hydrothermal Preparation of Hydroxyapatite
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, Tokyo, Japan, Dec.11-13, 2000.

93. R.E. Riman, W.L. Suchanek, **K. Byrappa**, C.W. Chen, C.S. Oakes, M. Senna
Synthesis of Hydroxyapatite Designer Particulates, Hydrothermal Synthesis of hydroxyapatite Designer Particulates
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, Tokyo, Japan, Dec.11-13, 2000.

94. **K. Byrappa**, C.-W. Chen, C.S. Oakes, W.L. Suchanek, Y. Liu, M. Senna, R.E. Riman
5th New Jersey Symposium on Biomaterials, Somerset, N.J. Nov. 8-9, 2000.

95. **K. Byrappa**, K.M.Lokanatha Rai, R.Dinesh and M.Yoshimura
Photocatalytic Degradation of Phenols Using Hydrothermally Treated Activated Carbons
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, Kochi, Japan, Jul. 25-28, 2000.

96. B.V.Suresh Kumar, K.M.Lokanath Rai and **K. Byrappa**
Hydrothermal Synthesis and Characterization of Aluminophosphate Zeolites
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, Japan, Jul. 25-28, 2000.

97. **K. Byrappa**, B.Nirmala and K.M.Lokanatha Rai
Crystal Growth of Rare Earth Vanadate Laser Hosts and *In-Situ* Fabrication of their Crystal Morphology under Mild Hydrothermal Conditions
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, Japan, Jul. 25-28, 2000.

98. **K. Byrappa** and R.E. Riman (2000)
Hydrothermal Hydroxyapatite: crystallization fundamentals,
Proc. Joint 5th Int. Conf. Hydrothermal Reactions & 4th Int. Solvothermal Reactions, Japan, pp. 389-394.

99. **K. Byrappa**, K.M.Lokanatha Rai, R.Dinesha and M.Yoshimura
Photocatalytic Degradation of Nitroarenes using Impregnated Activated Carbons Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, Japan, July 25-28, 2000.

100. **K. Byrappa**, K.M.L. Rai, R. Dinesh and M. Yoshimura (2000)
Photocatalytic degradation of phenols using hydrothermally treated activated carbon, Proc. Joint ISHR and ICSTR, Japan pp. 565-568.

101. C.W. Chen, **K. Byrappa**, C.S. Oakes, W.L. Suchanek, M. Senna, K. Brown, K. TenHuisen,V.F. Janas and R.E. Riman (2000)
Design, synthesis and characterization of hydroxyapatite particulate,
Proc. Mateirals Research Society Symposium, Boston, November 2000.

102. **K. Byrappa** and R.E. Riman
Hydroxyapatite: Crystallization Fundamentals
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, Japan, Jul 25-28, 2000.

103. **K. Byrappa** and R.E. Riman
Preparation of Hydroxyapatite Designer Particulates
4th International Workshop on Soft Solution Processing of Inorganic Materials, Tokyo Institute of Technology, Tokyo, Japan, Feb. 28- Mar. 1, 2000.

104. **K. Byrappa**, W.L. Suchanek and R.E. Riman
Hydrothermal Synthesis of Hydroxyapatite Particulates
14th Annual Symposium of the Laboratory for Surface Modification, Rutgers University, USA, Feb. 13, 2000.

105. **K. Byrappa** and J.R.Paramesha
Crystal Growth and Characterization of Rare Earth Phosphates
International Rare Earth Conference, Fremantle, Australia, Nov. 18-22, 1998.

106. **K. Byrappa**, B.Nirmala and M.Yohsimura
Crystal Growth of Nd: RVO4 (Where R=Y, Gd) under Mild Hydrothermal Conditions.
International Rare Earth Conference, Fremantle, Australia, Nov. 18-22, 1998.

107. **K. Byrappa** Study of Hydrothermal Crystallization Processes in some Phosphate and Tungstate Systems
2nd International Conference on Solvothermal Reactions, Takamatsu, Japan, December 18-20, 1996.

108. **K. Byrappa**
Hydrothermal Growth of Crystals
International Summer School on Crystal Growth, Cracow, Poland, Sept. 4-14, 1994.

109. **K. Byrappa**
Berlinite, the Priezoelectric Crystal for the future
CIRIT Course, Barcelona, Spain. Jul. 10 – 12, 1990.
6th International Summer School on Crystal Growth, Zao, Japan. Aug. 26-31, 1989.

110. **K. Byrappa**, S.Srikantaswamy and K.Sangwal
Crystal Growth and Morphology of Berlinite
9th International Conference on Crystal Growth, Sendai, Japan, Aug. 20-25, 1989.

111. **K. Byrappa**, J.Shashidhara Prasad and S.Srikantaswamy
Growth and Properties of New Polymorphic Modification of AlPO4.
8th International Conference on Crystal Growth, York, UK, Jul. 13-18, 1986.

112. **K. Byrappa**, A.B.Kulkarni and G.S.Gopalakrishna
Synthesis and Characterization of New Superionic Triorthophosphates
6th International Conference on Crystal Growth, New York, UK, Jul.13-18, 1986.

113. **K. Byrappa**, J.Shashidhara Prasad and S.Srikantaswamy
Synthesis and Characterization of AlPO4: Nd
XVI International Rare Earth Research Conference, Hamilton Canada, Jun. 9-12, 1986.

114. **K. Byrappa**, A.B.Kulkarni and G.S.Gopalakrishna
Ionic Conductivity in Na2(R, Me) MP3O12 Crystal
XVI International Rare Earth Research Conference, Hamilton Canada, Jun. 9-12, 1986.

115. **K. Byrappa**, G.S.Gopalakrishna, A.B.Kulkarni and V.Venkatachalapathy
Synthesis and Characterization of Na2(R, Co) Zr (PO4)3 Crystals
6th International Congress on High-Tec. Ceramics, Milan, Italy, May 22-28, 1986.

116. **K. Byrappa**, A.B.Kulkarni and G.S.Gopalakrishna
Ionic Conductivity in Na2 (La, Co) ZrP3O12 Crystals
International Rare Earth Conference, IREC 85, Zurich, Switzerland, Mar. 3-8, 1985.

117. **K. Byrappa**, G.S.Gopalakrishna, A.B.Kulkarni and V.Venkatachalapathy
Hydrothermal Synthesis and Crystallization of Crystals of NASICON Analogues Superionic Conductors
IX European Crystallographic meeting Torino, Italy, Sept. 2-6, 1985.

118. **K. Byrappa**, A.B.Kulkarni and G.S.Gopalakrishna
Ionic Conductivity in Na2 (La, Al) ZrP3O12 Crystals
IX European Crystallographic meeting, Torino, Italy, Sept. 2-6, 1985.

119. **K. Byrappa** and B.N.Livin
Growth of a New Miniature Laser Material
European Conference on the Materials for Electronics, Czechoslavakia, Aug. 20-25, 1982.

120. **K. Byrappa**, B.N.Livin and A.A.Kiryukhin
Hydrothermal Synthesis of CsNdP4O12.
International Symposium on Hydrothermal Reactions, Tokyo, Japan, Mar. 22-26, 1982.

121. **K. Byrappa**, B.N.Litvin, N.N.Chudinova and N.V.Vinogradova
Growth and Crystal Chemistry of MNdP4O12 (where M = Na, Li, K, Rb, & Cs) Phosphates, Leningrad, USSR, Nov. 13-17, 1981.

122. **K. Byrappa**, I.I.Plyusnina and G.I.Dorokhova
X-ray and IR-spectral studies of CsREP4O12.
XII International Congress of Crystallography, Ottawa, Canada, Aug. 16-25, 1981.

123. **K. Byrappa**
Growth and Characterization of CsNdP4O12.
VI International Conference on Crystal Growth, Moscow, Sept. 10-16, 1980. International UNESCO School on Advances in Crytallography and Materials Sciecne International Centre for Crystallography, Erice, Italy, Apr. 14 – 24, 1980.

124. **K. Byrappa** and B.N. Litvin
Investigations of Phases and Crystallization in the System Cs2O-Nd2O3-P2O5-H2O
II European Conference on Crystal Growth, Lancaster, England, Sept. 10-15, 1979.

➢ In India

1. **K.Byrappa** (2017) **(Invited talk)**
Processing of metal oxide nanomaterials for Enviornment Safety
ISCA2017, Tirupathi, India, Jan 3-7, 2017**.**

2. **K.Byrappa** (2016) **(Plenary Talk)**
Synthesis and Characterization of Metal Oxides under Hydrothermal Conditions
ISCA 2016, Mysore, India, Jan 3-7, 2016**.**

3. Kashinath Lellala, K.Namratha and **K.Byrappa**
Microwave Assisted Synthesis and Charecterization of Nanostructure Zinc Oxide-Graphene Oxide and Photo degradation of Brilliant Blue
National Coneference on Emerging Trends of Advanced Functional Materials (NCAFM-2-15) Proceedings 3 (2016).

4. G. Rajesha Shetty, B. Lakshmeesha Rao, Mahadeva Gowda, C. S. Shivananda, S. Asha , **K. Byrappa**, Y. Sangappa
The gamma irradiation effects on structural and optical properties of silk fibroin/HPMC blend films
AIP Conference Proceedings, 2016.

5. **K. Byrappa** (2016) **(Distingushed Lecture)**
National Seminar on Frontiers in Science & Technology, Telangana Academy of Sciences, Hyderabad, June 23, 2016.

6. **K. Byrappa** (2015) **(Plenary Talk)**
Nanoscience, Nanotechnology and Advanced Materials
International Conference on Nanoscience, Nanotechnology and Advanced Materials (Nanos 2015), Gitam University, Visakhapatnam, Andhra Pradesh, December 14 – 17,

2015.

7. **K. Byrappa** and K. Namratha (**Invited Talk**)
Current Trends in the Hydrothermal Technology for the Processing of Functional Advanced Materials
6th Trilateral MRS Symposium (India, China and Singapore) Nov.23-25, 2015, IISER, Chandigarh, India.

8. **K. Byrappa** and K. Namratha (**Plenary Talk**)
Hydrothermal Growth and Properties of Metal Oxide Nanocrystals
19th NSCG 2015, March. 12, 2015, Vellore, India.

9. C. S. Vicas, K. Namratha and **K. Byrappa**
A Detailed Risk Assessment of Hydrothermally Synthesized Nanocrystals for Biomedical Usage 19th NSCG 2015, March. 14, 2015, Vellore, India.

10. D.S.Keerthana, K. Namratha and **K. Byrappa**
Fabrication of Biocompatible Magnetite Crystals under Mild Conditions
19th NSCG 2015, March. 14, 2015, Vellore, India.

11. P. Shubha, K. Namratha, C. S. Vicas and **K. Byrappa**
Chick Embryo Genotoxicity Analysis of the Green Medicine, Emblica officinalis Aqueous Extract and Its Action on Endodontic Pathogens
19th NSCG 2015, March. 13, 2015, Vellore, India.

12. Abdo Hezam, K. Namratha and **K. Byrappa**
Synthesis and Characterization of Highly Crystalline Zinc Oxide Nanoflowers via Surfactant-Assisted Hydrothermal Method
19th NSCG 2015, March. 13, 2015, Vellore, India.

13. **K. Byrappa** (2015) **(Plenary Talk)**
Crystal Growth
25th National Seminar on Crystal Growth and Epitaxy (NSCGE), Anna University, Chennai February 06 -07, 2015.

14. L. Kashinath, K. Namratha and **K. Byrappa**
Microwave Assisted Facile Hydrothermal Synthesis of ZnO-GO Nanocomposites and Photodegradation of Methylene Blue
ICRANN 2014, Dec 15-16, 2014, Vellore, India.

15. **K. Byrappa** and K.Namratha **(Invited Talk)**
Processing of Metal oxide Nanoparticles for Biomedical Applications from Nanotechnology Perspective
Nanoscience and Nanotechnology Conference, Feb. 21, 2014, India.

16. **K. Byrappa** (2014) **(Invited Talk)**
Physical and Mathematical Sciences
Andhra Pradesh Academy of Sciences Golden Jubilee Science Congress, November 13-14, 2014.

17. **K. Byrappa** (2014) **(Invited Talk)**
Nano materials
International Conference on Nano, Bio and Material Sciences, Osmania University,

Hyderabad, January 8-10, 2014.

18. Abdo Hezam, K. Namratha and **K. Byrappa (Invited Talk)**
Hydrothermal Synthesis of High Crystalline TiO2 without Calcination IICFC 2014, Dec. 29, 2014, India.

19. **K. Byrappa** and K.Namratha **(Invited Talk)**
Nano geoscience – from Geology to Technology
National seminar on current Trends of Research in Precambrian Geology and Vision - 2020, March. 20 – 21, 2013, India.

20. Shanthini Keerthana, K. Namratha, and **K. Byrappa**
Biocompatibility testing of Iron oxides synthesized under soft reduced hydrothermal conditions.
International conference of IUMRS-ICA, Dec. 16-20, 2013, India.

21. **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

22. **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.

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

24. **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.

25. **K. Byrappa** (2012) **(Invited Talk)**
Crystal Growth
International Conference on Current Trends and issues on Renewable Energy (CTIRE 2012), Mahatma Gandhi University, Nalgonda, January 30, 2012.

26. 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.

27. **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.

28. **K. Byrappa** and K. Namratha **(Invited Talk)**
40th National Seminar on Crystallography, 26-28, Nov. 2011, Hyderabad, India.

29. 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.

30. **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.

31. **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.

32. Parwin Tabasom and **K. Byrappa**
Hydrothermal Synthesis and Characterization of TiO2 for Photocatalytic Degradation of Brilliant Blue Dye
Advances in New Engineering Materials and Characterization (AMC-2010)
28.12.2010, Sullia, D.K., India.

33. **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.

34. K. Namratha and **K. Byrappa**
Synthesis and Characterization of ZnO under mild Hydrothermal Conditions
International Conference on Applications of Renewable and Sustainable Energy for Industry and Society (REIS 2010), December 16-18, 2010, Hyderabad, India.

35. 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.

36. **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.

37. 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.

38. 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

39. **K. Byrappa**, S.P. Madhusudan and B. Basavalingu
Hydrothermal Growth of High Melting Polyscale Crystals **(Invited Talk)**
National Symposium on the Growth of Detector Grade Single Crystals (NSGDSC-2009) Nov. 19-21, 2009, BARC, Mumbai, India.

40. H.P.Shivaraju, C.P.Sajan, **K. Byrappa**, T.Rungnapa, M.S.Vijay Kumar C.Ranganathaiah and T.N. Guru Row
Hydrothermal Synthesis and Characterization of TiO_2 Nanostructures on the Substrate and their Photocatalytic Performance
National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

41. C.P. Sajan, J Komal Kumar, S. Ananda, and **K. Byrappa** Hydrothermal synthesis, characterization and application of In:ZnO National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

42. Behzadshahmoradi, N. Sakamoto, **K. Byrappa**,
Synthesis, Characterization And Application Of Modified Nd:Zno For Treatment Of Pharmaceutical Effluents National Seminar On Crystallography-200, 11-13, Feb. 2009, India.

43. Shivaraju H.P, Touba Khosravi, **K. Byrappa**, T.Rungnapa, Vijay Kumar, C Ranganathaiah Hydrothermal Coating of ZnO onto Calcium Alumino Silicate Beads and its Photocatalytic Activity on Indigo Carmine Dye
National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

44. B.V.SureshKumar,H.R.Ravi,**K.Byrappa**,C. Ranganathaiah, Siddaramaiah,M.B.Shayan, K.S. Manjula
FTIR And Electrical Properties Of Polyurethane – Zeolitic Composites
National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

45. B. Basavalingu, H.N. Girish, B.V. Suresh Kumar, M.A. Shankara and **K. Byrappa**
Synthesis and Characterization of Rare Earth Doped Orthorhombic Yttrium Aluminum Perovskites (Yap)
38th National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

46. S. Ananda. Chaitanyalakshmi. G, Meenakshi. P. G., **K. Byrappa**
Synthesis Of Ru (Iii) Doped Ago Nanocomposites By Electrolytic Method And Degradation Study Of Indigocaramine Dye
38th National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

47. C.P. Sajan, S. Mantula, S. Ananda, and **K. Byrappa**
Application of Hydrothermally synthesized Sn:ZnO in the Photodegradation of Pharmaceutical Effluent
38th National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

48. H.R. Ravi, B.V.Suresh Kumar, C. Ranganathaiah, B.Basavalingu , D.RavannaSiddaiah and **K. Byrappa**
Studies on Electrical Properties of Rare Earth Doped Aluminophosphate Zeolites
38th National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

49. Chaitanya Lakshmi, S.Ananda, N.M.Made Gowda, **K. Byrappa**
Synthesis of Zn-Pyridoxine and Ru-Pyredoxine metal–Vitamin Crystals and Study of Biological Activity
38th National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

50. H. S. Dayananda, K. S. Lokesh, and **K. Byrappa**
Long-Term Leachate Studies and Micro-Structural Analysis of Stabilized Electroplating Sludge in Cement Matrix
38th National Seminar on Crystallography-200, 11-13, Feb. 2009, India.

51. **K. Byrappa**
Hydrothermal Green Processing of Advanced Powder Materials
International Conference on Recent Trends in Nanostructured Materials and Their Applications, 19-20, December, 2008, Hyderabad, India.

52. **K. Byrappa**.
Hydrothermal Processing of Advanced Nanomaterials
Internalational Confernece Advances on nanotechnology, 06 August, 2008, Raipur, India.

53. B. Basavalingu, **K. Byrappa**, P. Madhusudan, M. Yoshimura
Hydrothermal synthesis of sp^3 bonded carbon from β –SiC-organic compound system
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

54. T. Rungnapa, S. Pakamard, H.P. Shivaraju, C.P. Sajan, C. Ranganathaiah, S. Ananda and **K.Byrappa**
Titania coating on calcium aluminum silicate Beads under hydrothermal conditions for the degradation of toxic organics

55. K.S.Manjula, Siddaramaiah, **K. Byrappa**, T.Jeevananda and Joong- Hee Lee Investigations on Silk Fiber Reinforced Chain Extended PolyurethaneComposites. International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

56. K.S. Manjula, M.B. Shayan, C.P. Sajan, H.P. Shivaraju, Siddaramaiah and **K. Byrappa**
Preparation Of Metal Oxide:Polymer Composites, Characte-Rization And Applications
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

57. A.S. Dayananda, B.Basavalingu, **K. Byrappa**, K. Lal, K. Soga and M. Yoshimura
Hydrothermal coating of Ag_2S nanoparticles on CNT templates
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

58. H.P. Shivaraju, C.P. Sajan, M.B. Shayan, T. Rungnapa, S. Pakamard, S. Ananda and **K. Byrappa**
Hydrothermal Coating of Zno on Calcium Alumino-Silicate Beads and Their Application in the Photocatalytic Degradation of Amaranth Dye

International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

59. C.P. Sajan, H.S. Shivaraju, K.M. Lokanatha Rai, S. Ananda, M.B. Shayan, T. Tonthai, G.V.Narasimha Rao and **K. Byrappa**
Photocatalytic Degradation of Textile Effluent Using Hydrothermally Synthesized Mo: TiO2
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

60. C.K. Chandrashekar, B. Basavalingu, K.M. Lokanatha Rai, S. Ananda, T. Tonthai, K. Soga and **K. Byrappa**
Novel Methods Of Synthesis Of R^{3+}:Yvo4 (Where R=Nd,Er) Crystals
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

61. **K. Byrappa** and B. Basavalingu
Materials Processing Under Geomimitic Conditions
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India.

62. B. Basavalingu, **K. Byrappa**, P. Madhusudan, A.S. Dayananda, Krishan Lal and Y. Yoshimura
Crystalization of carbon nanoforms and nanocrystals from supercritical aqueous solutions
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, New Delhi.

63. **K. Byrappa**, A.K. Subramani, C.P. Sajan, K.M. Lokanatha Rai and S. Ananda
Hydrothermal preparation of TiO2, ZnO crystallite and their applications in photocatalytic degradation of DDT and Rhodamine B dye
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, New Delhi.

64. B. Basavalingu, H. N. Girish, **K. Byrappa** and Kohei Soga
Hydrothermal synthesis and characterization of orthorhombic yttrium aluminium Perovskites
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, New Delhi.

65. **K. Byrappa**, C.K. Chandrashekar, Ramningaiah and K.M. Lokanatha Rai
Crystal growth and morphology control of Nd; YVO4 under mild hydrothermal conditions
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, New Delhi.

66. **K. Byrappa**
Recent Trends in Advanced Materials Processing under Hydrothermal Conditions
National Workshop on Recent Advances in Structural Characterization of Materials, March 30, 2005, NPL, New Delhi.

67. **K. Byrappa**, C.K. Chandrashekar, Ramaningaiah and K.M.L. Rai
In-situ Fabrication of the Crystal Morphology of the Nd: YVO4 and Nd: GdVO4 under Hyrothermal Conditions

16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, Pune, India.

68. **K. Byrappa**, M.H. Sunitha, A.K. Subramani, S. Ananda, K.M.L. Rai, B. Basavalingu and Yoshimura M.
Surface Modification of TiO2 under Hydrothermal Conditions and its use in the Degradation of Textile Dyes
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, Pune, India.

69. S. Srikantaswamy, **K. Byrappa**, B. Basavalingu, P. Madhusudan, A. Dayananda and M. Yoshimura
Synthesis of Multiwalled Carbon Nanotubes under Hydrothermal Conditions
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, Pune, India.

70. **K. Byrappa**, B.V.S. Kumar, R. Somashekar, C. Ranganathaiah, R. Dinesh, K.M.L. Rai and S. Ananda
Hydrothermal Crystallization and Characterization of R +3: VPI-5 , where R=Ce, Pr and Nd
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, Pune, India.

71. **K. Byrappa**, P. Madhusudan, A.S. Dayananda and M. Yoshimura.
Synthesis of Carbon Nanoparticles under Hydrothermal Conditions
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, Pune, India.

72. **K. Byrappa**
Recent Trends in Hydrothermal Technology **(Invited Talk)**
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, Pune, India.

73. **K. Byrappa**, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, R. Dinesh, M.H. Sunitha, B.Basavalingu and M. Yoshimura
Photocatalysis: Fundamentals and Applications in the Organic Waste Destruction
Interantional Conference on Water and Health (WAH 05), January 22-23, 2005 Mysore, India.

74. S. Kousalya, **K. Byrappa** and C. Ranganathaiah
Industrial Effluent Action on Mineral Alteration in and Around Nanjangud, Karnataka, India
Interantional Conference on Water and Health (WAH 05), January 22-23, 2005 Mysore, India.

75. **K. Byrappa**, M.H. Sunitha, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, B. Basavalingu and M. Yoshimura
Photocatalytic Degradation and Kinetics of Brilliant Yellow Dye Using Hydrothermally Prepared ZnO Coated TiO2
Interantional Conference on Water and Health (WAH 05), January 22-23, 2005

Mysore, India

76. **K. Byrappa**
Recent Advances in Materials Processing Under Hydrothermal Conditions (Invited Paper)
Seminar on Soft Processing of Ceramic Materials, Ceramic Society of India, Bangalore Chapter, BHEL, Bangalore, January 15, 2005

77. C. Ranganathaiah, G.N. Kumaraswamy, H.B. Ravikumar, A.K. Subramani, M.S. Vijayakumar, M.K. Devaraju and **K. Byrappa**
Positron Annihilation Lifetime Spectroscopy for the Characterization of Porous Materials
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

78. **K. Byrappa**, M.H. Sunitha, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, B. Basavalingu and M. Yoshimura
Hydrothermal Preparation of Neodymium Coated Titanium Oxide and Its Application in the Photocatlytic Degradation of Procion Red Dye
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

79. P. Madhusudan, B. Basavalingu, **K. Byrappa**, A.S. Dayananda and H.N. Girish
Synthesis and Characterisation of Some Orthorhombic Carbonates under Hydrothermal Conditions 6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

80. **K. Byrappa**, Tienchai Tonthai, S. Kousalya and C. Ranganathaiah
Hydrothermal Treatment of Effluent Affected Polluted Soil of Nanjangud, Karnataka, India
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

81. S. Ananda, K.B. Sudharani, **K. Byrappa** B.V. Suresh Kumar
Kinetic Study of D-Glucose Oxidation by Sodium-N-Cholorobenzene Sulphonamide (Chloramice-B) with Zeolite (AlPO4-5) as Catalyst
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.72.

82. **K. Byrappa**, M.K. Devaraju, P. Madhusudan, A.S. Dayananda, B. Basavalingu, S. Ananda, K.M. Lokanatha Rai and H.N. Girish
Synthesis and Characterization of Calcium Alumino Silicate Hydrate
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

83. **K. Byrappa**, P. Madhusudan, B. Basavalingu and M.S. Vijayakumar
Solubility Studies of Hydrothermally Synthesised Calcite Crystals
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

84. S. Ananda, A.K. Subramani, **K. Byrappa** and K.M. Lokanatha Rai
Photocatalysis: Kinetics and Mechanism
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

85. E. Aparna, K.M. Lokanatha Rai, **K. Byrappa**, M. Sureshbabu, R.L. Jagadish and S.L.Gaonkar
Synthesis of Thioesters and Thioamides under Solvothermal Condition using Thiourea as Thionating Agent.
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

86. **K. Byrappa**, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, R. Dinesh, M.H. Sunitha, B.Basavalingu and K. Soga.
Impregnation of ZnO onto Activated Carbon Surface by Hydrothermal Technique and its Application.
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

87. **K. Byrappa**, Ramaningaiah and Kohei Soga
Crystal Growth and Morphology of Nd: YVO_4 under Hydrothermal Conditions.
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

88. Dinesh Rangappa, Takeshi Fujiwara, Tomoaki Watanabe, **K. Byrappa** and Masahiro Yoshimura.
Synthesis of Crystallized ABO_4 (A=Ba, Sr, Ca; B=Mo, W) Film by Chemical Reaction Method at Room Temperature.
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

89. **K. Byrappa**, M.K. Devaraju, M.S. Vijaya Kumar, B.V. Suresh Kumar, B. Basavalingu, S.Ananda, K. M. Lokanatha Rai and C.K. Chandrashekar
Synthesis and Characterization of Some Selected Microporous Aluminophosphate Zeolites
6th International Conference on Solvothermal Reactions, University of Mysore, Mysore, August 24-27, 2004.

90. **K. Byrappa**, M.S. Vijaya Kumar, B.V. Suresh Kumar, S. Ananda and K.M.L. Rai Hydrothermal Synthesis, Electrical Conductivity and Catalysis Reaction of Aluminophosphate Zeolites
International School on Crystal Growth of Technologically Important Electronic Materials, University of Mysore, Mysore, January 20-27, 2003.

91. **K. Byrappa**, B. Nirmala, K.M. Lokanatha Rai and S. Ananda
Crystal Growth Mechanism for Rare Earth Vanadates under Mild Hydrothermal Conditions International School on Crystal Growth of Technologically Important Electronic Materials, University of Mysore, Mysore, January 20-27, 2003.

92. **K. Byrappa**, A.K. Subramani, K.M.L. Rai, B. Basavalingu, S. Ananda and S. Srikantaswamy
Hydrothermal Impregnation of Designer Particulates on Activated Carbon
International School on Crystal Growth of Technologically Important Electronic Materials, University of Mysore, Mysore, January 20-27, 2003.

93. S. Srikanta Swamy, Masahiro Yoshimura, **K. Byrappa**, B. Basavalingu and A.K.Subramani
Stability and Behaviour of Carbon Nanotube under Hydrothermal Conditions
International School on Crystal Growth of Technologically Important Electronic Materials, University of Mysore, Mysore, January 20-27, 2003.

94. **K. Byrappa**
Hydrothermal Growth of Crystal
International School on Crystal Growth of Technologically Important Electronic Materials, University of Mysore, Mysore, India, January 20-27, 2003.

95. R. Dinesh, **K. Byrappa**, K. M. L. Rai, and M. Yoshimura
Impregnated Activated Photocatalyst for Aromatic Hydrocarbons
National Seminar on Environmental Hazards-Priorities and Protection in the 21st Century of Environmental Sciences, University of Mysore, India. 21 March 2001.

96. **K. Byrappa**, J.R. Paramesha and A.B. Kulkarni
Growth and Characterization of Rare Earth Phosphates
National Seminar on Electronic Materials and Applications, Gulbarga, January 18-20, 1999.

97. **K. Byrappa**, B. Nirmala and A.B. Kulkarni
Growth of Optoelectronic Crystals
National Seminar on Electronic Materials and Applications, Gulbarga, January 18-20, 1999.

98. **K. Byrappa**
Growth of Electronic Grade Crystals
National Seminar on Electronic Materials and Applications, Gulbarga, January 18-20, 1999.

99. **K. Byrappa** and B.V.Suresh Kumar
Hydrothermal Synthesis of VPI-5
National Seminar on Crystal Growth, Karaikudi, January 1998.

100. **K. Byrappa** and J.R.Paramesha
Crystal Growth of Rare Earth Phosphates
National Seminar on Crystal Growth, Karaikudi, January 1998.

101. **K. Byrappa** and B.V.Suresh Kumar
Hydrothermal Synthesis of Aluminophosphates Zeolites.
28^{th} National Seminar on Crystallography, Kottayam, Sept. 24-26, 1997.

102. A.B.Kulkarni, V.Rajeev, **K. Byrappa** and B.Sanjeeva Ravi Raj.
Impedance Spectroscopic Analysis of Some Superionic Pyrophosphates
DAE-BRNS Symposium on Electroceramics, Rajkot, March 13-15, 1996.

103. A.B.Kulkarni, V.Rajeev, **K. Byrappa** and B.Sanjeeva Ravi Raj.
Frequency Dependent Conductivity in Mixed Copper and Silver Oxide – a New Superionic Conductor
DAE-BRNS Symposium on Electroceramics, Rajkot, March 13-15, 1996.

104. A.B.Kulkarni, V.Rajeev, **K. Byrappa** and B.Sanjeeva Ravi Raj
Electro-Optic Phenomena in the New Superionic Pyrophosphate
DAE-BRNS Symposium on Electroceramics, Rajkot, March 13-15, 1996.

105. **K. Byrappa**, B.Sanjeeva Ravi Raj, V.Rajeev, V.J.Hanumesh, A.R. A.B.Kulkarni
Mixed Condensed Phosphates – New Solid ElectrolytesII National Conference on Solid State Ionics, Mardras, Feb. 15-17, 1996.

106. **K. Byrappa**, V.P.Jayantharaja, V.Rajeev, V.J.Hanumesh, A.R.Kulkarni & A.B.Kulkarni
Ionic Conductivity Studies in Lithium Borates from Li_2O-B_2O_3-H_2O System
II National Conference on Solid State Ionics, Mardras, Feb. 15-17, 1996.
AIXTRON Workshop on State of the Art MOCVD Technology Nov. 27th, 1995, Bangalore, India.

107. **K. Byrappa**, B.V.Umesh Dutta and K.Vasundhara
Ionic Conductivity and Crystallographic data for $HnaCoP_2O_7$ and $HnaMnP_2O_7$ Crystals
V National Seminar Crystal Growth, Nov. 18-20, 1995.

108. **K. Byrappa** and K.V.K.Shekar
Hydrothermal Synthesis, Crystal Stracture and Properties of $LiH_2B_5O_9$. V National Seminar Crystal Growth, Nov. 18-20, 1995.

109. Amita Jain and **K. Byrappa**
Crystal Growth and Characterization of $NaRE\ (WO4)_2$. V National Seminar Crystal Growth, Nov. 18-20, 1995.

110. **K. Byrappa**
Recent Progress in the Growth and Characterization of Na^+ Superionic Phosphates
V National Seminar Crystal Growth, Nov. 18-20, 1995.
X National Seminar of ISSG Material Science and Technology of Glass Nov. 15-17, 1995, BARC, Bombay. Workshop on Glass to Metal Seals, Nov. 13-14, 1995, BARC, Bombay.

111. **K. Byrappa**
Synthesis and Characterization of Aluminium Phosphate Zeolites
Colloquium on ZEOLITES, Kolhapur, October 10-11, 1995.

112. **K. Byrappa**
Hydrothermal Growth of Electronic Crystals
International School on Crystal Growth of Electronic Materials, Feb. 6-15, 1995, Madras. National Workshop on Project Vasundhara, 27th June, 1994, Bangalore.

113. **K. Byrappa**
Growth of Economic Minerals
National Symposium on Materials for Development, Warangal, Andhra Pradesh, Marck 13-14, 1993.

114. **K. Byrappa**
Recent Progress in the Na^+ Superionic Phosphates
National Workshop on Recent Advances in Solid State Sciences, Platinum Jubilee Lecture Series of the Osmania University, Hydrerabad, Feb. 15-16, 1993.

115. **K. Byrappa** and S.Srikantaswamy
Hydrothermal Synthesis and Characterization of Hexaferrites
XXIII National Seminar on Crystallography, Jaipur, Rajasthan, 23-25, March 1992, India.

116. A.Cardenas, J.Solans, **K. Byrappa** and K.V.K.Shekar
Structure of $LiH_2B_5O_9$.
XXIII National Seminar on Crystallography, Jaipur, Rajasthan, 23-25, March 1992, India.

117. **K. Byrappa**, B.V.Umesh Dutt and G.S.Gopalakrishna
Morphology of Some New Superionic Pyrophosphates
XXIII National Seminar on Crystallography, Jaipur, Rajasthan, 23-25, March 1992, India.

118. **K. Byrappa** and Amita Jain
Crystal Growth and Morphology of Rare Earth Phosphates
XXIII National Seminar on Crystallography, Jaipur, Rajasthan, 23-25, March 1992, India.

119. **K. Byrappa** and K.V.K.Shakar
Hydrothermal Synthesis, Crystal Structure and Properties of $Li_4H_2B_2O_6$.
XXIII National Seminar on Crystallography, Jaipur, Rajasthan, 23-25, March 1992, India.

120. **K. Byrappa**
Crystal Chemistry and Crystal Growth of Technology Materials-Silicates and Phosphates. XXIII National Seminar on Crystallography, Jaipur, Rajasthan, 23-25, March 1992.

121. **K. Byrappa**
Some Piezoelectric Minerals – Berlinite and Diamignite
Third INDO-Soviet Symposium on Experiment Mineralogy and Petrology.

122. **K. Byrappa** and S.Srikantaswamy
Synthesis of $AlPO_4$ – Ceramic Binders
Conference on Oxide Ceramics and Technology, Kolhapur, Feb. 21-23, 1991.

123. **K. Byrappa**, B.V.Umesh Dutta, A.B.Kulkarni and S.Gali
Growth and Characterization of $Na_2MZr(P_2O_7)_2$
XXII National Seminar on Crystal Growth. Calcutta, Dec. 26-28, 1990.

124. **K. Byrappa**, G.S.Gopalakrishna, A.B.Kulkarni and S.Gali
Synthesis and Characterization of $Na_2H_3Al(P_2O_7)_2$
XXII National Seminar on Crystal Growth. Calcutta, Dec. 26-28, 1990.

125. **K. Byrappa** and K.V.K.Shekar
Hydrothermal Synthesis and Characterization of Piezoelectric – $Li_2B_4O_7$ Crystals
XXII National Seminar on Crystal Growth. Calcutta, Dec. 26-28, 1990.

126. **K. Byrappa** and S.Srikantaswamy
The Effect of Mixed Solvents on the Solubility and Growth of Piezoelectric Berlinite XXII National Seminar on Crystal Growth. Calcutta, Dec. 26-28, 1990.

127. **K. Byrappa** and G.S.Srikantaswamy
Hydrothermal Synthesis of Hexaferrite Compounds
V National Seminar on Crystal Growth. Nov. 18-20, 1990, Madras.

128. **K. Byrappa**
Growth and Characterization of a New Group of Fast Ionic Conductors
XXI National Seminar on Crystallography, BARC, Bombay, 27-29, Dec. 1989.

129. **K. Byrappa** and S.Srikanataswamy
Thermodynamic Characteristic Berlinite Crystals
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989

130. **K. Byrappa**, R.R.Clements, S.Gali and A.B.Kulkarni
Hydrothermal Synthesis and Characterization of New Sodium Titanates
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989

131. **K. Byrappa**, S.Gali, G.S.Gopalakrishna and A.B.Kulkarni
Synthesis and Characterization of High Temperature modification of a New Pyrophosphate Superionic Conductor. $Na_2NiZr(P_2O_7)_2$
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989.

132. **K. Byrappa** and G.S.Gopalakrishna
Morphological aspects of Hydrothermal Grown Superionic Phosphates
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989.

133. S.K.Patil, A.H.Farooqui, A.B.Kulkarni and **K. Byrappa**
Explanation of Inductive Loops in the Impedance Spectra of some Superionics
National Seminar on Ferroelectrics, Dec. 1988, Tirupati.

134. S.K.Patil, A.H.Farooqui, A.B.Kulkarni, **K. Byrappa** and G.S.Gopalakrishna Equivalent Circuit Parameter Analysis for a New Superionic Conductor National Seminar on Ferroelectrics, Dec. 1988, Tirupati.

135. **K. Byrappa**
Artificial Growth of Industrial Minerals
Seminar on Industrial Mineral in National Economy, Dec. 14 – 19, 1988, Madras.

136. **K. Byrappa**
Growth of Industrial Minerals
National Seminar on Industrial Minerals in the National Economy, Anna University, Madras, Dec. 14-16, 1988.

137. **K. Byrappa**
Growth and Characterization of Piezoelectric Berlinite
National Seminar or Physics and Applications of New Materials, Indian Association of Cultivation of Sciences, Calcutta, March 22-24, 1988.
International Winter School on Crystal Growth, Feb. 24 to March 8, Madras.

138. **K.Byrappa**,A.B.Kulkarni,N.B.Desai, S.K.Patil, G.S.Gopalakrishna &S.Srikantaswamy
Frequency dependent Conductivity of a New Superionic Conductor – (NH4) Zr2V3O12
XXX Symposium on Solid State Physics. Dec. 27-31, 1987, BARC, Bombay.

139. A.B.Kulkarni, S.K.Patil, **K. Byrappa** and G.S.Gopalakrishna
Inclusion of Inductance in Equivalent Circuit Representation of Electrochemical System
XXX Solid State Physics Symposium, Dec. 27-31, 1987, Bombay.

140. **K. Byrappa**
Growth and Characterization of New Superionic Conductors (REVIEW)
XIX National Seminar on Crystallography, Dec. 18-20, 1987, Chenganacherry, Kerala.

141. **K. Byrappa** and S.Srikanataswamy
Thermal Expansion of Berlinite Crystals
XIX National Seminar on Crystallography, Dec. 18-20, 1987, Chenganacherry, Kerala.

142. **K. Byrappa**, S.Srikantaswamy and J.Shashidhara Prasad
Synthesis of Y: $AlPO_4$
3rd National Seminar on Crystal Growth, Feb. 16-19, 1987, Madras.

143. **K. Byrappa**, A.B.Kulkarni, N.B.Desai and S.Srikantaswamy
Growth and Characterization of $NH_4Zr_2V_3O_{12}$
3rd National Seminar on Crystal Growth, Feb. 16-19, 1987, Madras.

144. **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.

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

146. **K. Byrappa**, G.S.Gopalakrishna, D.S.Mahadevappa and J.Shashidhara Prasad
Thermal Expansion Study of Na2 (La,Al)ZrP3O12 Crystals
Solid State Physics Symposium, Pantnagar, Dec. 1986.

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

148. **K. Byrappa**
Hydrothermal Growth of Crystals.
National Summer School on Crystal Growth. May, 1986, Madras.

149. **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.

150. **K. Byrappa**,
Synthesis and Characterization of some New Super Ionic Conductors Na2(La, Me) ZrP3O12& NaMe2ZrP3O12 Crystals.
Symposium on Crystal Growth, Jan. 29-31, 1986, Calcutta, India.

151. **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.

152. **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.

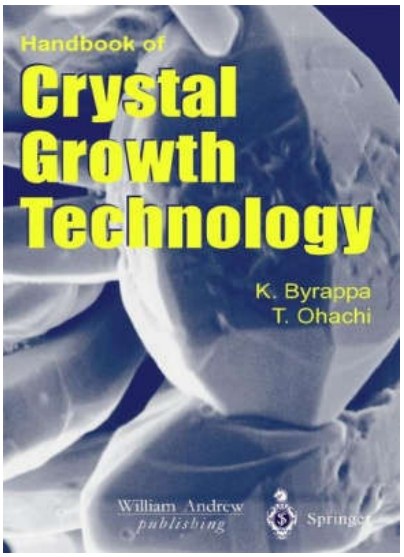
153. **K. Byrappa**, G.S.Gopalakrishna, D.S.Mahadevappa and J.Shashidhara Prasad
Thermal Expansion Study of $NaNi_2ZrP_3O_{12}$.
Workshop on Material Science, IIT, Kanpur, India, Feb. 28th to March 2nd, 1985.

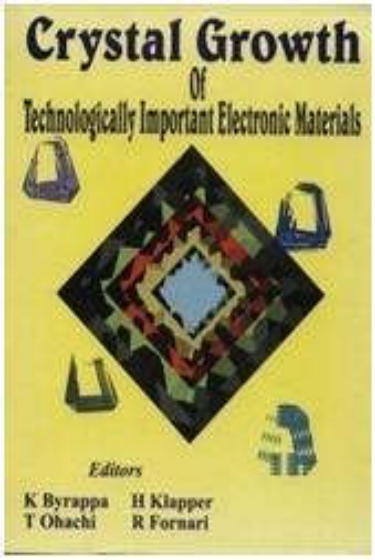
154. **K. Byrappa**, A.B.Kulkarni and G.S.Gopalakrishna
Hydrothermal Synthesis and Characterization of Na_2(La, Me) ZrP_3O_{12} Crystals
National Workshop on Material Science IIT, Kanpur, India Feb. 28 March 2, (1985) International School on Photovoltaics, Dept. of Non-Conventional Energy, Dec. 1984, Bangalore.

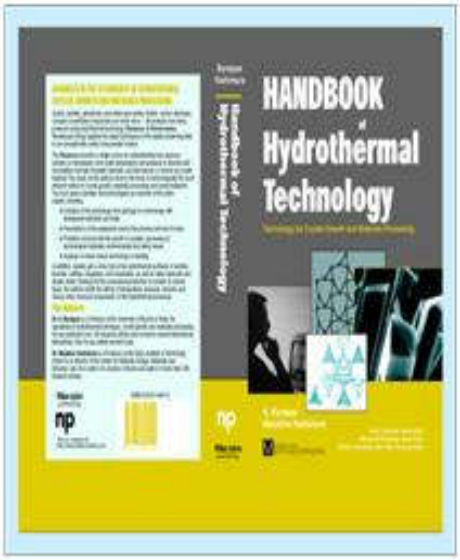
155. **K. Byrappa**, G.S.Gopalakrishna and A.B.Kulkarni
Hydrothermal Growth of NASICON Group of Fast Ionic Conductors
Solid State Symposium, BARC, Bombay, Dec. 22-26, 1984.

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

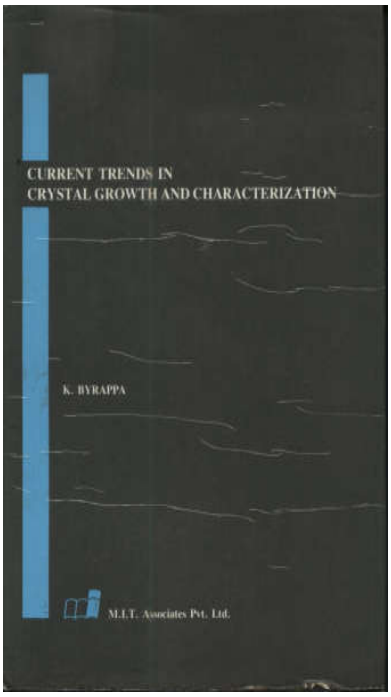
Coverpages of the Books published

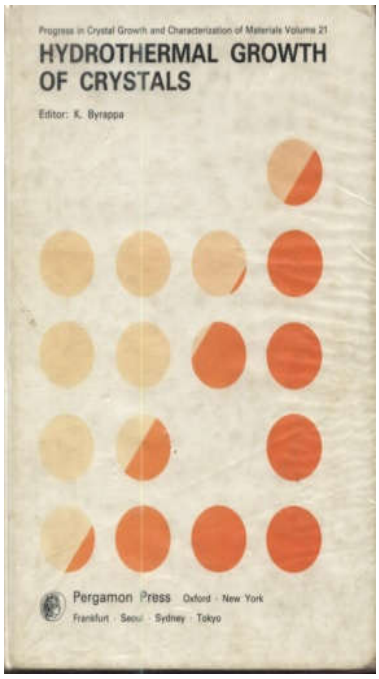


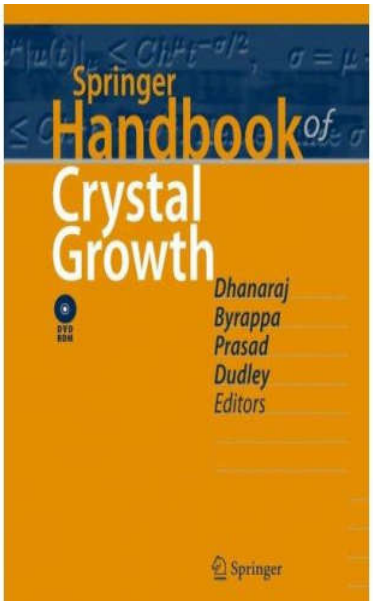




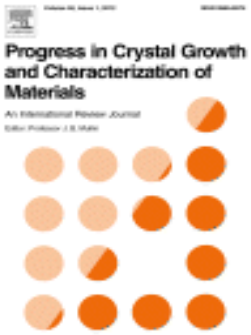

Materials
Research
Innovations


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


Progress in Crystal Growth and Characterization of Materials Volume 21
HYDROTHERMAL GROWTH
OF CRYSTALS
Editor: K. Byrappa
Pergamon Press Oxford · New York
Frankfurt · Seoul · Sydney · Tokyo



List of most impacted articles in the scientific society/Research highlights



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] (> 695 citations)

- 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 downloaded]

- 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 downloaded]

- M. Yoshimura and**K Byrappa** (2008) Hydrothermal Technology Past, Present and Future (Review) *J. Mater. Sci.,* Vol. 43(7), pp. 2085-2103, SA. (Impact Factor: 2.2)
  (Over 380 citations)

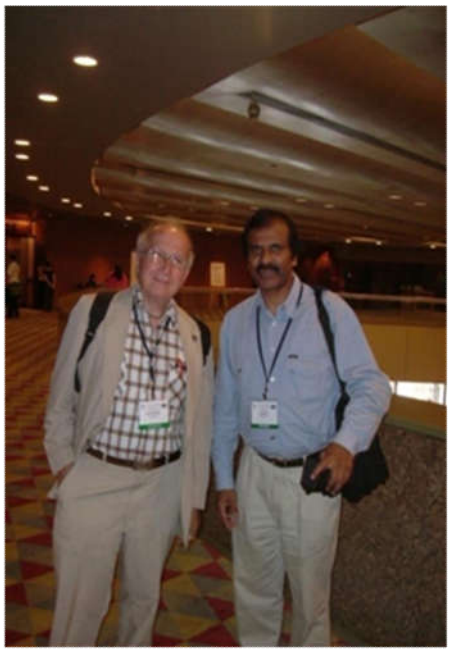
- W.L. Suchenak**, K Byrappa**, P. Shuk, R.E. Riman, K.S. Ten Huisen and V.F. Janas (2004) Preparation of magnesium-substituted hydroxyapatite powders by the mechanochemical- hydrothermal method *Biomaterials,* Vol. 25(19), pp. 4647-4657, USA. (Impact Factor: 8.51) (Over 325 citations)

- 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 380 citations)

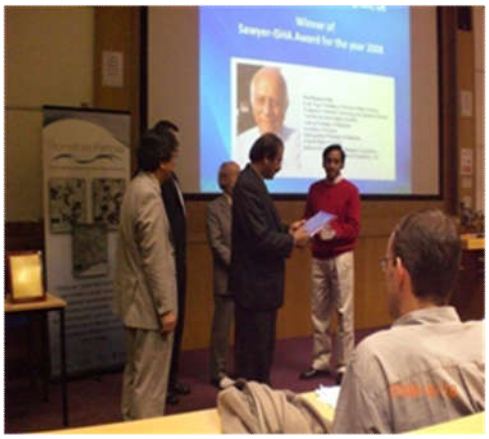
Prof.M. Yoshimura being felicitated in the presence of Prof.C.N.R. Rao during 6th International Conference on Solvothermal Reactions held in Mysore during August 2004

With Prof.C.N.R. Rao, of India during ICMAT-2015 in Singapore

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



With Ronald Hoffmann of Cornell University USA Nobel Laureate in Chemistry 1982



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

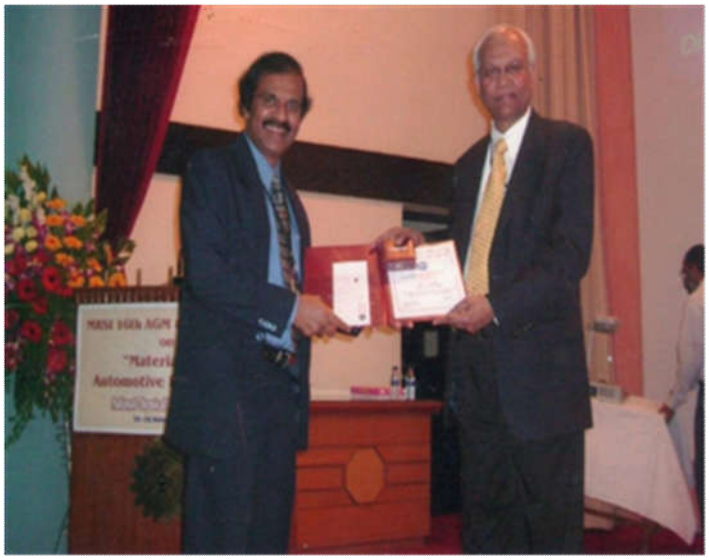
As a speaker with the members of the International Commission on Crystal Growth, during an International School held at the Abdus Kalam International Center for Theoretical Physics, in Trieste, Italy during April 2001.

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 receiving Materials Research Society of India Medal from Dr.R. Mashelkar, Director General, CSIR.