Prof. K. Byrappa
Ph.D. (Moscow), FRSC (London)
Fellow, World Academy of Ceramics
Fellow, and Secretary General, Asia Pacific Academy of Materials

Curriculum Vitae

Pro-Vice Chancellor

Adi Chunchanagiri University
B. G. Nagara – 571 448,
Nagamangala Taluk, Mandya District
Karnataka, INDIA
& **Visiting Professor,** Center for Materials Science and Technology, Vijnan Bhavan
University of Mysore, Manasagangothri, Mysuru – 570006, India.

Former Vice Chancellor

Mangalore University
Mangalagangothri-574199,
Mangalore,
Karnataka, INDIA

Address for Communication

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Vijayanagara 3rd Stage,
Mysore 570017,
Karnataka, India

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Education

- Ph.D. (Materials Science), Moscow State University, Russia, 1981.
- M.Sc. (Geology), University of Mysore, 1975 (**1st '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 (Nov.) Research Fellow, University of Mysore.
- 1977 (Dec.) – 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 – 2013 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) – 2018 (June) - Vice Chancellor at Mangalore University.
- 2018 (July) – Pro-Vice Chancellor and Dean, Research at Adichunchanagiri University.

Current Research Interests

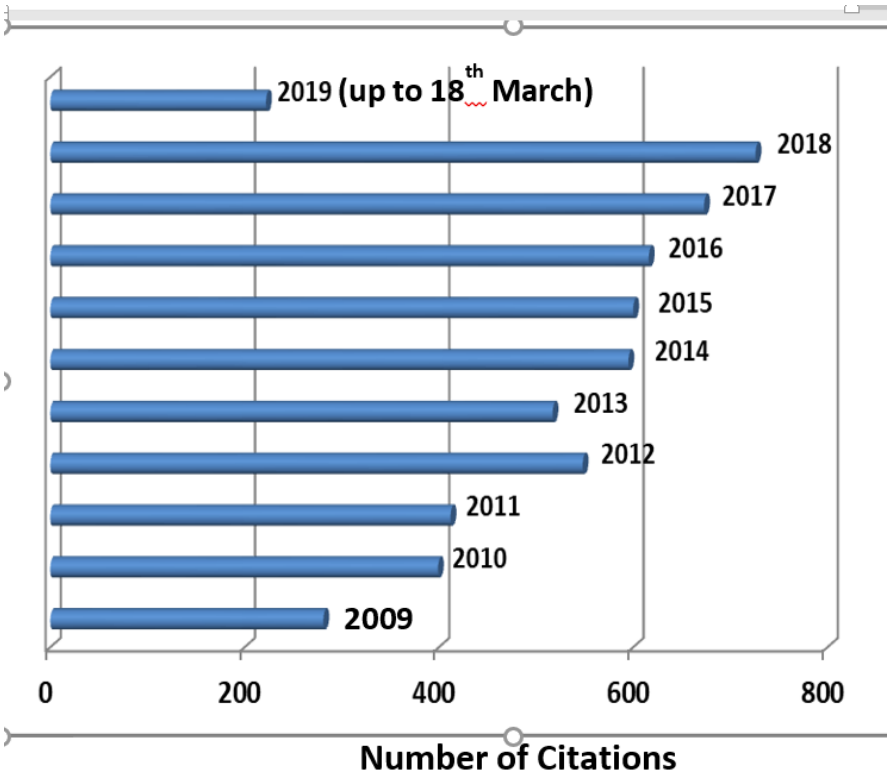
Nanotechnology, Nanomaterials, Nanoscience and Engineering, Metal oxides, Carbon, Photocatalysts, X-ray Crystallography, Crystal Growth, Molecular Spectroscopy, Experimental Mineralogy, New Materials, Bioceramics, Ceramic Coatings, Solid Electrolytes, Photonic Materials, Environmental Science and Engineering, Water Treatment, Zeolites, Thermodynamic Modelling,

Publications

Authored/ Co-authored/ In-preparation of around 370 research articles, 10 books / special editions and 32 major reviews/ book chapters. (List attached)

There is a progressive increase in the number of citations year-wise. For the year 2019, it is expected to touch 1000 as some important articles have been published in the high impact factor journals last few years.

Year-wise Citations of Prof.K. Byrappa's Publications (From 2009 to March 2019)



Languages Known

Sl. No.	Language	Spoken	Read	Write
1	English	Yes	Yes	Yes
2	Russian	Yes	Yes	Yes
3	Spanish	Yes	Yes	Yes
4	Japanese	Yes	Yes	Yes
5	Kannada	Yes	Yes	Yes
6	Hindi	Yes	Yes	Yes
7	Telugu	Yes	Yes	--
8	Tamil	Yes	--	--

Awards, Recognitions and Fellowships

- **FRSC, Elected Fellow,** Royal Society of Chemistry, London, UK (From September 2017)
- **Sir C.V. RAMAN BIRTH CENTENARY GOLD MEDAL** presented by the Hon'ble Prime Minister of India at the Indian Science Congress Association, 2017.
- Elected as Secretary General - Asia Pacific Academy of Materials. (2017 -)
- Academician - Asia Pacific Academy of Materials. (2017 -)
- Governing Council Member of Indian Science Congress Association, India. (2017 -)
- **Elected ACADEMICIAN**, World Academy of Ceramics, Italy from 2009 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.

Overseas Work Experience

- Worked for M/s Jhonson & Jhonson, New Jersy, USA - A popular medical company during 1999-2000, through Rutgers University, USA to develop bone replacement materials with medical doctors.

- Visiting Professor, Department of Structural Chemistry and Ceramics Technology, Tokyo Institute of Technology, Tokyo, Japan during 1996 to 2008.

- Visiting Scientist, Department of Ceramic Technology, College of Chemical Engineering, Rutgers University, New Jersey, USA.

- Visiting Professor, The Advanced Institute for Materials Research, Institute of Multidisciplinary Reasearch for Advanced Materials and Nanotechnology, Tohoku University, Sendai, Japan, during Spetember 2006 to August 2007 (one Year).

- Visititng Professor, Intitute of Materials Science of Barcelona (ICMAB), Spanish Academy of Sciences, Bellatera, Barcelona, Spain, from 1987 to 1994 (Every Year visited for two months).

- Visiting Professor, Clarendon Laboratory, Department of Physics, Oxford University, U.K., during August 1987.

- Visiting Professor, DSM, Geleen, Holland, July – Agust 1986.

- Visiting Professor, Department of Mineralogy, Ludwig Maximilan University, Munich, Germany during Oct. 2010.

- Visiting Professor, Seoul National University, Seoul, South Korea, Dec. 2007, Feb. 2014.

- Visiting Professor, Tokyo University of Science & Technology, Japan, Oct. 2003, Dec. 2005, Aug. 2006, July & Sept. 2007.

- Visiting Professor, Tokyo Metropolitan Institute of Technology, Japan, Oct. 2003, Dec. 2005.

- Visiting Professor, Institute of Mechanics, Chinese Academy of Science, Beijing, China, Dec. 2003.

- Visiting Professor, International Center for Theoretical Physics, Trieste, Italy, Mar. 2001.

- Visiting Professor, Korea Advanced Institute of Science and Technology, Taejon, South Korea, Dec. 1996.
- Visiting Professor, Jozef Stefan Institute, Ljubijana, Slovenia
- Visiting Professor, High Pressure Research Group, Dpto. Ingeniería Química y TMA, EII Sede Mergelina, Universidad de Valladolid, VALLADOLID - 47011 – SPAIN, May – June 2012.
- Laboratorio de Estudios Cristalográficos, Superior de Investigaciones Científicas / Universidad de Granada, Spain during May month 2008 to 2012.
- Visiting Professor, Department of Chemical Engineering, Seoul National University, Seoul, South Korea. During Dec. 2008.
- New initiatives as Pro-Vice Chancellor, Adichunchanagiri University, B. G. Nagara from July 2018

New Initiatives as Vice-Chancellor at Mangalore University

- University Anthem was introduced
- University documentary videos prepared
- Internationalization 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.
- Total campus high security surveillence system.
- Constitution of Research Promotion and Consultancy cell (RCPC).
- Upgrading of the University hostels.
- 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 students.
- Laptops to all the regular teachers.
- Open House programme to showcase 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
- Creation of landmark Sir C.V. Raman circle.
- Upgradation of science laboratories for students as Modular Laboratories.
- Best Teacher award to motivate teachers.
- Computerisation of offices for e-Governance.
- Starting M.Ed. courses
- Starting Medical Physics, M.Sc. course which makes Mangalore University as the 3rd University in the Country.
- University gift shop opened
- Starting new PG courses on the Mangalagangothri campus, Jnana Kaveri campus and University Colleges.
- 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 have been established to expose the students to the rural problems, planning and development.
- Efforts for the 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 Jnana Kaveri Campus, 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 of the Mangalore University in the Karnataka State.
- Starting of Vocational courses and Diploma courses.
- Introducing Masters course Dissertation compulsory.
- 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.
- Successfull in getting a special sports of Rs. 2.40 crores from UGC.
- Successfull in getting a Heritage status for Ravindra Kala Bhavan, University College from the UGC with a grant of Rs. 1.93 crores.
- Successfull in getting the status College with Potential for Excellence from UGC for both constituent colleges of the University in Mangalore and Madikeri.
- Started two new colleges: i) University First Grade College, Mangalagangotri, mainly for foreign students. ii) University Evening college at Hampana Katte, Mangalore

Responsibilities

- Teaching Post-graduate 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

- Elected Sectional President of Material Sciences Section, ISCA 2018-2019.

- Elected as Secaratary General - Asia Pacefic Academy of Materials. (2017 -)
- Academician - Asia Pacefic Academy of Materials. (2017 -)
- Governing Council Member of Indian Science Congress Association, India. (2017 -)
- Member, Association of All India Vice Chancellors.
- Chairman, Committee for Framing Regulations for Ph.D. and M.Phil. Programs.
- Indian National Sciences Academy – Commitee Member for Crystallography Section. (2006 -)
- Member, IUCr Commission on Inorganic and Mineral Structures (2014 -)
- Recognized as Ph.D., guide in Mysore University for Physics, Chemistry, Microbiology, Biotechnology, Materials Science, Earth Science, and Environmental Science.
- Recognized as Ph.D., guide in Mangalore University for Physics, Chemistry, Microbiology, Materials Science.
- 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: 3.304)
- 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
- Expert, Dept. of Science and Technology, Govt. of India, National Program on Nanomaterials for Ferro-Fluid Flow, (2012 -2015)
- 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-)
- Editor, ISHA – Newsletter (2007 -).
- 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
- 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 (During 2004-2007).
- Chairman, Board of Studies in Earth Science (from 2013-2014).
- Chairman, Board of Studies in Materials Science, University of Mysore (from 2011 to June 2014).
- Expert Member of the Dept. of Science and Technology, Govt. of India, on the National Program on Ferro-Fluid Technology.
- Expert Member of the Vision University of Mysore 2025.
- Academic Council, University of Mysore, India (1998-2001)
- 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 Crystal Growth and Hydrothermal Research, Presented Plenary, Keynote and Invited Papers and Chaired Sessions.

- Delivered SPECIAL LECTURES in National & 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 & Institutes in the world to deliver lectures. Given below are some selected Universities and Institutes:

- National University, Seoul, South Korea, Dec. 2007, Feb. 2014

- Mohidol University, Thailand, Oct. 2003, July 2013.

- Tohoku University, Sendai, Japan, Sept. 1989, Nov. 2005, Aug. 2006, Oct. 2006 to Sept. 2007, Oct. 2008.

- Tokyo Institute of Technology, Japan, Dec. 1996, Sept. 1997 to Jan. 1998, April 1999, Dec. 1999, Jul. 2000, Jan. 2001, Oct. 2003, Dec. 2005, Jan., May, July, Aug., Sept. 2007, April 2008.

- Tokyo University of Science & Technology, Japan Oct. 2003, Dec. 2005, Aug. 2006, July & Sept. 2007.

- Multimedia University, Kuala Lumpur, Malaysia, Dec. 2005

- Tokyo Metropolitan Institute of Technology, Japan, Oct. 2003, Dec. 2005

- University of Florence, Italy, Aug. 2005.

- National University of Singapore, Singapore, July 2005.

- Ettore Majorana International Center for Crystallography, Erice, Sicily, Italy, Apr. 1980, June 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, March 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, July 1990, Dec. 1994.
- Autonomous University of Barcelona, Bella Terra, Spain, Oct. to Dec. 1994
- Moscow State University, Moscow, Russia, 1977 to 1982, July to Sept. 1991, Sept to Oct. 1994.
- University of Barcelona, Barcelona, Spain, May to July 1987, July to Aug. 1990, Oct to Dec. 1994.
- Jegolian University, Krakow, Poland, Sept. 1994.
- Yamanashi University, Kofu, Japan, Sept. 1989.
- Instituteof Crystallography, Moscow, Russia, 1978 to 1982.
- Institute of General and Inorganic Chemistry, Moscow, Russia, 1978 to 1982.
- Lebedeev Institute of Rare Earth Materials, Moscow, Russia, 1980 to 1981.
- DSM, Geleen, Holland, June to July 1986.
- Institute of Physics, Moscow, Russia, 1978 to 1982
- Lebedeev Institute of Physics, Moscow, Russia, 1978 to 1982
- Universidad de Torino, Italy, June 1986

General

- 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 of Mysore's *h*-index, TOP papers are my publications with highest number of citations.
- Citations of around 6800.
- Delivers Lectures 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 in the Moscow State University, Moscow, Russia.
- Actively participated in the Cultural Activities in the University of Mysore, India during student days.
- Delivered Public Lectures on Radio on popular topics of Science, Mineral and Rock Formation in Nature, Crystal Growth, and Mineral Synthesis.
- 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 studentsin the subject through closer interaction and popularization of 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 and several Indian languages like Telagu, Tamil and Hindi.

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

Books/ Special Editions

- **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.**

- **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).*

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

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

- **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).*

- **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).*

- 'KUVEMPU PUNARMANANA': Book on Fine Art' Chief Editors: A. Malagatti and **K. Byrappa**. Publishers: Mysore University Prasararanga, Mysore (2004).

- **K. Byrappa** *(India)* andT. Ohachi *(Japan)* 'CRYSTAL GROWTH TECHNOLOGY' Eds. Publishers: Springer-Verlag, Germany and William Andrew, New York, USA (2003)

- **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)*

- 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).

- **K. Byrappa** 'CURRENT TRENDSIN CRYSTAL GROWTH AND CHARACTERIZATION' *M. I. T. Publishers, (1991).*

- **K. Byrappa** (India) 'HYDROTHERMAL GROWTH OFCRYSTALS' Publishers: Elsevier Pergamon Press, Oxford, UK (1990)

Book Chapters

Engineering and Technology

1.	**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)
2.	L. K. Kashinath, K. Namratha, **K. Byrappa** (2015) Hydrothermal Synthesis and Characterization of High Quality Graphene Oxide for Efficient Photodegradation of Dyes. ICSEMF-2015, 140-145
3.	**K. Byrappa** (2005) Hydrothermal processing of advanced materials, In: *Kirk-Othmer Encyclopedia of Chemical Technology* John Wiley, U. K.
4.	**K. Byrappa**, M. S. Vijaya Kumar, B. V. Suresh Kumar, S. Ananda and K. M. L. Rai, (2003) Hydrothermal synthesis, electrical conductivity and catalysisreaction of Alumino-phosphatezeolites In: Crystal Growth of Technologically Important Electronic Materials, Eds: **K. Byrappa**, T. Ohachi, H. Klapperand R. Fornari, Allied Publishers, New Delhi, India, pp. 311-317.
5.	**K. Byrappa**, Ramaningaiah and B. Basavalingu (2003) Crystal Growth of Nd: YVO_4 using hydrothermal techniqueat 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.
6.	**K. Byrappa**, B. Nirmala, K. M. L. Raiand 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.
7.	**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. Klapperand R. Fornari, Allied Publishers, New Delhi, India, pp. 291-297.
8.	S. SrikantaSwamy, 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.
9.	**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.
10.	**K. Byrappa**, J. R. Paramesha, S. Anandaand K. M. Lokanatha Rai (2003) Crystal growth and reaction mechanism of rareearth 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.
11.	**K. Byrappa**, B. Nirmala, K. M. Lokanatha Rai and M. Yoshimura (2003) Crystal Growth, Size and Morphology Control of Nd: RVO_4 under Hydrothermal Conditions, In: *Crystal Growth Technology*, Eds. **K. Byrappa** and T. Ohachi, pp. 335-364 William Andrew/ Springer, Germany.

12.	B. Basavalingu, **K. Byrappa** and M. Yoshimura (2002) An Experimental study of HighTemperature and High Pressure synthesis of sp^3 bonded carbon In: Advanced in High Pressure Science andT echnology; Eds: A. K. Bandyopadhyay, D. Varandani and Krishan L et al, Proc. 2nd International Pressure Metrology Workshop and International Conferenceon High Pressure Science and Technology, Published by National Physical Laboratory, New Delhi, pp. 417-421.
13.	**K. Byrappa** (2001) Hydrothermal Growth In: Encyclopedia of Materials Science and Technology, Ed: O. Mahajan, USA, Elsevier Science Publisher, UKpp. 3982-3989.
14.	**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.
15.	**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.
16.	L. Kashinath, K. Namratha, **K. Byrappa,** Hydrothermal Synthesis and Characterization of hybrid ZnS-GO nanocomposites for photodegradation of dyes, Advanced Nanomaterials: Synthesis and Applications, Blooms Burry, ISBN NO: 978-83-85436-74-1, (2015) 260-264.
17.	**K. Byrappa**, Hydrothermal processing, Kirk-Othmer Encyclopedia of Chemical Technology, 2000

Medicinal and Life Sciences

Sl. No.	Titles
1.	T. Adschiri and **K. Byrappa.** (2009) Supercritical Hydrothermal Synthesis of Organic-Inorganic Hybrid Nanoparticles, In: *Nanohybridization of Organic-InorganicMaterials*, Eds: Atsushi Muramatsu, Publishers: Springer-Verlag, Germany, 217-250.

Applied Sciences

Sl. No.	Titles
1.	Chandrashekar B.N., Smitha A.S, Jagdesh. B.K, Namratha. K, Srikantaswamy. S. Kumara swamy. B.E, Sadashivani K. **K. Byrappa**, Cheng. C Functional Nanomaterials for Transparent Electrodes Smart Polymer Nanocomposites, Springer International Publishing AG, 2017.
2.	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**.**
3.	**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, Second Edition, 2, 535–575.
4.	B. Shahmoradi, **K. Byrappa**, Afshin Maleki (2013) Hydrothermally modification of metal oxide doped TiO_2 nanomaterials, In: Handbook of Nanomaterials, Publishers: Nova Publishers, N. Y., and USA.
5.	K. Byrappa, Hydrothermal growth of polyscale crystals, In: Springer Handbook of Crystal Growth, Eds: G. Dhanaraj, **K. Byrappa**, M. Dudleyand V. Prasad, Publishers: Springer-Verlag, Germany.
6.	**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.
7.	**K. Byrappa** Hydrothermal Growth of Crystals, In: Handbook of Crystal Growth, Vol. 2, Ed. DTJ Hurle (North- Holland Publishers,) (1994) l. 2, 441-539.

8.	**K. Byrappa** and G. S. Gopalakrishna (1991) Morphological aspects of hydrothermally growns upper ionic phosphates, In: ―Current Trends in Crystal Growth and Characterization‖ Ed: **K. Byrappa** (MIT Publishers) p. 267.
9.	**K. Byrappa**, R. Rodriguez-Clemente, Salvador Galiand 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** (MITPublishers) p. 285.
10.	**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.
11.	**K. Byrappa** (1990) Growth and Characterization of some New Superionic Phosphates (REVEIW) In: ―Transaction of the Materials Research Societyof Japan‘, Ed: Shigeyuki Somiya (Japan) (Elsevier Applied Science Publishers, U.K) pp. 433-456.
12.	**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.
13.	**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.
14.	G. Dhanaraj, **K. Byrappa** V.V Prasad, M. Dudley, Crystal Growth Techniques and Characterization: an Overview, Springer Handbook of Crystal Growth,**2010, 3-16**

Representation on National and International Events Committees

As a Convenor or Organizer

- Organized recently during **March 18-20, 2019** an **International Conference on Advanced Functional Materials for Energy, Environment and Health Care**, at the University of Mysore, Mysore, with an international participation, and a total of about 650 participants registered.
- 106th Indian Science Congress on Future India: Science and Technology at Lovely Professional University, Phagwara, Punjab, India, during 4-7Jan 2019.
- 38th National Seminaron Crystallography at University of Mysore, Mysore, India, 11-13, Feb. 2009.
- FOUR numbers of Orientation Programs for Post Graduate and Under Graduate Teaching Staff, on recent developments in Teaching Higher Education, during 2004-2006.
- THREE numbers of UGC Sponsored Workshop for College Principals, on Higher Education Systemin 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, Jan. 27-30, 2005, University of Mysore, Mysore.
- 6thInternational 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), Jan. 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 Seminaron Crystal Growth, August 14-16, 1989, Universty of Mysore, India.

As Chair in: Symposiain International Conferences

To promote Science and Technology, I organize often National and International events like Conferrences / Seminars/ Suymposia / Workshops, both within and outside India

- Chair, Symposium on **Joint IUMRS-ICMAT 2019, Marina Bay Sands, Singapore**, June 23-28, 2019.

- 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,** June18-23, 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 - 17, 2013, Austin, USA.

- Chair, Symposium on **Nanotechnology for Bio/ Medical Materials IUMRS-ICA-2011, 12th International Conference** in Asia, Sept. 19 to22, 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 - 28, 2011, Beijing, China.

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

- Chair, Microsymposium on **Hydrothermal Growth of Crystals, 21st Congress and General Assembly of International Union of Crystallography,** Aug. 21 - 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	AmountRs. 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
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
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	AmountRs. in lakhs
1.	University with Potential for Excellence (UPE)	University Grants Commission-Project	2012-2018	6500. 00
2.	Processing, Characterization and Application of Advanced Functional Nanomaterials	Centre with Potential for Excellence in a Particular Area (CPEPA) UGC-Project	2012-2018	550. 00

Patents/ Technology transfer/ Product develoopment

- **Patent filed for Registration in India:**
  Title of the patent - SYNTHESIS OF METAL OXIDE NANOSTRUCTURES WITH ENHANCED PHOTOCATALYTIC ACTIVITY
  Inventors: Abdo Hezam, K Namratha and K. Byrappa, University of Mysore, India.

  This patent would be registered in USA also, because of its novelty, and the process has already started for American Patent registration.

- 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 (entire technology) of my work carried out by me at Rutgers University have been transferred to M/s Johnson & Johnson Health Care Systems Inc. New Jersey, USA.
- Prof. Byrappa has developed the following advanced functional materials: metal oxide based food packaging biopolymer; antibacterial silk fibers, nanoparticle treated silk cacoons for higher yield of silk production; instant green synthesis of hotocatalytic metal oxide for enhanced photocatalytic activity. The commercialization of these products with appropriate government agencies is under progress.

List of Publications

Engineering and Technology

1. Abdo Hezam, K. Namratha, Q.A. Drmosh, T.R. Lakshmeesha, S. Srikantaswamy, and **K. Byrappa** The correlation among morphology, oxygen vacancies and properties of ZnO nanoflowers, ***Journal of Materials Science: Materials in Electronics*****, 2018, 29 (16), 13551–13560. (Impact Factor – 2.09)**

2. Abdo Hezam, K Namratha, QA Drmosh, ZH Yamani, K Byrappa Synthesis of heterostructured Bi2O3–CeO2–ZnO photocatalyst with enhanced sunlight photocatalytic activity, ***Ceramics International*** **2018, 43 (6), 5292-5301 (Impact Factor – 3.05)**

3. Alkathy, Mahmoud S., Abdo Hezam, K.S.D. Manoja, Jingwei Wang, Chun Cheng, **K. Byrappa**, and KC James Raju Effect of sintering temperature on structural, electrical, and ferroelectric properties of lanthanum and sodium co-substituted barium titanate ceramics, ***Journal of Alloys and Compounds,*** **2018, 762, 49-61. (Impact Factor – 3.779)**

4. Mina Zare, K. Namratha, **K. Byrappa (Impact Factor 5. 327)** Green Synthesis and characterization of ZnO- Ag Nanocomposite by *Thymus vulgaris*, ***International Journal of Scientific Research in Science and Technology*****, 2018,** 4 (5), 1636-1640.

5. K. Jagadish, L. Shruthi, M.R. Abhilash, **K. Byrappa** and S. Srikantaswamy, Hydrothermal Synthesis of Multiwall Carbon Nanotubes using Polystyrene: Purification and Characterization, ***International Journal for Research in Applied Science & Engineering Technology*****, 2018, 6 (2), 2085-2089.**

6. Abdo Hezam., Namratha K., Drmosh Q.A., Chandrashekar B. N., Jayaprakash, G.K., Chun Cheng, Srikanta Swamy S., **K. Byrappa.** Electronocally Semitransparent ZnO Nano rods with Superior Electron Transport ability for DSSCs and Solar photocatalysis ***Ceramics International,*** **2018, 44 (6): 7202-7208. (Impact Factor – 3.05)**

7. K. Namratha, **K. Byrappa,** B**.** Deepthi. Photo decolorization of Cibacron brilliant yellow dye using ZnO photocatalyst under sunlight ***Progress in Petrochemical Science*****, 2018, 1, (1), 1-4.**

8. Kabiru B., Sarojini B.K., Narayana B., Anjali R., **K. Byrappa. (Impact Factor 4. 811)** A study on adsorption dehaviour of newly synthesized banana pseudo-stem derived superabsorbent hydrogels for cationic and anionic dye removal from effluents. ***Carbohydrate Polymers*****, 2018, 181, 605-615.**

9. Mina Zare K, Namratha K, **Byrappa K**, Surendra D.M., Yallappa S., Basavaraj Hungund Surfactant Assisted Solvothermal Synthesis of ZnO Nanoparticles and Study of their Antimicrobial and Antioxidant Properties.
Journal of Materials Science & Technology, **2018, 34 (6): 1035-1043 (Impact Factor 3. 609).**

10. Abdo Hezam, K. Namratha, Q.A. Drmosh, Bananakere Nanjegowda Chandrashekar, Kishor Kumar Sadasivuni, Z.H. Yamani, Chun Cheng, **K. Byrappa** Heterogeneous growth mechanism of ZnO nanostructures and the effects of their morphology on optical and photocatalytic properties, ***Cryst. Eng. Comm.*****, 2017, 19, 3299-3312. (Impact Factor – 3.305)**

11. Shubha P., Namratha K. and **Byrappa K.** Isolation of green bio reductants from two plant sources and evaluation of reducing ability by free radical scavaging assays
Int. J. Adv. Res. In Sci. Engg**. 2017, 6 (10), 1987-1998.**

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

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

14. Supriya B.S., Nagaraju P., and **Byrappa K.** (**Impact Factor 0. 5**). Hydrothermal synthesis and characterization of carbon spheres using citric-acid-catalyzed carbonization of starch. ***e-Polymers,*** **2015, 15, 179–183 [Google citations 3].**

15. Thejas Urs G., Ananda H.T., Nanda Prakash M.B., **Byrappa K.** 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.**

16. Somashekar R., Mahadevaiah D., Thejas Urs and **Byrappa K. (Impact Factor 1. 749)** Preparation and Characterization of Mulbery Silk Films, ***International Journal of Applied Science-Research and Review,*** **2014, 1, 3, 129-135**

17. Vicas C.S., Namratha K., Shubha P. and **Byrappa K.**, Chick embryo genotoxicity analysis of the green medicine, *Embilica Officinalis* aqueous extract and its action on endodotonic pathogens, ***Journal of GreenScienceand Technology***, **2013, 1, 91-97 [Google citations 8].**

18. B. Shahmoradi, A. Maleki and **K. Byrappa,** Removal of Disperse Orange25 using *in situ* Surface Modified Iron Doped TiO2 Nanoparticle*,* ***Desalination and Water Treatment,*** **2013, 53, 13, 3615-3622 [Google citations 13] (Impact Factor 1. 1).**

19. B. Shahmoradi, **K. Byrappa** and A. Maleki, Surface Modification of ZnO and TiO_2 Nanoparticles under Mild Hydrothermal Conditions, ***Material Science and Engineering*** **A, 2013, 3, 50-56 [Google citations 3]** (**Impact Factor: 5. 447**)**.**

20. H.P. Shivaraju and **K. Byrappa**, The role of hydrothermal prepared supported photocatalytic composite in organic micro pollutants removal from the water ***Journal of Environmental Science and Engineering***, **2012, 54, 353-364,** (**Impact Factor: 1. 01**).

21. T. Parvin, K. Namratha, I.A. Ibrahim, S. Phanichphant **and K. Byrappa** (Impact Factor: 1. 226) Photocatalytic degradation of municipal waste water and Brilliant Blue dye using hydrothermally synthesized surface modified silver doped ZnO designer particles, ***International Journal of Photoenergy,*** **2012, ArticleID 670610, 8 [Google citations 23]. (Impact Factor – 1.547)**

22. B. Shahmoradi, A. Maleki and **K. Byrappa** Photocatalytic degradation of Amaranth and Brilliant Blue FCF dyes using *in situ* modified tungsten doped TiO_2 hybrid nanoparticles, **(RSC, London Journal)** ***Catalysis Science & Technology,*** **2011, 1, 1216-1223 [Google citations 43], (Impact Factor: 5. 365).**

23. B. Shahmoradi, N. Sakamoto, K. Soga, **K. Byrappa** *In-Situ* Surface Modification of Molybdenum Doped TiO_2 Organic-Inorganic Hybrid Nanoparticles under Hydrothermal Conditions and

Treatment of Pharmaceutical Effluent, ***Environmental Technology,*** **2010, 31, 1213 [Google citations 19] (Impact Factor: 1. 7).**

24. **K. Byrappa,** Novel Hydrothermal Solution Routes of Advanced High Melting Nanomaterials Processing. ***Journal of Ceramic Society of Japan,*** **2009, 117, 236-244 [Google citations 15]** (**Impact Factor: 0.887**).

25. B.V. Suresh Kumar, **K. Byrappa**, K.M. Lokanatha Rai, S. Ananda and V. Ravindra The role of $AlPO_4$-11 in the synthesis of biphenol-A and cinnamic acid, ***Indian Journal of Chemical Technology,*** **2002, 9, 543-544 [Google citations 27]** (**Impact Factor: 0. 348**).

26. **K. Byrappa**, K.M. Lokanatha Rai and M. Yoshimura Hydrothermal preparation of TiO_2 and photocatalytic degradation of hexa chlorocyclohexane and dicholorodiphenyl trichloromethane, ***Environmental Technology,*** **2000, 21, 1085-1090 [Google citations 36]** (**Impact Factor: 2. 15**).

27. **K. Byrappa**, M.A. Khandhaswamy and V. Srinivasan Crystal growth and morphology of Na_3BaCl_5. $2H_2O$ crystals, ***Crystal Research and Technology,*** **1999, 34, 850-857 [Google citations 17]** (**Impact Factor: 0. 95**).

28. **K. Byrappa** and K.V.K. Shekar x Synthesis and characterization of $Li_5B_5O_8$ $(OH)_2$, ***Kristal Und Technik,*** **1992, 27, 767** (**Impact Factor: 0. 95**).

29. B Shahmoradi, K Namratha, **K. Byrappa**, K Soga, S Ananda, R Somashekar, Enhancement of the photocatalytic activity of modified ZnO nanoparticles with manganese additive, ***Research on Chemical Intermediates,*** **2011, 37 (2-5), 329-340.**

30. B Shahmoradi, IA Ibrahim, K Namratha, N Sakamoto, S Ananda,R Somashekar, **K. Byrappa**, Surface modification of indium doped ZnO hybrid nanoparticles with n-butylamine, ***International Journal of Chemical Engineering Research,*** **2010, 2, 107-117.**

31. **K. Byrappa**, RI Walton, A Huang, GKL Goh, SR Shannigrahi, CK Tan, ***Progress in Crystal Growth and Characterization of Materials, 2012*****, 58, 164-165.**

32. **K. Byrappa**, DY Pushcharovsky, Crystal chemistry and its significance on the growth of technological materials: Part I; Silicates, phosphates and their analogues, ***Progress in crystal growth and characterization of materials,*** **1992, 24 (4), 269-359**

33. A Cardenas, J Solans, **K. Byrappa**, KVK Shekar, Structure of lithium catena-poly [3, 4-dihydroxopentaborate-1: 5-μ-oxo], ***Acta Crystallographica Section C: Crystal Structure Communications,*** **1993, 49 (4), 645-647**

34. **K. Byrappa**, T. Adschiri. Novel routes of advances materials processing and characterization. ***Journal of Materials Science,*** **2008, 43(7), 2083-2084**

35. **K. Byrappa**, Nirmala, B. (1999). Study of crystallization processes in some rare earth vanadate, tungstate and phosphate systems under hydrothermal conditions. Indian ***Journal of Physics Part A***, **73(5), 621-632.**

36. **K. Byrappa**, M. Yoshimura. Hydrothermal growth of some selected crystals. 2001, Handbook of hydrothermal technology, **Noyes publications/William Andrew**.

37. Bhat S, Sabdeeo KM, Kumar P, Dharmaprakash, Byrappa **K.** Characterization of transparent semiconducting cobalt doped titanium dioxide thin films prepared by sol-gel process. ***Journal of materials science; materials in electronics***, **2018, 29(2), 1098-1106.**

38. Madan kumar R, **K. Byrappa**, Wang Y, Sangappa Y. Effect of gamma irradiation on synthesis and characterization of bio-nanocomposite SF/Ag nanoparticles. ***Radiation and defects in solids,*** **2017, 172(11-12), 915-921.**

39. Sythesis and Characterization of $Li_3B_5O_8(OH)_2$ Crystals **K Byrappa**, KVK Shekar, S Gali ***Crystal Research and Technology*****, 1992, 27 (6), 767-772**

40. A method for the synthesis of spherical copper nanoparticles in the organic phase. MujeeburRahman Khan, Tanveer Fatima Rizvi, Abd El-Hai, Abd El-Hai, SM El-Metwally, et.al. ***Plant Pathology Journal*****, 2010 13 (3), 149-161**

41. Ambiguity in equivalent circuits of some new superionic materials S Patil, AB Kulkarni, **K Byrappa, Bulletin of electrochemistry, 1992, 8, 130-130**

Medicine and Life Sciences

1. Mina Zare, K. Namratha, **K. Byrappa** Biocompatibility Assessment and Photocatalytic Activity of Bio-hydrothermal Synthesis of ZnO Nanoparticles by *Thymus vulgaris* Leaf Extract. ***Materials Research Bulletin, 2018, 109: 49-59.*** **(Impact factor 2. 873)**

2. B.S. Srinath. K. Namratha, **K. Byrappa**. Green synthesis of biocompatible gold nanoparticles from gold mine bacteria Bacillus oceanisediminis and their antileukemic activity. ***International Journal of Pharmacy and Biological Sciences 8 (2) 2018*** **(Imapct factor 2. 6)**

3. Mazzura W.C., Zahid H, Mohd S, Minaketan T, Sunil K, Abu B A M, **Byrappa K. (Impact Factor 3. 09)** Polymer-wrapped single-walled carbon nanotubes: a transformation toward better applications in healthcare. ***Drug Delivery and Translational Research*** · **March 2018 28**

4. Srinath B.S., Namratha K, **Byrappa K.**. Eco-friendly synthesis of gold nanoparticles by gold mine bacteria *Brevi bacillus* formosus and their antibacterial and biocompatible studies. ***IOSR Journal of Pharma*** **2017, 7 (8), 53-60.**

5. Lalitha, S., Madan Kumar S., Shilpa T, Srinivasan K.K., **K. Byrappa**., Abdul A. A. S., **(Impact Factor 2. 454)** Synthesis, anticancer, structural, and computational docking studies of 3-benzylchroman-4-one derivatives. ***Bioorganic and Medicinal Chemistry Letters.*** **2017, 27, 5284-5290.**

6. Shubha P., Namratha K., Jit Chatterjee, Mustak M.S., **K. Byrappa.** Use of Honey in stabilization of ZnO Nanoparticles Synthesized via Hydrothermal Route and Assessment of their Antibacterial Activity and Cytotoxicity. ***Global Journal of Nanomedicine*****, 2017, 2 (2), 555585.**

7. 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,* 2017, 16: 870-882.**

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

9. 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,* 2017, 174, 254–271 [Google citations 3].**

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

➢ Abroad

1. **K. Byrappa**
   Facile one step processing and Properties tuning of heterostructure hybrid metal oxide nanocomposites under soft hydrothermal conditions **(Plenary talk)**
   Third International conference on Composites, Biocomposites and Nanocomposites, 7-9 Nov. 2018, Port Elizabeth, South Africa

2. **K. Byrappa**
   Facile Hydrothermal Processing and Properties Tuning of Heterostructure Hybrid Metal Oxide Nanocomposites
   3rd International Conference on Emerging Advanced Nanomaterials, (ICEAN 2018) 30-2, 2018, Newcastle, Australia.

3. **K. Byrappa** and K. Namratha. (2017) **(Invited Talk)**
   Hydrothermal Solution Processing of Metal Oxides and Metal Oxides Nanocomposites
   SymposiumonJoint IUMRS-ICMAT 2017, Suntec city, Singapore, June18-23, 2017.

4. L. Kashinath, K. Namratha, Ajayan Vinu, **K. Byrappa** (2017) **(Oral Presentation)**
   Hydrothermal Synthesis and Characterization of Fe3O4-GO Nanocomposite for Removal of Heavy Metal from Wastewater
   Symposiumon JointI UMRS-ICMAT 2017, Suntec city, Singapore, June18-23, 2017.

5. Sangappa Yallappa, S Asha, T Ranjana, **K. Byrappa**, B Narayana, T Rakesh. (2017) **(Posterpresentation)**
   Synthesis of Silver Nanoparticles Using Bombyxmori Silk Fibroin: Their Characterization and Antibacterial Activity
   Symposiumon Joint IUMRS-ICMAT 2017, Suntec city, Singapore, June18-23, 2017.

6. Jagadish Krishnegowda, Srikantaswamy Shivanna, **K. Byrappa**, Nayan M. Byrappa, Abhilash M. R. (2017) **(Posterpresentation)**
   Facile Solvothermal Synthesis of Novel CuFe2O4/ MWCNTs Nanocomposite towards Photocatalytic Degradation of Dyes
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   Synthesis and Characterization of Curcumin-Sunflower Protein Nanoparticles
   Symposiumon Joint IUMRS-ICMAT 2017, Suntec city, Singapore, June18-23, 2017.

8. Nayan Mysore Byrappa, Srikantaswamy Shivanna, Jagadish Krishnegowda, **K. Byrappa**, Abhilash M. R. **(Posterpresentation)**
   Hydrothermal Synthesis of Novel FeII/ BiVO4 Hetero-Nanoflowers with Enhanced Visible Light Driven Photocatalytic Wastewater Purification
   IUMRS-ICMAT 2017, Suntec city, Singapore, June18-23, 2017.

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

10. 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 Proceedings1728, 020627 2016.

11. 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 filmsAIP Conference Proceedings**,** 2016**.**

12. **K. Byrappa** and K. Namratha. (2015) **(InvitedTalk)**
    Hydrothermal processing, characterization and applications of functional oxides materialsICMAT 2015& IUMRS –ICA 2015, Singapore, June-28th-July3rd, 2015.

13. 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**.**

14. **K. Byrappa** (2015) **(Keynote Talk)**
    Novel solution processing of metal oxide – organic hybrid nanocrystals and their photocatalytic applications.
    International Workshop on Graphene and C_3N_4-based Photocatalysts
    Wuhan, China, Jun5-8, 2015.

15. K. Namratha and **K. Byrappa.** (2015) **(Oral Presentation)**
    Hydrothermal fabrication of Iron oxides using Piper nigrum extract,
    ICMAT 2015 & IUMRS –ICA 2015, Singapore, June-28th-July3rd, 2015.

16. K. Namaratha, L. Kashinath and **K. Byrappa.** (2015) **(Poster presentation)** Hydrothermal synthesisof hybrid Zinc sulphide-Grapheneoxide nanocompositefor enhanced photocatlytic performance, ICMAT 2015 & IUMRS –ICA 2015, Singapore, June-28th-July3rd, 2015.

17. Thejus Urs G, Ananda H.T., **Byrappa K.** and Somashekar R.. (2015) (Poster Presentation)
    Investigation on themicrostructural and conductingproperties of nickel chloridedoped HPMCpolymer composites
    ICMAT 2015& IUMRS –ICA 2015, Singapore, June-28th-July 3rd, 2015.

18. D. Mahadevhaiah, G, Thejus Urs **K. Byrappa** and R. Somashekar. (2015) (Poster Presentation)
    Effect of microwave irradiation on themicro structural properties of bivoltine silk fibroin films
    ICMAT 2015& IUMRS–ICA 2015, Singapore, June 28th-July3rd, 2015.

19. **K. Byrappa** and K. Namratha. (2014) (**Plenary Talk**)
    Hydrothermal Process Parameters vs Properties Tuning Nanoparticles
    ISHA2014 Conference; France, Oct. 28, 2014.

20. K. Namratha and **K. Byrappa.** (2014) (**Oral Presentation**)
    One Step Hydrothermal Fabrication of *In Situ* Surface Modified Metal Oxides Nanoparticles for Biomedical Applications
    ISHA2014 Conference France, Oct. 27, 2014.

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

22. **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.

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

24. **K. Byrappa** and K. Namratha. (2013) **(Invited Talk)**
Tuning of Bandgap and Nano porosityin Hydrothermally Prepared Metal Oxide Semiconductors for Enhancing Bioactivity,
International Conferenceon Materials for Advanced Technology (ICMAT-2013) Jun 30-Jul05, 2013, Singapore

25. **K. Byrappa** and K. Namratha. (2013) **(Invited Talk)**
Organic Assisted Novel Solution Processing of Photocatalytic Metal Oxide Nanomaterials
International Conferenceon Materials for Advanced Technology (ICMAT-2013) Singapore, Jun 30-Jul05, 2013.

26. **K. Byrappa** and K. Namratha. (2013) (**Keynote Talk**)
Supercritical Hydrothermal Solution Processingof Some High Melting Nanomaterials
3rdIbero-American Conferenceon Supercritical Fluids, Cartagena, Colombia, Apr. 01-05, 2013.

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

28. 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, May20-25, 2012,

29. **K. Byrappa** and K. Namratha. (2012) (**Keynote Talk**)
Hydrothermal Processing and *In situ* Surface Modification of Metal Oxide Nanomaterials\10thInternational Symposiumon Supercritical Fluids, San Francisco, USA, May13-16, 2012.

30. K. Namratha, S. Suresha and **K. Byrappa**.
HydrothermalSynthesis and Photocatalytic Studies of *in situ* surface modified Silver Doped ZnO Nano particles
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HydrothermalSynthesis and Photocatalytic Studies of *in situ* surface modified Silver Doped ZnO Nano particles
Proc. IUMRS-ICA (2011**)** Taipei, Taiwan.

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Preparation, Characterization and Biological Activity of Selectively Doped ZnO Nanoparticles
Proc. IUMRS-ICA (2011) Taipei, Taiwan.

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Hydrothermal and Solvothermal Syntheses, In situ Surface Modification and Antioxidant Activityof Co-Doped Advanced ZnO Nanoparticles

10th International Symposiumon Supercritical Fluids, May13-16, 2012, San Francisco, USA.

34. **K. Byrappa**, K. Namratha and M. Yoshimura. (2011) (**Keynote Talk**)
Novel Solution Processingof Metal Oxide– Organic Hybrid Nanocrystalsand Their Interfaces in Environmental Applications
Promotion Center for Global Materials Research Symposiumon Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept23-24, 2011.

35. 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 Symposiumon Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept. 23-24, 2011.

36. K. Namratha, S. Sureshand **K. Byrappa**. **(OralPresentation)**
In situ Surface Modification of ZnO Nanomaterials under Novel Hydrothermal Solution Routes,
Promotion Center for Global Materials Research Symposiumon Nanotechnology for Advanced Materials, Tainan, Taiwan, Sept. 23-24, 2011.

37. 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.

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

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

40. 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 Nano particles,
IUMRS-ICA 2011, 12th IUMRS International Conferencein Asia, Taipei, Taiwan, Sept. 19-22, 2011.

41. **K. Byrappa** and K. Namratha. **(Invited Talk)**
Hydrothermal Synthesis and Photocatalytic Studies of *In situ* Surface Modified Silver Doped ZnO Nano particles, IUMRS-ICA 2011,
12thIUMRS International Conferencein Asia, Taipei, Taiwan. Sept. 19-22, 2011.

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

43. **K. Byrappa** (**Keynote Talk**)
Novel Routes of Hydrothermal Solution Processing of Advanced Nanomaterials 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) Beijing, China, July27-29, 2010.

44. **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.

45. **K. Byrappa** (**Invited Talk)**
Crystallization of Polyscale Materials through Hydrothermal Routes International School of Crystallization, Granada Spain, May24-28, 2010,

46. 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, July27-29, 2010.

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

48. 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.

49. K. Namrathaand **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.

50. 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/ RuO_2/ AgO Nanocomposites, Synthesized by Electrolytic Method,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) Beijing, China, Jul. 27-29, 2010.

51. M. B. Nayan, K. Namratha and **K. Byrappa**. **(PosterPresentation)**
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.

52. **K. Byrappa. (InvitedTalk)**
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

53. 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. Jul27-29, 2010.

54. S. Ananda, B.R. Srilatha and **K. Byrappa**. (Posterpresentation)
Extraction of Biomaterial from the Medicinal Plant: A Study of Antidiabetic Activity,
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010), Beijing, China, July27-29, 2010.

55. Chandrashekar C.K. Basavalingu. B,T. Parvin, Lokanatha Rai K.M.,. Sogaand K and **Byrappa K.** Synthesis, characterization and photocatalytic property of rare earth vanadates, ISHA 2008, University of Nottingham, UK, Sept. 8-10, 2000.

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1. **K. Byrappa (2019) (Presedential lecture)**
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   Processing of metal oxide nanomaterials for Enviornment Safety
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11. **K. Byrappa** (2015) **(Plenary Talk)**
    Nanoscience, Nanotechnology and Advanced Materials
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12. **K. Byrappa** and K. Namratha (**InvitedTalk**)
    Current Trends in the Hydrothermal Technology for the Processing of Functional Advanced Materials
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13. **K. Byrappa** and K. Namratha (**Plenary Talk**)
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14. C.S. Vicas, K. Namratha and K. Byrappa Detailed Risk Assessment of Hydrothermally Synthesized Nanocrystals for Biomedical Usage 19th NSCG 2015, March. 14, 2015, Vellore, India.

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19th NSCG 2015, March. 13, 2015, Vellore, India.

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Processingof Metal oxide Nanoparticles for Biomedical Applications from Nanotechnology Perspective
Nanoscience and Nanotechnology Conference, Feb. 21, 2014, India.

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Physical and Mathematical Sciences
Andhra Pradesh Academy of Sciences Golden Jubilee Science Congress, Nov. 13-14, 2014.

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International Conference on Nano, Bio and Material Sciences, Osmania University, Hyderabad, Jan. 8-10, 2014.

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25. Shanthini Keerthana, K. Namratha, and **K. Byrappa**
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26. **K. Byrappa** and K. Namratha **(InvitedTalk)**
Role of in situ Modification and selectivedopingof Metal oxides for controlled morphology and properties
43rd National seminar on Crystallography and International workshop on Application ofX-raydiffraction for Drug Discovery, Nov. 21- 23, 2013, India

27. **K. Byrappa** and K. Namratha
Organic assisted solution processingof TiO_2, ZnO, $NiFe_2O_4$ and Fe_3O_4 particles for applications
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28. K. Namratha and **K. Byrappa**
Selectively Doped Zinc Oxide Polyscale Designer Crystals,
41st National Seminar on Crystallography, 08-10, Oct. 2012, Chennai, India.

29. **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.

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

31. 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.

32. **K. Byrappa** and K. Namratha (**KeynoteTalk**)
Nanomineralogy from Geologyto Technology
National Seminar on Recent Advancesin Mineral Sciences and Their (RAMSTA) & Golden Jubilee Celebrations of the Mineralogical Society of India, 17-18, March 2011, Mysore, India.

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

34. K. Namratha, **K. Byrappa** and Ravishankar Rai
Designand Fabrication of in situ surface modified ZnO Nanohybrid Crystals and their Biological Activities
40th National Seminar on Crystallography, 26-28, Nov. 2011, Hyderabad, India.
35. K. Namratha, P. Natraj, K. Meghana and **K. Byrappa**
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36. **K. Byrappa**
Recent Advances in Nanomaterials Processing (**Plenary Talk**)
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37. T. Parvin and **K. Byrappa**
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38. **K. Byrappa** and K. Namratha
Synthesis and Characterization of Metal Oxides for Energy Applications **(InvitedTalk)**
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39. K. Namratha and **K. Byrappa**
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40. T. Parvin and **K. Byrappa**
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41. **K. Byrappa** and K. Namratha
Designand Synthesis of Advanced High Melting Nanocrystals through Novel Routes of Solution Processing (**InvitedTalk)**
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Synthesis and Characterization of Rare Earth Doped Orthorhombic Yttrium Aluminum Perovskites (Yap)
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133. **K. Byrappa** and S. Srikanataswamy
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134. **K. Byrappa**, R.R. Clements, S. Gali and A.B. Kulkarni
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138. 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.

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142. **K. Byrappa**, A.B. Kulkarni, N.B. Desai, S.K. Patil, G.S. Gopalakrishna and S. Srikantaswamy
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147. **K. Byrappa**, A.B. Kulkarni, N. B. Desai and S. Srikantaswamy
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Growth and Characterization of $NaCu_2ZrP_3O_{12}$
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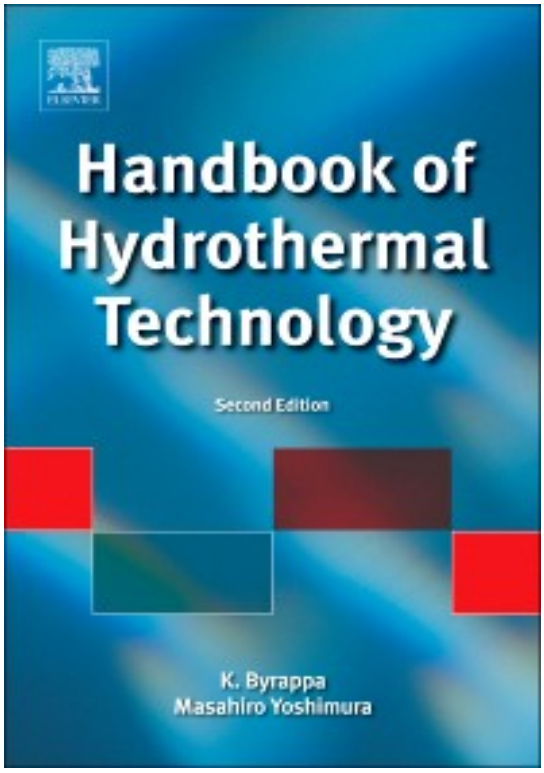

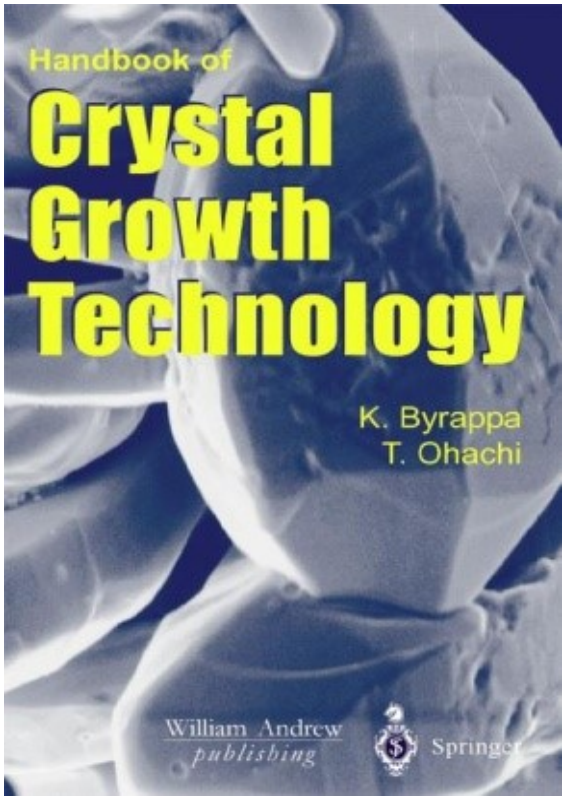

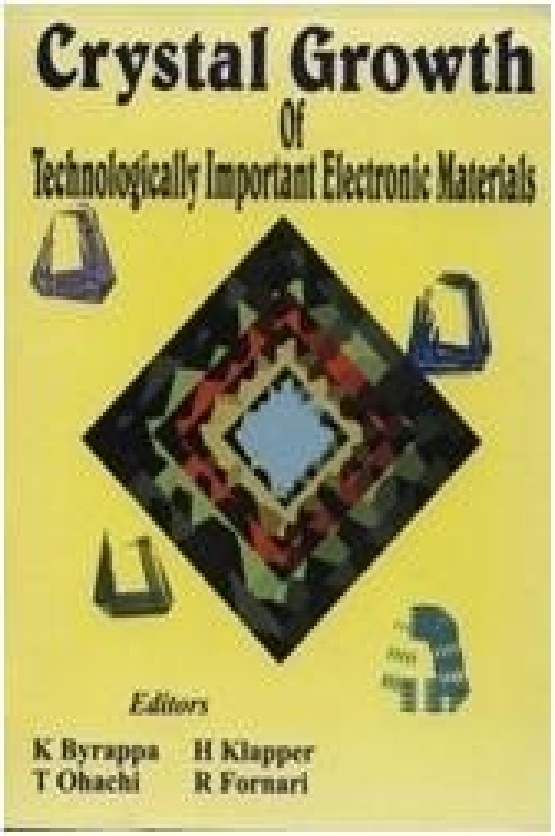
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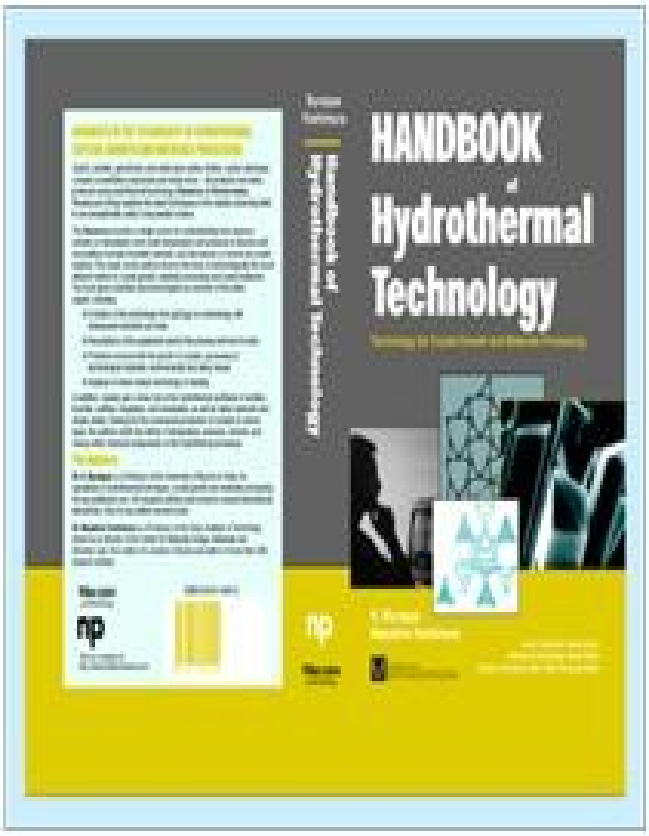
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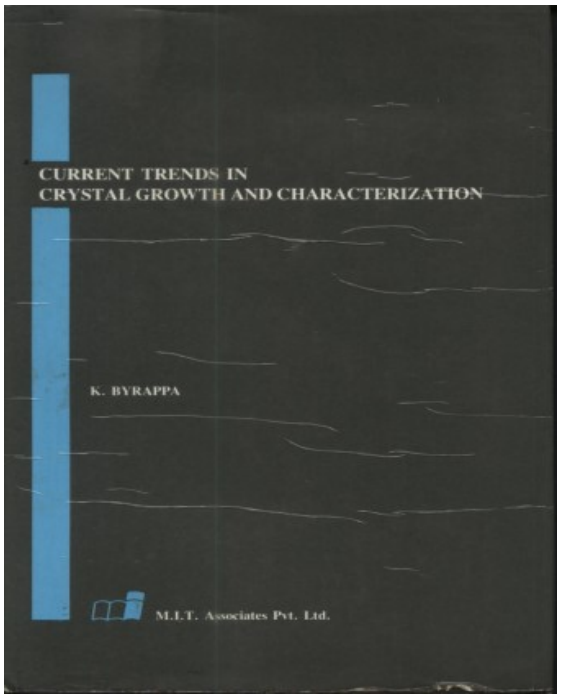
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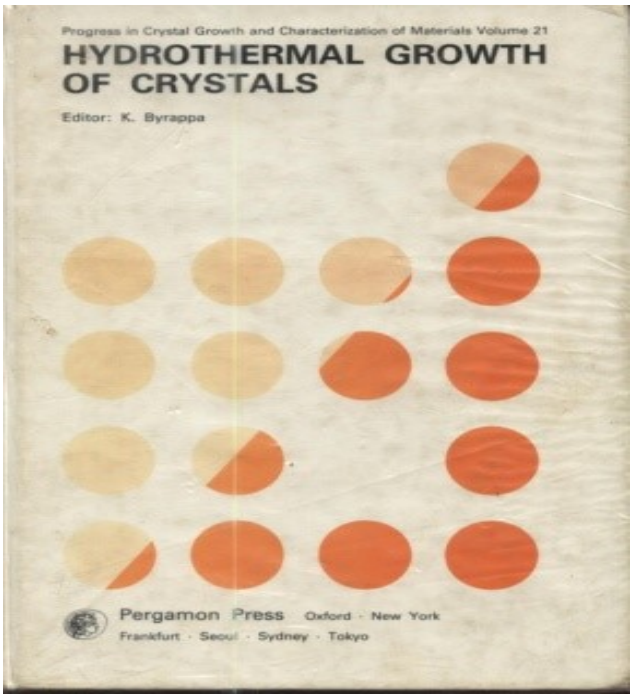
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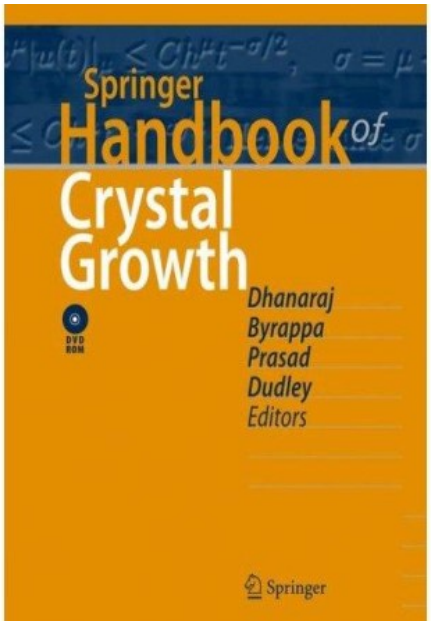

List of articles with impact citations in the scientific society/ Research highlights

Top 25 Hottest Articles
No. 1 Spotinthe past 5 years

- **K. Byrappa** and T. Adschiri (2007) (Impact Factor: 9.2) (Review Article, Elsevier) Hydrothermal Technologyfor Nanotechnology ***Progress in Crystal Growth and Characterization of Materials,*** UK, Vol. 53, pp. 117-166. [Past 5 years] **[>835 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]

- M. Yoshimura and **K. Byrappa** (2008) Hydrothermal Technology: Past, Present and Future (Review) ***J. Mater. Sci.,*** Vol. 43 (7), pp. 2085-2103, (Impact Factor: 2.993) **[Over 425 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: 8.806) **[Over 385 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: 8.806) **[Over 326 citations]**

- **K. Byrappa**, S. Ohara and T. Adschiri (**Impact Factor: 17.28; h-index - 261**) (**Review**)
  Nanoparticles synthesis using supercritical fluid-towards biomedical applications,
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- **K. Byrappa**, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, R. Dinesh and M. Yoshimura **[Impact Factor: 1.179]**
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  ***Bulletin of Mater. Sci*. 2006, 28, 1-6 [Google citations 251].**

- A.S. Dayananda, C.P. Sajan, B. Basavalingu, **K. Byrappa**, K. Soga and M. Yoshimura, (**2008)**,
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  Journal of Materials Science, Vol. 43, pp. 2348-2355, **(I.F.=2.993)**
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- 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,
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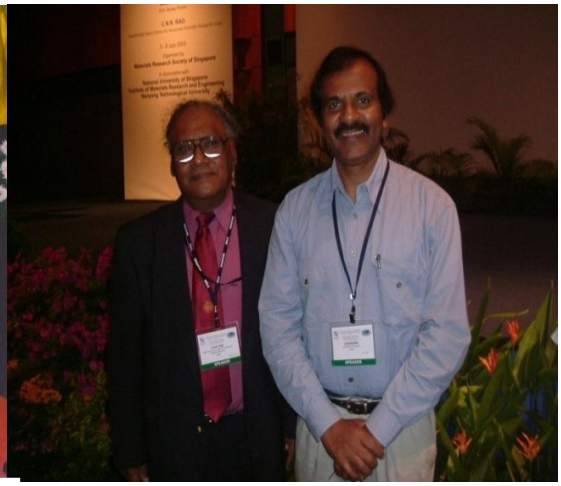
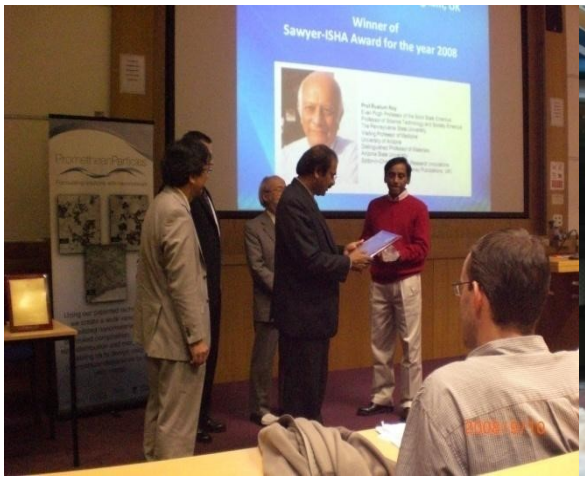
Prof. M. Yoshimura being felicitated in the presence of Prof. C.N.R. Rao during 6th International Conference on Solvothermal Reactions held in Mysore during August 2004



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

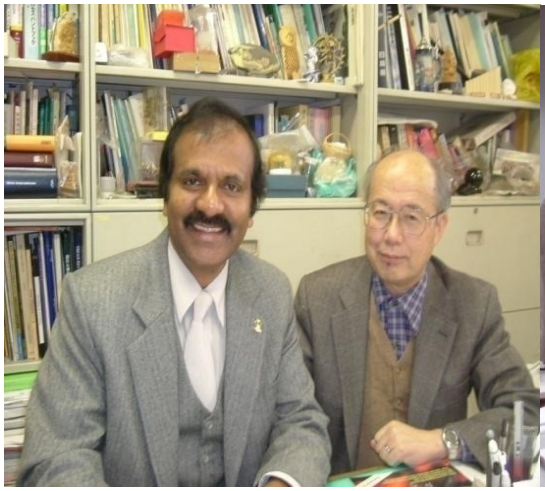


With ISHA Executive Committee Members during the Meeting in Nottingham, UK, held on Sept. 9, 2008

With ISHA Executive Committee Members during the Meeting in Sicily, Italy, held on April 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,

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.