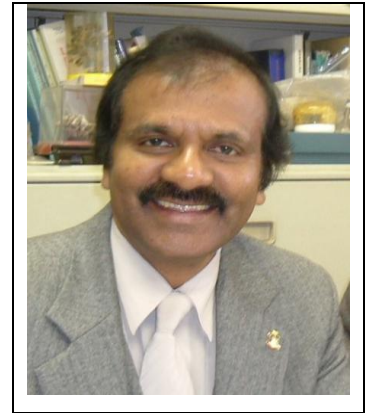


FACULTY PROFILE



1. Name: **K. BYRAPPA**

2. Designation: **PROFESSOR**

**Director, Internal Quality Assurance Cell (IQAC)
University of Mysore, from Sept. 2009 to date**

**Chairman: Dept. of Studies in Earth Science
(from Jan. 2009 to April 2011)**

**Director, UGC-Academic Staff College, Univ. of Mysore
(from Jan. 2004 to Sept. 2006)**

3. Qualification: **M.Sc., Ph.D., (Moscow)**

4. Area of Specialization: **Materials Science, Nanotechnology, Crystallography,
Crystal Growth, Experimental Mineralogy, Environmental
Science, Solution Chemistry, Solid State Chemistry and Solid
State Physics, Authority in Hydrothermal Technology.**

5. Awards/Recognitions:

1. **Elected FELLOW/ ACADEMICIAN, World Academy of Ceramists, USA from 2009.**
2. **ASSOCIATE EDITOR, Journal: PROGRESS IN CRYSTAL GORWTH AND CHARACTERIZATION OF MATERIALS – a Review Journal from Elsevier Science Publishers, The Netherlands (Impact Factor : 9.25)**
3. **EDITOR IN CHIEF, Journal: MATERIALS RESEARCH INNOVATIONS, Publishers: Maney Publications, U.K. (Impact Factor : 1.8)**
4. **Editorial Board Member, Journal: Ceramics International, Elsevier Publications, Holland (Impact Factor: 1.75)**
5. **Editorial Board Member, Journal: The Open Access Crystallography Journal, Bentham Publications, USA.**
6. **Guest Editor, Journal of Materials Science, Springer, USA.**

7. **Expert, Dept. of Science and Technology, Govt. of India, National Program on Nanomaterials for Ferro-Fluid Flow.**
8. **GOLD MEDALLIST** in Bachelor of Science Degree, Mysore Univ. 1973.
9. **GOLD MEDALLIST** in Master of Science Degree, Mysore Univ., 1975.
10. Recipient of **SUBJECT SCHOLARSHIP** from 1973 to 1975.
11. **1st RANK (1st Place)** in Master of Science Degree Examination, University of Mysore, 1975.
12. **Recipient of Sir C V Raman Award for the year 1998, India.**
13. **Medal, Materials Research Society of India, 2004**
14. **Consultant to the International Commission on Crystal Growth**, a Body of the International Union of Crystallography, from 1999-2002.
15. **General Secretary, International Solvothermal and Hydrothermal Association, from 2006**
16. Recipient of the Mysore University **GOLDEN JUBILEE AWARDS for 1987 and 1992 for the BEST RESEARCH WORK in the University of Mysore.**
17. Served as UGC Expert for SAP Programs, and Member of NAAC Committee.
18. Recipient of the **ATTRACTIVE PAPER AWARD** in the IX International Conference on
19. Crystal Growth, August 20-25, 1989, Sendai, Japan.
20. **MEMBER, EDITORIAL BOARD** Journal of The Indian Academy of Sciences
21. **MEMBER, Scientific Program Committee, International Congress on Crystallography, Florence, Italy, August, 2005.**
22. Selected to **Elite Club of 2000 Outstanding Personalities of 20th Century**, in Science & Technology by International Biographic Centre, Cambridge, U.K.
23. **MEMBER**, British Association for Crystal Growth, UK.
24. **EXECUTIVE COMMITTEE MEMBER**, National Committee for Crystal Growth, India.
25. **MEMBER**, International Panel on the Experimental Techniques of the Growth of 4f Elements Compounds, Lisbon, Portugal, 1987.
26. **MEMBER**, NEW YORK ACADEMY OF SCIENCES, USA.
27. **MEMBER**, International Advisory Board on Crystal Growth.
28. **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.
29. Listed in **Marques Who's Who in the World**, USA; **Marques Who's Who in Aisa**; **Marques Who's Who in Science and Engineering, from 1997 onwards**
30. Delivered **SPECIAL LECTURES** in National & International Schools and Seminars on Materials Science, Crystal Growth held in different countries in the world.
31. **Published over 191 Research Papers including 30 major reviews in International Journals, Book chapters** for oversea publishers and presented over 179 papers in National and International Conferences and Seminars.
32. Invited to several International Conferences and Seminars related to Crystal Growth and Hydrothermal Research, Presented Invited Papers and Chaired Sessions.
33. UGC expert for Committee on Orientation Programmes and Refresher courses in India, 2006
34. **Executive Council Member, National Crystallography Council** of Indian National Science Academy, India. From 2007 -
35. **Executive Council Member, International Commission on Crystal Growth and Characterization of Materials, International Union of Crystallography, UK. From 2002-**
36. **Executive Council Member, Asian Crystallography Association, From 2006 –**
37. Member, Core Committee for Ph.D. Regulations of University of Mysore, Mysore

38. Member, Core Committee for VISION 2025 UNIVERSITY OF MYSORE.
 39. Member, Core Committee for Choice Based Credit System, University of Mysore
 40. Nodal Officer, University Auditing Committee, University of Mysore
 41. **Fellow** of the Mineralogical Society of India
 42. **Fellow** of the Geological Society of India.
 43. **Fellow** of the Geochemical Society of India.
- Etc.,

6. Number of projects:

i) Completed

Sl. No.	Project Title	Funding Agency	Duration		Grant Amount (INR)
			From	To	
1	Synthesis and Characterization of a Alkali Rare Earth Metal Oxide Superionic conductors	UGC Minor Project	1983	1984	Rs.1 lakh
2	Synthesis and Characterization of a New Group of Fast Ionic Conductors	UGC Major Project	1984	1987	Rs. 5.6 lakhs
3	Crystal Growth and Characterization of Berlinite	CSIR Major Project	1985	1988	Rs. 5 lakhs
4	Fast Ionic Conductors – Synthesis and Characterization	UGC Major Project	1986	1989	Rs.8.7 lakhs
5	Growth and Characterization of a New Group of Superionic Conductors	DRDO Major Project	1987	1990	Rs.9 lakhs
6	Preparation of a New Group of Fast Ionic Conductors	DRDO Major Project	1989	1992	Rs. 14 lakhs
7	Growth and Characterization of KTP and Rare Earth Vanadates	Dept. of Atomic Energy, under National Laser Program	1995	2000	17.8 Lakhs
8	Hydrothermal Carbon (jointly with the Tokyo Institute of Technology, Tokyo, Japan & Chicago University, USA	RIST, Takamatsu, Japan	1998	2001	US \$ 1.5 Million
9	Synthesis and Processing of Ecomaterials for the Degradation of Toxic Organic Waste and Effluent Treatment	UGC, India	May 2002	May 2005	Rs.5.7 Lakhs
10	Investigations of the Synthesis of Diamond and Other Forms of Carbon Under Hydrothermal Conditions	UGC, India	May 2002	2005	Rs.2.11 Lakhs
11	Synthesis of New Alkali Earth Alumino Silicates	Manoj R. Jain Trust, Mumbai	Jan 2004	2004 July	Rs. 1 lakh
12	Carbon Polymorphs: Hydrothermal Synthesis and Characterization	DST, New Delhi	Oct. 2004	March 2008	Rs.23.5 Lakhs
13	Crystal Growth and Characterization of Rare Earth Vanadate Laser Crystals	DST, New Delhi	Feb. 2005	August 2008	Rs.17.25 Lakhs
14	Hydrothermal Synthesis of Inorganic Compounds	General Electric, Bangalore	Jan 2005	Mar 2007	Rs. 8 lakhs

ii) On-going

Sl. No.	Title of the project	Funding Agency	Amount	Date of Commencement	Expected date of completion
1	Hydrothermal Prepration of Rutile, Anatase and Zincite Nanominerals Particles for Photocatalytic Applications	University Grants Commission	Rs.14.00 Lakhs	March 2010	Sept. 2013
2	Synthesis and Characterization of Polyscale Crystals of Diamond, Diamond like Structures and Graphite	Dept. of Science and Technology, Govt. of India	Rs.35 lakhs	Jan. 2012	Jan. 2014
3	Metal Oxides Based Advanced Oxidation Technology for Industrial Pollution Control.	Ministry of Environment and Forest, Govt of India	Rs.30 lakhs	Expected to start in April 2012	Expected to complete May 2015
4	Prosseing, Characterization and Applications of Advanced Functional Nanomaterials	University Grants Commission under CPEPA	Rs.4.53 Crores	March 2012	March 2017

7. Number of Ph.D candidates successfully completed: 18

8. Number of Ph.D candidates currently working: FOUR

9. Number of M. Phil candidates successfully completed: NIL

10. Number of M. Phil candidates currently working: NIL

11. Publications:

i) Books

Sl. No.	Author/s	Title	Publisher	Year of publication	Page No.
1	K.Byrappa, India T. Adschiri, Japan	Hydrothermal Technology for Nanotechnology	John-Wiley and Sons, USA	Under preparation	
	K. Byrappa M. Yoshimura <i>(Second Edition is in print)</i>	HANDBOOK OF HYDROTHERMAL TECHNOLOGY A Technology for Crystal Growth and Materials Processing	Elsevier Science Publishers, UK	2012 (Scheduled for release in July 2012)	~1000 pages
2	<i>G. Dhanaraj, USA K. Byrappa, India V. Prasad, USA M. Dudley, USA</i>	Springer Handbook of Crystal Growth	Springer-Verlag, Germany	2010	1857 pages
3	K. Byrappa, India T. Adschiri, Japan	NOVEL METHODS OF ADVANCED MATERIALS PROCESSING AND APPLICATIONS <i>Special Edition of J. Materials Science Vol. 43, Issue 7</i>	Springer, USA	2008	430 pages
4	K. Byrappa, India M.Yoshimura, Japan	A NOVEL METHOD OF ADVANCED MATERIALS PROCESSING <i>Special Edition of J. Materials Science Vol. 41, Issue 5</i>	Springer, USA	2006	400 pages
5	Chief Editors: A. Malagatti K. Byrappa	Kuvempu Punarmanana	Mysore University Prasaranga, Mysore	2004	220 pages
6	<i>K. Byrappa, India T. Ohachi, Japan</i>	CRYSTAL GROWTH TECHNOLOGY	<i>Springer-Verlag, Germany & William Andrew,</i>	2003	470 pages

			New York, USA		
7	K. Byrappa, India T. Ohachi, Japan H. Klapper, German R. Fornari, Italy	CRYSTAL GROWTH OF TECHNOLOGICALLY IMPORTANT ELECTRONIC MATERIALS	Allied Publishers Pvt. Ltd. New Delhi, India	2003	540 pages
8	K. Byrappa M. Yoshimura (First Edition)	HANDBOOK OF HYDROTHERMAL TECHNOLOGY A Technology for Crystal Growth and Materials Processing	Noyes publications, New Jersey, USA, 2001	2001	930 pages
9	K Byrappa & D.Yu. Pushcharovsky	Crystal Growth and Crystal Chemistry	Elsevier Pergamon, Oxford, UK	1994	170 pages
10	K. Byrappa	Current Trends in Crystal Growth and Characterization	MIT Publishers, India	1991	600 pages
11	K. Byrappa	Hydrothermal Growth of Crystals	Elsevier Pergamon, Oxford, UK	1990	400 pages

ii) Activities related to the Journals:

1. Associate Editor : *Progress in Crystal Growth and Characterization of Materials*, Elsevier Science Publishers, The Netherlands (from 1987) **(Impact Factor : 9.3)**
2. Editor-in-Chief : *Materials Research Innovations*, Maney Publications, UK (from 2007) **(Impact Factor : 1.72)**
Editorial Board Member: *Open Access Journal of Crystallography*, Bentham Publications. (from 2009) **(Impact Factor : 1.70)**
3. Editorial Board Member : *Ceramics International*, Elsevier Publishers, The Netherlands (from 2010)
4. Guest Editor – *Journal of Materials Science*, Springer Publications, USA (from 2006). **(Impact Factor : 1.9)**

iii) Articles in Journals

1. *B.N. Litvin, K. Byrappa and L.G. Bebikh (1981) **(Impact Factor: 9.2)**
Growth and properties of Monocrystals for Miniature Lasers
Progress in Crystal Growth and Characterization Vol.3, pp. 257-271, UK.
2. B.N. Litvin and K. Byrappa (1981) **(Impact Factor: 1.9)**
Phases in Crystalization in the system Cs₂O-Nd₂O₃-P₂O₅-H₂O
J. Crystal Growth Vol.51, pp. 470-476.
3. K. Byrappa and G.I. Dorokhova (1982) **(Impact Factor: 1.8)**
Growth, Morphology and Structure of CsRP₄O₁₂ Crystals
J. Mat. Sci. Vol. 17, pp. 3244-3248, UK.

4. *K. Byrappa, I.I. Plyushina and G.I. Dorokhova (1982) (Impact Factor: 1.8)*
Growth, Structure and IR-spectra of CsRP₄O₁₂ Crystals
J. Mat. Sci. Vol. 17, pp. 1847-1853, U.K.
5. *K. Byrappa (1982) (Impact Factor: 1.8)*
Fluorescence in CsNdP₄O₁₂
J. Mat. Sci. Letts. Vol. 1, pp. 232-235, U.K.
6. *K. Byrappa and G.I. Dorokhova (1981) (Impact Factor: 1)*
Synthesis and X-ray Studies of CsR(PO₃)₄ crystals at high temperature
Problems in Crystallography, Vol.3, pp. 157-160, USSR.
7. *K. Byrappa, O.S. Philepenki and B.N. Litvin (1981) (Impact Factor: 1)*
Synthesis and properties of RbNd(PO₃)₄
Problems in Crystallography, Vol. 3, pp. 264-270, USSR.
8. *B.N. Litvin, K. Byrappa, V.A. Masloboev and N.V. Vinogradova (1981) (Impact Factor: 1.9)*
Phase formation in the system Cs₂O-Nd₂O₃.P₂O₅-H₂O at 300-800°C and (0.1-0.5) 10 Pa
Izvesita Acad, Nauk USSR, Inorganic Materials, Vol. 17, pp. 1438-1444, USSR.
9. *K. Byrappa and G.I. Dorokhova (1981) (Impact Factor: 1)*
Synthesis and X-ray studies of CsRP₄O₁₂
Vestnik Moscow State University, Vol. 4, pp. 93, USSR
10. **K. Byrappa and B.N. Litvin (1983) (Impact Factor: 1.8)*
Hydrothermal synthesis of mixed phosphates of neodymium and alkaline metals
(Me₂O.Nd₂O₃.4P₂O₅)
J. Mater. Sci. Vol.18, pp. 703-708, U.K.
11. **K. Byrappa and B.N. Litvin (1983) (Impact Factor: 1.8)*
Synthesis and characterdization of RbRP₄O₁₂
J. Mater. Sci. Vol.18, pp. 2056-2062, U.K.
12. **K. Byrappa (1983) (Impact Factor: 2.5)*
The possible Reasons for the Absence of Condensed Phosphates in Nature
Physics and Chemistry of Minerals, Vol.10, pp. 94-96, GERMANY
13. **K. Byrappa, V. Venkatachalapathy and B. Puttaraj (1984) (Impact Factor: 1.8)*
Crystallization of Orthophosphate
J. Mater. Sci. Vol.19, pp. 2855-2862, U.K.
14. *K. Byrappa, G.S. Gopalakrishna, V. Venkatachalapathy and B. Puttaraj (1985)*
(Impact Factor: 1.8)
Hydrothermal Growth and Properties of Na₂(La,Co)Zr(PO₄)₃ Crystals
J. Mater. Sci. Letts. Vol.4, pp. 565-567, U.K.
15. *K. Byrappa, A.B. Kulkarni and G.S. Gopalakrishna (1985) (Impact Factor: 1.5)*
Ionic Conductivity in Na₂(La,Co)ZrP₃O₁₂ Crystals
J. Less Common Metals, Vol. 111, pp. 359-360, HOLLAND.
16. *K. Byrappa, G.S. Gopalakrishna, A.B. Kulkarni and V. Venkatachalapathy (1985)*
(Impact Factor: 1.5)
Synthesis and Characterization of Na₂(R,Co)Zr(PO₄)₃ crystals
J. Less Common Metals, Vol. 110, pp. 441-444, SWITZERLAND.
17. *K. Byrappa (1986) (Impact Factor: 9.2)*
Preparative Methods and Growth of Rare Earth Phosphates (REVIEW)
Progress in Crystal Growth and Characterization, Vol. 13, pp. 163-196, U.K.
18. *K. Byrappa and G.S. Gopalakrishna (1986) (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, Vol. 11, pp. 89-107, U.K.
19. *K. Byrappa, G.S. Gopalakrishna, V. Venkatachalapathy and B. Puttaraj (1985)*

- (Impact Factor: 1.8)**
Crystallization and Characterization of $\text{Na}_2(\text{La,Me})\text{Zr}(\text{PO}_4)_3$
J. Mater. Sci. Vol.20, pp. 1419-1426, U.K.
20. *K. Byrappa, S. Srikanta Swamy, G.S. Gopalakrishna and V. Venkatachalapathy*(1986)
(Impact Factor: 1.8)
Influence of Admixtures on the Crystallization and Morphology of AlPO_4 Crystals
J. Mater. Sci. Vol.21, pp. 2202-2206, U.K.
21. *K. Byrappa, S. Srikanta Swamy, G.S. Gopalakrishna and V. Venkatachalapathy*(1986)
(Impact Factor: 1.8)
Influence of admixtures on the alpha-beta Berlinite Inversion
J. Mater. Sci. Letts. Vol.5, pp. 347-348, U.K.
22. *K. Byrappa, S. Srikanta Swamy, G.S. Gopalakrishna and V. Venkatachalapathy* (1986)
(Impact Factor: 1.8)
Influence Spectra of Aluminium Orthophosphate Crystals
J. Mater. Sci. Letts. Vol.5, pp. 203-205, U.K.
23. *K. Byrappa, G.S. Gopalakrishna and A.B. Kulkarni* (1986) **(Impact Factor: 1.8)**
Synthesis and Properties of $\text{Na}_2(\text{La,Me})\text{ZrP}_3\text{O}_{12}$ Crystals
J. Mater. Sci. Letts. Vol.5, pp. 408-410, U.K.
24. *K. Byrappa, G.S. Gopalakrishna and A.B. Kulkarni* (1987) **(Impact Factor: 1)**
Synthesis and Characterization of Some New Superionic Conductors $\text{Na}_2(\text{La,Me})\text{ZrP}_3\text{O}_{12}$
Indian Journal of Physics, Vol. 61A, p. 377.
25. *K. Byrappa, S. Srikantaswamy and J. Shashidhara Prasad* (1987) **(Impact Factor: 1)**
Influence of admixtures on the Crystallization and Polymorphic Transitions of Piezoelectric Aluminium Orthophosphate Crystals
Indian Journal of Physics, Vol. 61A, p. 423.
26. *A.B. Kulkarni, K. Byrappa and G.S. Gopalakrishna* (1986)
Creation of New Superionics by Ion Implantation of Natural Minerals
Vignana Bharathi, Vol. 9, pp. 88-91.
27. *K. Byrappa, J. Shashidhara Prasad and S. Srikanta Swamy* (1986) **(Impact Factor: 1.8)**
X-ray Data for AlPO_4 Crystals
J. Mater. Sci. Letts. Vol.5, pp. 495, U.K.
28. *K. Byrappa, G.S. Gopalakrishna and A.B. Kulkarni* (1986) **(Impact Factor: 1.8)**
Synthesis and Characterization of $\text{NaNi}_2\text{ZrP}_3\text{O}_{12}$ Crystals
J. Mater. Sci. Letts. Vol.5, pp. 519-521, U.K.
29. **K. Byrappa, S. Srikanta Swamy and J. Shashidhara Prasad* (1986) **(Impact Factor: 1.8)**
New Polymorphic Modification of Aluminium Orthophosphates
J. Mater. Sci. Letts. Vol.5, pp. 690-692, U.K.
30. *K. Byrappa, J. Shashidhara Prasad, S. Srikanta Swamy and G.S. Gopalakrishna* (1986)
(Impact Factor: 1.8)
Crystal Data for $\text{NaNi}_2\text{ZrP}_3\text{O}_{12}$ and $\text{Na}_2(\text{La,Al})\text{TiP}_3\text{O}_{12}$
J. Mater. Sci. Letts. 5 701-702, U.K.
31. *K. Byrappa, G.S. Gopalakrishna, S. Srikanta Swamy, A.B. Kulkarni and J. Shashidhara Prasad* (1987) **(Impact Factor: 2.16)**
Synthesis and Characterization of New Superionic Conductors $\text{NaCu}_2\text{ZrP}_3\text{O}_{12}$ and $\text{Na}_2(\text{La,Fe})\text{ZrP}_3\text{O}_{12}$
Solid State Ionics, Vol. 24, pp. 1-8, HOLLAND.
32. *K. Byrappa, J. Shashidhara Prasad, S. Srikanta Swamy and G.S. Gopalakrishna* (1986)
(Impact Factor: 1.8)
Crystal Data for $\text{Na}_2(\text{R,Me})\text{ZrP}_3\text{O}_{12}$ and $\text{Na}_2\text{LaZrP}_3\text{O}_{12}$
J. Mater. Sci. Letts. Vol.5, p. 1104, U.K.
33. *K. Byrappa, J. Shashidhara Prasad, S. Srikanta Swamy and G.S. Gopalakrishna* (1986)

- (Impact Factor: 1.8)**
Crystal Data for $\text{NaMn}_2\text{ZrP}_3\text{O}_{12}$, $\text{Na}(\text{Ce},\text{Co})\text{ZrP}_3\text{O}_{12}$ and $\text{Na}_2(\text{La},\text{Co})\text{TiP}_3\text{O}_{12}$
J. Mater. Sci. Letts. Vol.5, p. 1081, U.K.
34. *K. Byrappa, A.B. Kulkarni and G.S. Gopalakrishna (1986) (Impact Factor: 1.9)*
Synthesis and Characterization of New Superionic Triorthophosphates
J. Crystal Growth, Vol. 79, p. 232, HOLLAND
35. **K. Byrappa, J. Shashidhara Prasad and S. Srikanta Swamy (1986) (Impact Factor: 1.9)*
Synthesis and Characterization of a New Polymorphic Modification of AlPO_4
J. Crystal Growth, Vol. 79, p. 232, HOLLAND
36. *K. Byrappa, G.S. Gopalakrishna, D.S. Mahadevappa and J. Shashidhara Prasad (1987)*
(Book Chapter)
Thermal Expansion Study of $\text{NaNi}_2\text{ZrP}_3\text{O}_{12}$
Physics of Materials, Ed: M. Yussouff (World Scientific Publishers, Singapore, pp. 222-227)
37. *K. Byrappa, N.B. Desai, A.B. Kulkarni and S. Srikanta Swamy (1987) (Book Chapter)*
Synthesis of a New Proton Conductor- $\text{NH}_4\text{Zr}_2\text{V}_3\text{O}_{12}$
Physics of Materials, Ed: M. Yussouff (World Scientific Publishers, Singapore, pp. 217-221)
38. *K. Byrappa, N.B. Desai, A.B. Kulkarni and G.S. Gopalakrishna (1987)*
(Impact Factor: 0.944)
Ionic Conductivity and Hopping Rate Data for some NASICON Analogs
Bull. Mater. Sci. Vol.9, pp. 117-121
39. **K. Byrappa, J. Shashidhara Prasad and S. Srikanta Swamy (1986) (Impact Factor: 1.8)*
High Temperature X-ray Diffraction Studies of Berlinite Crystals
J. Mater. Sci. Letts. Vol.5, p. 1189, U.K.
40. *K. Byrappa, A.B. Kulkarni, S. Srikanta Swamy and N.B. Desai (1987) (Impact Factor: 1.8)*
Ionic Conductivity Measurements for $\text{AlPO}_4 : \text{M}$ (M=Li, Na) Crystals
J. Mater. Sci. Letts. Vol. 6, p. 1053, U.K.
41. *K. Byrappa, G.S. Gopalakrishna, A.B. Kulkarni and N.B. Desai (1988)*
(Impact Factor: 1.8)
Impedance Measurements for some NASICON Analogues
J. Mater. Sci. Letts. Vol. 138, pp. 1-6, U.K.
42. *K. Byrappa, N.B. Desai, A.B. Kulkarni and S. Srikanta Swamy (1987)*
High Temperature X-ray Diffraction Studies of the New Polymorphic Modification of AlPO_4
Indian Journal of Physics, Vol. 62A, pp. 353-358
43. *K. Byrappa, N.B. Desai, A.B. Kulkarni and S. Srikanta Swamy (1987)*
(Impact Factor: 0.944)
 $\text{NH}_4\text{Zr}_2\text{V}_3\text{O}_{12}$ Proton Conductor
Bull Mater. Sci. Vol.9, p. 323.
44. *N.B. Desai, K. Byrappa, A.B. Kulkarni and G.S. Gopalakrishna (1987)*
(Impact Factor: 0.944)
Conductivity Pre-exponential Factors for some New Superionic Conductors
Bull. Mater. Sci. Vol.9, p. 317
45. *A.B. Kulkarni, N.B. Desai, S.K. Patil, K. Byrappa, G.S. Gopalakrishna and S. Srikanta Swamy (1987)*
Frequency Dependent Conductivity of a New Superionic Conductor, $\text{NH}_4\text{Zr}_2\text{V}_3\text{O}_{12}$
Proc. Solid State Physics Symposium, Dec. 27-31, 1987, Bombay.
46. *N.B. Desai, K. Byrappa, G.S. Gopalakrishna, S. Srikanta Swamy and A.B. Kulkarni (1987)*
(Impact Factor: 0.944)

- Conductivity Pre-Exponential Factors for Some New Superionic Conductors
Bull. Mater. Sci. Vol.10, pp 1-7
47. S.K. Patil, A.H. farooqui, A.B. Kulkarni, K. Byrappa and G. S. Gopalakrishna (1989)
 Analysis of Single Impedance Arcs of a New Superionic Conductor
Bull. Electrochem. Vol.5, pp. 467-470
 48. D. Despande, S.K. Patil, A.H. Farooqui, N.B. Desai, K. Byrappa and A.B. Kulkarni (1989)
 Electronic Equivalent Circuit for a New Superionic conductor $\text{Na}_2\text{Zr}(\text{VO}_4)_2$
Indian Journal of Physics, Vol. 63A, pp. 506-512.
 49. K. Byrappa (1989)
 Recent Progress in the Growth of Piezoelectric Berlinite Crystals (REVIEW)
Indian Journal of Physics, Vol. 63A, pp.303-320.
 50. K. Byrappa, G.S. Gopalakrishna and Salvador Gali (1989)
 Synthesis and Characterization of New Superionic Pyrophosphates
Indian Journal of Physics, Vol. 63A, pp. 321-325.
 51. *Salvador Gali, K. Byrappa and G.S. Gopalakrishna (1989) (Impact Factor: 0.8)
 Structure of $\text{Na}_2\text{MZr}(\text{P}_2\text{O}_7)$, (M=Ni, Co)
Acta Crist. Vol.C45, pp. 1667-1669, DENMARK
 52. K. Byrappa and U.D. Prahllad (1989) (Impact Factor: 1.8)
 Thermal Expansion of Berlinite
J. Mater. Sci. Letts. Vol.8, pp. 1667-1669, U.K.
 53. *K. Byrappa, S. Srikanta Swamy and Salvador Gali (1990) (Impact Factor: 1.8)
 Hydrothermal Synthesis and Structure of $\text{TmP}_5\text{O}_{14}$
J. Mater. Sci. Letts. Vol.9, pp. 235-236, U.K.
 54. Salvador Gali and K. Byrappa (1990) (Impact Factor: 0.8)
 Structure of $(\text{Na}_{2/3}\text{Zr}_{1/3})_2\text{P}_2\text{O}_7$
Acta Crist. Vol.C46, p. 2011, DENMARK
 55. * K. Byrappa, Salvodor Gali, A.b. Kulkarni, G. Narendranath, B.M.R. Wanklyn and
 S.K. Patil (1990) (Impact Factor: 1.8)
 Synthesis and Characterization of $\text{K}_2\text{Ti}_6\text{O}_{13}$
J. Mater. Sci. Letts. Vol. 9, p. 898, U.K.
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150. *M. Yoshimura and K. Byrappa (2008) **(Impact Factor: 1.8)**
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151. P.G. Smitha, K. Byrappa and S.N. Ramaswamy (2007) **(Impact Factor: 0.48)**
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Karnataka, India
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152. K. Byrappa, P.G. Smitha and C.P. Sajan (2007)
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areas of Karkala Taluk, Karnataka State, India
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(2008) **(Impact Factor: 1.8)**
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applications
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155. *B. Basavalingu, P. Madhusudan, A.S. Dayananda, K. Lal, K. Byrappa and M. Yoshimura
(2008) **(Impact Factor: 1.8)**
Formation of filamentous carbon through dissociation of chromium carbide under
hydrothermal conditions
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156. K. Byrappa, M.K. Devaraju, J.R. Paramesh, B. Basavalingu and K. Soga (2008)
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158. K. Byrappa, B.V. Suresh Kumar, G.V. Narasimha Rao, M.S. Vijaya Kumar, C.
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159. H.S. Dayananda, K.S. Lokesh and K. Byrappa (2009) **(Impact Factor: 1.8)**
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- Simple processing of ZnO from solution: Homoepitaxial Film and Bulk Single Crystal
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163. B.V. Suresh Kumar, Siddaramaiah, M.B. Shayan, K.S. Manjula, C. Ranganathaiah, G.V. Narasimha Rao, B. Basavalingu and K. Byrappa (2009) **(Impact Factor: 1.8)**
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164. P.G. Smitha, B.V. Suresh Kumar and K. Byrappa (2009)
 Study of Soil chemistry form Bantwal Taluk, Southwestern Karnataka, India
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165. T. Adschiri and K. Byrappa (2009) **(Book Chapter)**
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 In: **Springer Handbook of Crystal Growth**, Eds: G. Dhanaraj, K. Byrappa, M. Dudley and V. Prasad, Publishers: Springer-Verlag, Germany (in print)
172. B. Shahmoradi, I.A. Ibrahim, K. Namratha, N. Sakamoto, S. Ananda, R. Somashekar, K. Byrappa (2010) **(Impact Factor: 0.9)**
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173. H.N. Girish, M.S. Vijayakumar, M.K. Devaraju, K. Byrappa and B. Basavalingu (2010)
(Impact Factor: 0.4)

- Hydrothermal Synthesis and Characterization of Neodymium Doped Yttrium Aluminium Perovskite (Nd:YAP)
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174. K. Namratha, M.B. Nayan and K. Byrappa (2011) **(Impact Factor: 1.8)**
Hydrothermal Synthesis and Photocatalytic Properties of Modified and Unmodified Zinc Oxide Nanoparticles.
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(Impact Factor: 4.8)
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Nanoscale, Royal Society of Chemistry, UK Vol. 2 (2010) 1160-1164.
176. B. Shahmoradi, N. Sakamoto, K. Soga, K. Byrappa (2010) **(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, Vol. 31 (2010) 1213 USA.
177. K. Byrappa and K. Namratha (2011) **(Review)**
Novel Solution Routes of Metal Oxide and Hybrid Metal Oxide Nanomaterials
Progress in Crystal Growth and Characterization of Materials, UK, Vol.58[2] (2012) 14-42.
178. Behzad Shahmoradi, K. Namratha, K. Byrappa, K. Soga, S. Ananda and R. Somashekar (2011) **(Impact Factor: 0.9)**
Enhancement of Photocatalytic Activity of modified ZnO Nanoparticles with Manganese Additive
Research on Chemical Intermediates 37 (2011) 329-340.
179. Chithranjan Rai, K. Byrappa and S.M. Dharmaprakash (2011) **(Impact Factor: 0.85)**
Crystal Growth and Dielectric, Mechanical, Electrical and Ferroelectric Characterization of *n*-bromo Succinimide Doped Triglycine Sulphate Crystals
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180. K. Namratha, S. Suresha, M.B. Nayan and K. Byrappa (2010) **(Impact Factor: 0.9)**
Synthesis, Characterization and Photocatalytic Properties of Silver Doped ZnO
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181. K. Namratha, K. Byrappa, Dirk Ehrentraut and K. Fujii (2011)
Hydrothermal Synthesis and Characterization of Doped Zinc Oxide Polyscale Crystals
J. Mater. Chemistry (Submitted)
182. B. Shahmoradi, A. Maleki and K. Byrappa (2011) **(Impact Factor: 2.432)**
Photocatalytic degradation of Amaranth and Brilliant Blue FCF dyes using in situ modified tungsten doped TiO₂ hybrid nanoparticles
Catal. Sci. Technol. DOI: 10.1039/c1cy00023c.
183. T. Parvin, S. Phanichphant, J.G. Morales, I. A. Ibrahim, R. Somashekar, S. Ananda and K. Byrappa (2011) **(Impact Factor: 1.8)**
Hydrothermal synthesis and characterization of tin doped ZnO polyscale crystals with hexylamine additive
Materials Research Innovations 16[1] (2012) 25-29.
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(Impact Factor: 1.7)
Photocatalytic degradation of municipal wastewater and Brilliant Blue dye using hydrothermally synthesized surface modified silver doped ZnO designer particles
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185. K. Namratha, K. Byrappa, A. Jamuna Bai and V. Ravishankar Rai (2011)
Novel Solution Routes of Synthesis, Characterization and Antimicrobial Activity Study of Selectively Doped ZnO Designer Nanoparticles

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Preparation, Characterization and Biological Activity of Selectively Doped ZnO Nanoparticles

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Hydrothermal Synthesis and Photocatalytic Studies of *in situ* surface modified Silver Doped ZnO Nanoparticles

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188. B. M. Venkatesha, R. T. Radhika, S. Ananda. K. Byrappa (2011) **(Impact Factor: 0.9)**
Oxidative decolorization of indigo caramine dye with chloramine-T catalyzed by cobalt(II)

Research on Chemical Intermediates 37 (2011) 195-199.

189. 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, UK, Vol.58[2] (2012) 51-59.

190. P. Parameswara, T. Demappa, M. Mahadevaiah, Y. Prakash, H. Somashekarappa, K. Byrappa and R. Somashekar (2012)
Polymeric degradation of water soluble chitosan/HPMC films using WAXS data.
Materials Research Innovations (in print) (Impact Factor: 1.75)

191. K. Namratha, K. Byrappa, Jamuna Bai, Ravishankar Rai, Dirk Ehrentraut, I.A. Ibrahim and M. Yoshimura (2012)
Materials Science and Engineering C (submitted) (Impact Factor: 2.4)

192. K. Namratha, Jamuna Bai, Ravishankar Rai, Dirk Ehrentraut, I.A. Ibrahim, M. Yoshimura and K. Byrappa (2012)
Preparation, Characterization, Biological and Photocatalytic Activities of Pd Doped ZnO Nanoparticles
Biomaterials (Submitted) (Impact Factor: 9.023)

iii) Papers in Conference/Seminar/Proceedings

Papers Presentation and Participation in the International Conferences/ Workshops/ Schools held abroad

1. Recent Progress in the Novel Hydrothermal Solution Processing of Advanced High Melting Nanomaterials (**Invited Talk**)
K. Byrappa and K. Namratha
10th International Symposium on Advanced Organics Photonics and 1st International Symposium on Super-hybrid Materials, Sept. 28-Oct. 02, 2010, Tokyo & Sendai, **Japan**.
2. Novel Routes of Hydrothermal Solution Processing of Advanced Nanomaterials (**Keynote Talk**)
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
3. Novel Hydrothermal Solution Routes of Advanced Nanomaterials and Nanoceramic Processing (**Invited Talk**)
12th International Ceramics Congress, Montecatini Terme, Tuscani, **Italy**, June 06 – 11, 2010.
4. Crystallization of Polyscale Materials Through Hydrothermal Routes (**Invited Talk**)
International School of Crystallization, May 24-28, 2010, Granada **Spain**
5. Synthesis, Characterization and Photocatalytic Properties of Silver Doped ZnO
K. Namratha, S. Suresha, M.B. Nayan and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
6. *In situ* hydrothermal Surface Modification and Photoluminescence Properties of ZnO Nanocrystals
K. Soga, D. Ehrentraut, K. Namratha and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
7. Synthesis of Iron-Pyridoxine Complex by Solvothermal process, its Structural Characterization and Anti-Oxidant Activity Evaluation
G. Chaitanya Lakshmi, S. Ananda, Netkal M. Made Gowda, B.R. Srilatha and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
8. Hydrothermal Synthesis, Surface Modification and Photocatalytic Properties of ZnO Designer Particulates
K. Namratha and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
9. Semiconductor Assisted Photodegradation of Dyes, Pesticides and Industrial Effluent by ZnO:Ru and ZnO/RuO₂/AgO Nanocomposites, Synthesized by Electrolytic Method
S. Ananda, G. Chaitanya Lakshmi, R. Somashekar, C. Ranganathaiah and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
10. Hydrothermal Synthesis and Photocatalytic Properties of Pure and Doped ZnO Fine Crystals
M.B. Nayan, K. Namratha and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010) July 27-29, 2010, Beijing, **China**.
11. Enhancement of Photocatalytic Activity of Modified Mn Doped ZnO Nanoparticles
B. Shahmorady, K. Namratha, K. Byrappa, K. Soga, S. Ananda and R. Somashekar

- 2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010)
July 27-29, 2010, Beijing, **China**.
12. Decolouration of Indigo Carmine Dye by Oxidation Process Using Cobalt(II) and Chloramine-T
B.M. Venkatesha, R.T. Radhika, S. Ananda and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010)
July 27-29, 2010, Beijing, **China**.
 13. Extraction of Biomaterial from the Medicinal Plant: A Study of Antidiabetic Activity
S. Ananda, B.R. Srilatha and K. Byrappa
2nd International Solvothermal and Hydrothermal Association Conference (ISHA-2010)
July 27-29, 2010, Beijing, **China**.
 14. Synthesis, characterization and photocatalytic property of rare earth vanadates,
Chandrashekar C.K. B. Basavalingu, T. Parvin, K.M. Lokanatha Rai, K. Soga, D. Revanasiddaiah, and K.Byrappa
ISHA 2008, University of Nottingham, **UK**, 8-10, September 2008
 15. Hydrothermal Synthesis of Cr Doped ZnO and its Application in the Photodegradation of Textile Waste
Sajan C.P. S. Ananda, G.V. NarasimhaRao, M.S. Vijayakumar and K. Byrappa
ISHA 2008, University of Nottingham, **UK**, 8-10, September 2008
 16. Hydrothermal Coating and Properties of TiO₂ Fine Crystals on Calcium Silicate Beads
Shivaraju H.P T. Rungnapa, S. Pakamard, M.S. Vijayakumar, G.V.Narasimha Rao, C. Ranganathaiah and K.Byrappa
ISHA 2008, University of Nottingham, **UK**, 8-10, September 2008
 17. Hydrothermal Synthesis and Properties of Modified TiO₂ Nanoparticles
Shahmoradi Behzad, C.P. Sajan, T. Parvin and K. Byrappa
ISHA 2008, University of Nottingham, **UK**, 8-10, September 2008
 18. Hydrothermal growth and characterization of rare earth vanadate polyscale crystals
K. Soga, K. Byrappa
IUCr 2008, **Osaka, Japan**, 23-31. August, 2008
 19. Hydrothermal synthesis of doped ZnO and its application in photodegradation of toxic amaranth dye
K. Byrappa
IUCr 2008, **Osaka, Japan**, 23-31. August, 2008
 20. Hydrothermal Growth of Polyscale Rare Earth Vanadate Crystals (**Keynote Talk**)
4th Asian Crystal Growth Technology Conference, May 21-25, 2008, Sendai, Japan
 21. Novel Routes of Processing of Advanced Materials (**Keynote Talk**)
International Symposium on Soft Solution Processing, Tokyo, Japan March 7-8, 2008
 22. Hydrothermal Technology towards Green Processing of Advanced Materials
K. Byrappa
SUPER GREEN 2007, November 28 – December 01, 2007, Seoul, South Korea.
 23. Doyama Symposium, **Tokyo, Japan**, Sept. 05-08, 2007.
 24. Growth of Diamond Nano Crystals
P. Madhusudan, B. Basavalingu, K. Byrappa, M. Yoshimura and K. Soga
International Conference on Crystal Growth (ICCG-15), **Salt Lake City, USA**, August 11-17, 2007.
 25. Polyurethane: TiO₂ composite and its photocatalytic properties
C.P.Sajan, M.B.Shayan, K.S.Manjula, Siddaramaiah, H.S.Dayananda, K Gaurav, Sridevi, K.Byrappa and T.Adschiri
The 2nd International Conference on Advances in petrochemicals and polymers, (ICAPP2007) **Bangkok, Thailand**, June 25-28, 2007.

26. Novel (Solutions, Liquid or Fluid) Routes of Advanced Nanomaterial Processing
(Invited Talk)
K. Byrappa, T. Adschiri
STAC-JTMC, Shonan Village Center (**Kanagawa**), **Japan**, May 23-25, 2007.
27. Subcritical to Supercritical hydrothermal synthesis of rare earth vanadate crystals (Invited Paper)
K. Byrappa, C.K. Chandrashekar, K. Tanaka, S. Ohara and T. Adschiri
1st International Symposium on Applications of Supercritical Fluids in Green Chemistry and Materials Science, **Beijing, China**, March 1-4, 2007.
28. Attended the Conference and Chaired Microsymposium in Joint Conference of Asian Crystallographic Association and Crystallographic Society of Japan, Epochal, **Tsukuba, Japan**, 20-23 November 2006.
29. Synthesis and characterization of nanofoms of carbon and yttrium aluminium perovskites (YAP) under supercritical conditions
K. Byrappa, B. Basavalingu, P. Madhusudan, A.S. Dayananda, T. Adschiri and M. Yoshimura
8th International Symposium on Supercritical Fluids, **Kyoto, Japan**, Nov.5-8, 2006.
30. Microwave assisted synthesis of thio esters and thioamides using potassium thiocyanate as thionating agent
J.T. Joseph, S.L. Gaonkar, K.M.L. Rai, K. Byrappa
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
31. Synthesis of benhydrol derivatives by metal imidozalen catalyzed electrophilic addition of aromatic aldehydes to hydrocarbon under solvothermal condition
K. Jailakshmi, K.M.Lokanatha Rai, K. Byrappa
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
32. Mild hydrothermal synthesis and characterization of silver sulphide
B.Basavalingu, S. Vasuki, R. Somashekar, K. Byrappa
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
33. Hydrothermal and Solvothermal Routes for the Synthesis of Carbon Composites by caging Zinc Oxide and Titanium Oxide in the NaNO Forms of Carbon
A.S. Dayananda, B. Basavalingu, K. Soga, K. Byrappa, M. Yoshimura, C.P. Sajan
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
34. Hydrothermal preparation of photocatalytic material ZnO impregnated Activated Carbon using hyacinth for the degradation of toxic organic compounds in industrial
S. Srikant Swamy, K. Byrappa, M. Yoshimura
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
35. Synthesis and Characterization of Rare Earth Phosphate Bio-Imaging Phosphors
K. Soga, K. Byrappa, J.R. Paramesh, H.N. Girish, B. Basavalingu
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
36. Investigation of Yttrium Vanadate System under Hydrothermal and Solvothermal Conditions
K. Byrappa, C.K. Chandrashekar, B. Basavalingu, K.M. Lokanatha Rai, K. Soga
Joint 8th International Symposium on Hydrothermal Reactions & 7th International Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
37. Formation of Filamentous Carbon through Dissociation of Chromium Carbide under Hydrothermal Conditions

- P. Madhusudan, B. Basavalingu, K. Byrappa, A.S. Dayananda, K. Soga, M. Yoshimura
Joint 8th International Symposium on Hydrothermal Reactions & 7th International
Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
38. Aluminophosphate zeolites encapsulating clusters of TiO₂ and ZnO under hydrothermal conditions
B.V. Suresh Kumar, K. Byrappa, C. Ranganathaiah, K. Soga, C.P. Sajan
Joint 8th International Symposium on Hydrothermal Reactions & 7th International
Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
 39. Hydrothermal Preparation of Photocatalyst- Activated Carbon Composite (TiO₂/ZnO-AC)
and its Application
A.K. Subramani, R. Dinesh, K.L.M. Rai, S. Ananda, N. Matsushita, K. Byrappa, M.
Yoshimura
Joint 8th International Symposium on Hydrothermal Reactions & 7th International
Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
 40. Hydrothermal Synthesis and Characterization of Yttrium aluminium Perovskites (YAP)
B. Basavalingu, H.N. Girish, K. Byrappa, K. Soga
Joint 8th International Symposium on Hydrothermal Reactions & 7th International
Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
 41. Novel Methods of Processing of Some Advanced Materials for Sustainable Technology
K. Byrappa
International Symposium on Sustainable Materials Engineering, **Sendai, Japan**, 4,
August, 2006
 42. Novel Methods of Materials Synthesis for Advanced Oxidation Process and Degradation of
Toxic Organics and Effluents
K. Byrappa, C.P. Sajan, A.K. Subramani, K.M.L. Rai, S. Ananda, M. Yoshimura
Joint 8th International Symposium on Hydrothermal Reactions & 7th International
Conference on Solvothermal Reactions, **Sendai, Japan**, August, 2006.
 43. Green Processing of Advanced Materials
K. Byrappa
International Workshop on Green Processing of Materials, August 03, 2006. Sendai, Japan.
 44. Novel methods of processing of advanced materials for polyscale technologies, **Tokyo
University of Science**, 10, August, 2006. 3rd International Workshop on water Dynamics,
Sendai, Japan, 16,17 Nov., 2005.
 45. Hydrothermal Crystallization and Characterization of R⁺³:AlPO₄ Zeolites, where R=Ce, Pr
and Nd.
K. Byrappa, B.V. Suresh Kumar, C. Ranganathaiah, R. Somashekar, R. Dinesh, K.M.L.
Rai and S. Ananda
XX Congress of the International Union of Crystallography, Congress and General
Assembly, 23-31 August 2005, **Florence**.
 46. Hydrothermal Preparation of TiO₂: AC Composite Crystalline Particulates
A.K. Subramani, K. Byrappa, R. Dinesh, K.M.L. Rai, S. Ananda, M. Yoshimura
XX Congress of the International Union of Crystallography, Congress and General
Assembly, 23-31 August 2005, **Florence**.
 47. Synthesis of Nano Size Carbon Particles
B.Basavalingu, K. Byrappa, P. Madhusudan, A.S. Dayananda, S. Srikantaswamy, M.
Yoshimura
ICMAT 2005 AND ICAM 2005 **Singapore** 3-8 July 2005.
 48. Hydrothermal Preparation of Various Photocatalytic Materials and its Applications
K. Byrappa, A.K.Subramani, K.M. Lokanatha Rai, R. Dinesh and M.Yoshimura
ICMAT 2005 AND ICAM 2005 **Singapore** 3-8 July 2005.
 49. Hydrothermal Carbon: Synthesis and Reaction of Various Carbon Materials under

Hydrothermal Conditions

- 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
7th International Symposium on Hydrothermal Reactions, **Changchun, China**, Dec. 14-18, 2003
50. Photocatalytic Degradation of Indigo Carmine Dye Using TiO₂ Supported Activated Carbon and Commercial TiO₂
K. Byrappa, A.K. Subramani, S. Ananda, K.M.L. Rai, B. Basavalingu and S. Srikantaswamy
7th International Symposium on Hydrothermal Reactions, **Changchun, China**, Dec. 14-18, 2003
51. Hydrothermal Growth of Nd: YVO₄ Crystals
K. Byrappa, B. Nirmala, Ramaningaiyah, K.M. Lokanatha Rai and M. Yoshimura
7th International Symposium on Hydrothermal Reactions, **Changchun, China**, Dec. 14-18, 2003
52. Synthesis of Aryl Ketones Via Decarboxylation of Aromatic Acids Under Solvothermal Conditions
M. Suresh Babu, K.M. Lokanatha Rai, K. Byrappa and R.E. Riman
7th International Symposium on Hydrothermal Reactions, **Changchun, China**, Dec. 14-18, 2003
53. Solar Light Induced Photodegradation of Pharmaceutical Effluent Using Hydrothermally Impregnated Activated Carbon
K. Byrappa, A.K. Subramani, K.M.L. Rai, S. Ananda, B. Basavalingu and S. Srikantaswamy.
7th International Symposium on Hydrothermal Reactions, **Changchun, China**, Dec. 14-18, 2003
54. Hydrothermal Synthesis, Kinetic Study and Characterization of Some Selected Aluminophosphate Zeolites
K. Byrappa, M.S. Vijaya Kumar, S. Ananda, K.M.L. Rai, B.V. Suresh Kumar
7th International Symposium on Hydrothermal Reactions, **Changchun, China**, Dec. 14-18, 2003
55. Photocatalytic Degradation of Nitroarenes using Activated Carbon / TiO₂ Photocatalyst
K. Byrappa, R. Dinesh, K.M. Lokanatha Rai and M. Yoshimura
IUMRS-ICAM 2003, **Yokohama, Japan**, October 08-13, 2003
56. Treatment of Textile Effluent Using Photocatalytic ZnO Prepared Under Mild Hydrothermal Conditions
K. Byrappa, A.K. Subramani, K.M. Lokanatha Rai, S. Srikantaswamy and M. Yoshimura
IUMRS-ICAM 2003, **Yokohama, Japan**, October 08-13, 2003
57. Synthesis, Kinetics and Characterization of AlPO₄ Zeolite
M.S. Vijaya Kumar, K. Byrappa, C. Ranganathaiah, S. Ananda and M. Yoshimura
IUMRS-ICAM 2003, **Yokohama, Japan**, October 08-13, 2003
58. Hydrothermal Synthesis of Hydroxyapatite Designer Particulates
K. Byrappa, C-W.Chen, C.Oakes, W.Suchanek, P.Shuk, Y.Liu, M.Senna* and R. E. Riman
5th New Jersey Symposium on Biomaterials Science, **Somerset, New Jersey, USA**, November 9 – 10, 2000.
59. Dissociation of Silicon Carbide in the Presence of Organic Compounds under Hydrothermal Conditions
B.Basavalingu, J.M.C.Moreno, K.Byrappa, Y.Gogosti and M.Yoshimura
International Workshop on Soft Solution Processing, **Tokyo Institute of Technology, Tokyo, Japan**, Dec.11-13, 2000

60. Hydrothermal Crystallization and Properties of AlPO_4 -11
K. Byrappa, B.V.Suresh Kumar, and K.M. Lokanath Rai
International Workshop on Soft Solution Processing, **Tokyo Institute of Technology, Tokyo, Japan**, Dec.11-13, 2000
61. Crystal Growth of $\text{Nd}:\text{GdVO}_4$ Single Crystals under Mild Hydrothermal Conditions
K. Byrappa, B.Nirmala, K.M. Lokanath Rai and M. Yoshimura
International Workshop on Soft Solution Processing, **Tokyo Institute of Technology, Tokyo, Japan**, Dec.11-13, 2000
62. Impregnated Activated Carbon as Photocatalyst for Organic Waste Water Treatment
K. Byrappa, R. Dinesh, K.M. Lokanath Rai, M. Yoshimura, and B. Basavalingu
International Workshop on Soft Solution Processing, **Tokyo Institute of Technology, Tokyo, Japan**, Dec.11-13, 2000
63. Hydrothermal Preparation of Hydroxyapatite
K. Byrappa, C.S. Oakes and R.E. Riman
International Workshop on Soft Solution Processing, **Tokyo Institute of Technology, Tokyo, Japan**, Dec.11-13, 2000
64. Synthesis of Hydroxyapatite Designer Particulates
R.E. Riman, W.L. Suchanek, K. Byrappa, C.-W. Chen, C.S. Oakes, M. Senna
International Workshop on Soft Solution Processing, Tokyo Institute of Technology, **Tokyo, Japan**, Dec.11-13, 2000
65. Hydrothermal Synthesis of Hydroxyapatite Designer Particulates
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
66. Photocatalytic Degradation of Phenols Using Hydrothermally Treated Activated Carbons
K.Byrappa, K.M.Lokanatha Rai, R.Dinesh and M.Yoshimura
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, **Kochi, Japan**, July 25-28, 2000
67. Hydrothermal Synthesis and Characterization of Aluminophosphate Zeolites
B.V.Suresh Kumar, K.M.Lokanath Rai and K.Byrappa
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, **Kochi, Japan**, July 25-28, 2000
68. Crystal Growth of Rare Earth Vanadate Laser Hosts and *In-Situ* Fabrication of their Crystal Morphology under Mild Hydrothermal Conditions
K.Byrappa, B.Nirmala and K.M.Lokanatha Rai
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, **Kochi, Japan**, July 25-28, 2000
69. Photocatalytic Degradation of Nitroarenes using Impregnated Activated Carbons
K.Byrappa, K.M.Lokanatha Rai, R.Dinesha and M.Yoshimura
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, **Kochi, Japan**, July 25-28, 2000
70. Hydroxyapatite: Crystallization Fundamentals
K. Byrappa and R.E. Riman
Joint 6th International Conference on Hydrothermal Reactions and 4th International Conference on Solvothermal Reactions, **Kochi, Japan**, July 25-28, 2000
71. Preparation of Hydroxyapatite Designer Particulates
K. Byrappa and R.E. Riman
4th International Workshop on Soft Solution Processing of Inorganic Materials, **Tokyo Institute of Technology, Tokyo, Japan**, Feb.28- March 1, 2000.
72. Hydrothermal Synthesis of Hydroxyapatite Particulates
K. Byrappa, W.L. Suchanek and R.E. Riman

- 14th Annual Symposium of the Laboratory for Surface Modification, **Rutgers University, USA**, Feb. 13, 2000
73. Crystal Growth and Characterization of Rare Earth Phosphates
K.Byrappa and J.R.Paramesha
International Rare Earth Conference, **Fremantle, Australia**, November 18-22, 1998
 74. Crystal Growth of Nd: RVO₄ (Where R=Y, Gd) under Mild Hydrothermal Conditions.
K.Byrappa, B.Nirmala and M.Yohsimura
International Rare Earth Conference, **Fremantle, Australia**, November 18-22, 1998
 75. Study of Hydrothermal Crystallization Processes in some Phosphate and Tungstate Systems
K.Byrappa.
2nd International Conference on Solvothermal Reactions, December 18-20, 1996,
Takamatsu, Japan.
 76. Hydrothermal Growth of Crystals
K.Byrappa.
International Summer School on Crystal Growth, September 4-14, 1994, **Cracow, Poland.**
 77. Berlinite, the Piezoelectric Crystal for the future
K.Byrappa.
CIRIT Course, July 10 – 12, 1990, **Barcelona, Spain.**
 78. 6th International Summer School on Crystal Growth
August 26-31, 1989, **Zao, Japan.**
 79. Crystal Growth and Morphology of Berlinite
K.Byrappa, S.Srikantaswamy and K.Sangwal
9th International Conference on Crystal Growth, August 20-25, 1989, **Sendai, Japan.**
 80. Growth and Properties of New Polymorphic Modification of AlPO₄.
K.Byrappa, J.Shashidhara Prasad and S.Srikantaswamy
8th International Conference on Crystal Growth, July 13-18, 1986, **York, UK.**
 81. Synthesis and Characterization of New Superionic Triorthophosphates
K.Byrappa, A.B.Kulkarni and G.S.Gopalakrishna
6th International Conference on Crystal Growth, July 13-18, 1986, **New York, UK.**
 82. Synthesis and Characterization of AlPO₄: Nd
K.Byrappa, J.Shachidhara Prasad and S.Srikantaswamy
XVI International Rare Earth Research Conference, **Hamilton Canada**, June 9-12, 1986.
 83. Ionic Conductivity in Na₂(R, Me)MP₃O₁₂ Crystal
K.Byrappa, A.B.Kulkarni and G.S.Gopalakrishna
XVI International Rare Earth Research Conference, **Hamilton Canada**, June 9-12, 1986.
 84. 6th International Congress on High-Tec. Ceramics
May 22-28, 1986, **Milan, Italy.**
 85. Synthesis and Characterization of Na₂(R, Co)Zr(PO₄)₃ Crystals
K.Byrappa, G.S.Gopalakrishna, A.B.Kulkarni and V.Venkatachalapathy
 86. International Rare Earth Conference, IREC 85, March 3 – 8, 1985, **Zurich, Switzerland**
Ionic Conductivity in Na₂(La, Co)ZrP₃O₁₂ Crystals
K.Byrappa, A.B.Kulkarni and G.S.Gopalakrishna
International Rare Earth Conference, IREC 85, March 3-8, 1985, **Zurich, Switzerland.**
 87. Hydrothermal Synthesis and Crystallization of Crystals of NASICON Analogues Superionic Conductors
K.Byrappa, G.S.Gopalakrishna, A.B.Kulkarni and V.Venkatachalapathy
IX European Crystallographic meeting **Torino, Italy**, September 2-6, (1985).
 88. Ionic Conductivity in Na₂(La, Al)ZrP₃O₁₂ Crystals
K.Byrappa, A.B.Kulkarni and G.S.Gopalakrishna
IX European Crystallographic meeting, **Torino, Italy**, September 2-6, 1985.

89. Growth of a New Miniature Laser Material
K.Byrappa and B.N.Livin
European Conference on the Materials for Electronics, August 20-25, 1982,
Czechoslovakia
90. Hydrothermal Synthesis of $\text{CsNdP}_4\text{O}_{12}$.
K.Byrappa, B.N.Livin and A.A.Kiryukhin
International Symposium on Hydrothermal Reactions, March 22-26, 1982, **Tokyo, Japan.**
91. Growth and Crystal Chemistry of $\text{MNdP}_4\text{O}_{12}$ (where M = Na, Li, K, Rb, & Cs)
K.Byrappa, B.N.Litvin, N.N.Chudinova and N.V.Vinogradova
Phosphates – 1981, November 13-17, **Leningrad, USSR.**
92. X-ray and IR-spectral studies of $\text{CsREP}_4\text{O}_{12}$.
K.Byrappa, I.I.Plyusnina and G.I.Dorokhova
XII International Congress of Crystallography, Aug. 16-25, (1981) **Ottawa, Canada.**
93. Growth and Characterization of $\text{CsNdP}_4\text{O}_{12}$.
K.Byrappa
VI International Conference on Crystal Growth, **Moscow**, Sept. 10-16, (1980)
94. International UNESCO School on Advances in Crystallography and Materials Science
Ettore Majorana International Centre for Crystallography, April 14 – 24, 1980, **Erice, Italy.**
95. Investigations of Phases and Crystallization in the System $\text{Cs}_2\text{O}-\text{Nd}_2\text{O}_3-\text{P}_2\text{O}_5-\text{H}_2\text{O}$.
K.Byrappa and B.N. Litvin
II European Conference on Crystal Growth **Lancaster, England**, Sept. 10-15 (1979).

Papers Presentation/ Participation in National and International Conferences
held in India

1. Recent Advances in Nanomaterials Processing (**Plenary Talk**)
K. Byrappa
Advances in New Engineering Materials and Characterization (AMC-2010)
28.12.2010, Sullia, D.K., **India**
2. Hydrothermal Synthesis and Characterization of TiO₂ for Photocatalytic Degradation of Brilliant Blue Dye
Parwin Tabasom and K. Byrappa
Advances in New Engineering Materials and Characterization (AMC-2010)
28.12.2010, Sullia, D.K., **India**
3. Synthesis and Characterization of Metal Oxides for Energy Applications (**Invited Talk**)
K. Byrappa and K. Namratha
International Conference on Applications of Renewable and Sustainable Energy for Industry and Society (REIS 2010), December 16-18, 2010, **Hyderabad, India.**
4. Synthesis and Characterization of ZnO under mild Hydrothermal Conditions
K. Namratha and K. Byrappa
International Conference on Applications of Renewable and Sustainable Energy for Industry and Society (REIS 2010), December 16-18, 2010, **Hyderabad, India.**
5. Hydrothermal Synthesis, Characterization and Photocatalytic Activity of TiO₂ Polyscale Crystals for Rhodamine B Degradation
Tabasom Parvin and K. Byrappa
International Conference on Applications of Renewable and Sustainable Energy for Industry and Society (REIS 2010), December 16-18, 2010, **Hyderabad, India.**
6. Design and Synthesis of Advanced High Melting Nanocrystals through Novel Routes of Solution Processing (**Invited Talk**)
K. Byrappa and K. Namratha
39th National Seminar on Crystallography, October 25-27, 2010, **Jammu, India**
7. *In Situ* Surface Modification of ZnO Nanocrystals under Solvothermal Conditions and their Photocatalytic Properties
K. Namratha and K. Byrappa
39th National Seminar on Crystallography, October 25-27, 2010, **Jammu, India**
8. Surface Modification of TiO₂ and ZnO Polyscale Crystals and their Environmental Applications
Tabasom Parvin and K. Byrappa
39th National Seminar on Crystallography, October 25-27, 2010, **Jammu, India**
9. Hydrothermal Growth of High Melting Polyscale Crystals (**Invited Talk**)
K. Byrappa, S.P. Madhusudan and B. Basavalingu
National Symposium on the Growth of Detector Grade Single Crystals (NSGDSC-2009)
Nov. 19-21, 2009, BARC, **Mumbai, India.**
10. Hydrothermal Synthesis and Characterization of TiO₂ Nanostructures on the Substrate and their Photocatalytic Performance
H.P.Shivaraju, C.P.Sajan, K.Byrappa, T.Runghana, M.S.Vijay Kumar, C.Ranganathaiah and T.N. Guru Row
38 National Seminar on Crystallography-200, 11-13, February 2009
11. Hydrothermal synthesis, characterization and application of In:ZnO
C.P. Sajan, J Komal Kumar, S. Ananda, and K. Byrappa
38 National Seminar on Crystallography-200, 11-13, February 2009

12. Synthesis, Characterization and Application of Modified Nd:ZnO for Treatment of Pharmaceutical Effluents
Behzad Shahmoradi, N. Sakamoto, K. Byrappa
38 National Seminar on Crystallography-200, 11-13, February 2009
13. Hydrothermal Coating of ZnO onto Calcium Alumino Silicate Beads and its Photocatalytic Activity on Indigo Carmine Dye
Shivaraju H.P, Toubha Khosravi, K.Byrappa, T.Rungnapa, Vijay Kumar, .Ranganathaiah
38 National Seminar on Crystallography-200, 11-13, February 2009
14. FTIR and Electrical Properties of Polyurethane – Zeolitic Composites
B.V.Suresh Kumar, H.R. Ravi, K. Byrappa, C. Ranganathaiah, Siddaramaiah, M.B.Shayan, K.S. Manjula
38 National Seminar on Crystallography-200, 11-13, February 2009
15. Synthesis and characterization of Rare Earth Doped Orthorhombic Yttrium Aluminum Perovskites (YAP)
B. Basavalingu, H.N. Girish, B.V. Suresh Kumar, M.A. Shankara and k. Byrappa
38th National Seminar on Crystallography-200, 11-13, February 2009
16. Synthesis of Ru (III) Doped AgO Nanocomposites by Electrolytic Method and Degradation Study of Indigocaramine Dye
S. Ananda. ChaitanyaLakshmi. G, Meenakshi. P. G., K. Byrappa
38th National Seminar on Crystallography-200, 11-13, February 2009
17. Application of Hydrothermally synthesized Sn:ZnO in the Photodegradation of Pharmaceutical Effluent
C.P. Sajan, S. Mantula, S. Ananda, and K. Byrappa
38th National Seminar on Crystallography-200, 11-13, February 2009
18. Studies on Electrical Properties of Rare Earth Doped Aluminophosphate Zeolites
H.R. Ravi, B.V.Suresh Kumar, C. Ranganathaiah, B.Basavalingu , D. RavannaSiddaiah and K. Byrappa
38th National Seminar on Crystallography-200, 11-13, February 2009
19. Synthesis of Zn-Pyridoxine and Ru- Pyredoxine metal –Vitamin Crystals and Study of Biological Activity
Chaitanya Lakshmi, S.Ananda, N.M.Made Gowda, K.Byrappa
38th National Seminar on Crystallography-200, 11-13, February 2009
20. Long-Term Leachate Studies and Micro-Structural Analysis of Stabilized Electroplating Sludge in Cement Matrix
H. S. Dayananda, K. S. Lokesh, and K. Byrappa
38th National Seminar on Crystallography-200, 11-13, February 2009
21. Hydrothermal Green Processing of Advanced Powder Materials
K. Byrappa
International Conference on Recent Trends in Nanostructured Materials and Their Applications, 19-20, December, 2008, **Hyderabad, India**
22. Hydrothermal Processing of Advanced Nanomaterials
K. Byrappa
Internalational Confernece Advances on nanotechnology, 06 August, 2008, Raipur, India
23. Hydrothermal synthesis of sp^3 bonded carbon from β -SiC-organic compound system
B. Basavalingu, K. Byrappa, P. Madhusudan, M. Yoshimura
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, Bangalore, India
24. Titania coating on calcium aluminum silicate Beads under hydrothermal conditions for the degradation of toxic organics
T. Rungnapa, S. Pakamard, H.P. Shivaraju, C.P. Sajan, C. Ranganathaiah, S. Ananda and K. Byrappa

25. Investigations on Silk Fiber Reinforced Chain Extended Polyurethane Composites
K.S.Manjula, Siddaramaiah, K.Byrappa, T.Jeevananda and Joong- Hee Lee
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India.**
26. Preparation Of Metal Oxide:Polymer Composites, Characte-Rization And Applications
K.S. Manjula, M.B. Shayan, C.P. Sajan, H.P. Shivaraju, Siddaramaiah and K. Byrappa
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India**
27. Hydrothermal coating of Ag₂S nanoparticles on CNT templates
A.S. Dayananda, B.Basavalingu, K. Byrappa, K. Lal, K. Soga and M. Yoshimura
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India**
28. Hydrothermal Coating Of Zno On Calcium Alumino-Silicate Beads And Their Application In The Photocatalytic Degradation Of Amaranth Dye
H.P. Shivaraju, C.P. Sajan, M.B. Shayan, T. Rungnapa, S. Pakamard, S. Ananda and K. Byrappa
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India.**
29. Photocatalytic Degradation Of Textile Effluent Using Hydrothermally Synthesized Mo:TiO₂
C.P. Sajan, H.S. Shivaraju, K.M. Lokanatha Rai, S. Ananda, M.B. Shayan, T. Tonthai, G.V. Narasimha Rao and K. Byrappa
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India.**
30. Novel Methods Of Synthesis Of R³⁺:YVO₄ (Where R=Nd,Er) Crystals
C.K. Chandrashekar, B. Basavalingu, K.M. Lokanatha Rai, S. Ananda, T. Tonthai, K. Soga and K. Byrappa
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India.**
31. Materials Processing Under Geomimitic Conditions
K. Byrappa and B. Basavalingu
International Conference IUMRS-ICAM 2007, 8-13 October, 2007, **Bangalore, India.**
32. Crystalization of carbon nanoforms and nanocrystals from supercritical aqueous solutions
B. Basavalingu, K. Byrappa, P. Madhusudan, A.S. Dayananda, Krishan Lal, Y. Yoshimura
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, **New Delhi**
33. Hydrothermal preparation of TiO₂, ZnO crystallite and their applications in photocatalytic degradation of DDT and Rhodamine B dye
K. Byrappa, A.K. Subramani, C.P. Sajan, K.M. Lokanatha Rai, S. Ananda
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, **New Delhi**
34. Hydrothermal synthesis and characterization of orthorhombic yttrium aluminium perovskites
B. Basavalingu, H. N. Girish, K. Byrappa, Kohei Soga
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, **New Delhi**
35. Crystal growth and morphology control of Nd:YVO₄ under mild hydrothermal conditions
Byrappa. K, C.K. Chandrashekar, Ramningaiah, K.M. Lokanatha Rai
35th National Seminar on Crystallography, 22-24 Feb. 2006, NPL, **New Delhi**
36. Recent Trends in Advanced Materials Processing under Hydrothermal Conditions
K. Byrappa
National Workshop on Recent Advances in Structural Characterization of Materials, March 30, 2005, NPL, **New Delhi.**
37. *In-situ* Fabrication of the Crystal Morphology of the Nd:YVO₄ and Nd:GdVO₄ under Hydrothermal Conditions
Byrappa K., Chandrashekar C. K., Ramaningaiah, Lokanatha Rai K. M.
38. 16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, **Pune, India**
39. Surface Modification of TiO₂ under Hydrothermal Conditions and its use in the Degradation of Textile Dyes
Byrappa K., Sunitha M. H., Subramani A. K., Ananda S., Lokanatha Rai K. M., Basavalingu B., Yoshimura M.

- 16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, **Pune, India**
40. Synthesis of Multiwalled Carbon Nanotubes under Hydrothermal Conditions
Srikantaswamy S. Byrappa K., Basavalingu B., Madhusudan P, Dayananda A. S., Yoshimura M.
 41. 16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, **Pune, India**
 42. Hydrothermal Crystallization and Characterization of R +3 : VPI-5 , where R=Ce, Pr and Nd
Byrappa K, Suresh Kumar B.V., Somashekar R., Ranganathaiah C., Dinesh R., Lokanatha Rai K. M., Ananda S.
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, **Pune, India**
 43. Synthesis of Carbon Nanoparticles under Hydrothermal Conditions
Byrappa. K., Madhusudan. P., Dayananda A. S, Yoshimura M.
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, **Pune, India**
 44. Recent Trends in Hydrothermal Technology (Invited Talk)
K. Byrappa
16th Annual General Body Meeting Materials Research Society of India, Feb. 10-12, 2005, **Pune, India**
 45. Photocatalysis: Fundamentals and Applications in the Organic Waste Destruction
K. Byrappa, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, R. Dinesh, M.H. Sunitha, B. Basavalingu and M. Yoshimura
Interantional Conference on Water and Health (WAH 05), January 22-23, 2005
Mysore, India
 46. Industrial Effluent Action on Mineral Alteration in and Around Nanjangud, Karnataka, India
S. Kousalya, K. Byrappa and C. Ranganathaiah
Interantional Conference on Water and Health (WAH 05), January 22-23, 2005
Mysore, India
 47. Photocatalytic Degradation and Kinetics of Brilliant Yellow Dye Using Hydrothermally Prepared ZnO Coated TiO₂
K. Byrappa, M.H. Sunitha, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, B. Basavalingu and M. Yoshimura
Interantional Conference on Water and Health (WAH 05), January 22-23, 2005
Mysore, India
 48. Recent Advances In Materials Processing Under Hydrothermal Conditions (Invited Paper)
K. Byrappa
Seminar on Soft Processing of Ceramic Materials, Ceramic Society of India Bangalore Chapter, BHEL, **Bangalore**, January 15, 2005
 49. Positron Annihilation Lifetime Spectroscopy for the Characterization of Porous Materials
C. Ranganathaiah, G.N. Kumaraswamy, H.B. Ravikumar, A.K. Subramani, M.S. Vijayakumar, M.K. Devaraju and K. Byrappa
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
 50. Hydrothermal Preparation of Neodymium Coated Titanium Oxide and Its Application in the Photocatalytic Degradation of Procion Red Dye
K. Byrappa, M.H. Sunitha, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, B. Basavalingu and M. Yoshimura
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.

51. Synthesis and Characterisation of Some Orthorhombic Carbonates under Hydrothermal Conditions
P. Madhusudan, B. Basavalingu, K. Byrappa, A.S. Dayananda and H.N. Girish
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
52. Hydrothermal Treatment of Effluent Affected Polluted Soil of Nanjangud, Karnataka, India
K. Byrappa, Tienchai Tonthai, S. Kousalya and C. Ranganathaiah
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
53. Kinetic Study of D-Glucose Oxidation by Sodium-N-Cholorobenzene Sulphonamide (Chloramice-B) with Zeolite (AlPO₄-5) as Catalyst
S. Ananda, K.B. Sudharani, K. Byrappa B.V. Suresh Kumar
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
Synthesis and Characterization of Calcium Alumino Silicate Hydrate
K. Byrappa, M.K. Devaraju, P. Madhusudan, A.S. Dayananda, B. Basavalingu, S. Ananda, K.M. Lokanatha Rai and H.N. Girish
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
54. Solubility Studies of Hydrothermally Synthesised Calcite Crystals
K. Byrappa, P. Madhusudan, B. Basavalingu and M.S. Vijayakumar
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
55. Photocatalysis: Kinetics and Mechanism
S. Ananda, A.K. Subramani, K. Byrappa and K.M. Lokanatha Rai
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
56. Synthesis of Thioesters and Thioamides under Solvothermal Condition using Thiourea as Thionating Agent.
E. Aparna, K.M. Lokanatha Rai, K. Byrappa, M. Sureshbabu, R.L. Jagadish and S.L. Gaonkar
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
57. Impregnation of ZnO onto Activated Carbon Surface by Hydrothermal Technique and its Application.
K. Byrappa, A.K. Subramani, S. Ananda, K.M. Lokanatha Rai, R. Dinesh, M.H. Sunitha, B. Basavalingu and K. Soga.
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
58. Crystal Growth and Morphology of Nd: YVO₄ under Hydrothermal Conditions.
K. Byrappa, Ramaningaiah and Kohei Soga
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
59. Synthesis of Crystallized ABO₄ (A=Ba, Sr, Ca; B=Mo, W) Film by Chemical Reaction Method at Room Temperature.
Dinesh Rangappa, Takeshi Fujiwara, Tomoaki Watanabe, K. Byrappa and Masahiro Yoshimura.
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**, August 24-27, 2004.
60. Synthesis and Characterization of Some Selected Microporous Aluminophosphate Zeolites
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*
6th International Conference on Solvothermal Reactions, University of Mysore, **Mysore**,
August 24-27, 2004.
61. Hydrothermal Synthesis, Electrical Conductivity and Catalysis Reaction of
Aluminophosphate Zeolites
K. Byrappa, M.S. Vijaya Kumar, B.V. Suresh Kumar, S. Ananda and K.M.L. Rai
International School on Crystal Growth of Technologically Important Electronic
Materials, University of Mysore, **Mysore**, January 20-27, 2003.
 62. Crystal Growth of Nd: YVO₄ Using Hydrothermal Technique at Different Temperature
K. Byrappa, Ramaningaiah and B. Basavalingu
International School on Crystal Growth of Technologically Important Electronic
Materials, University of Mysore, **Mysore**, January 20-27, 2003
 63. Crystal Growth Mechanism for Rare Earth Vanadates under Mild Hydrothermal Conditions
K. Byrappa, B. Nirmala, K.M. Lokanatha Rai and S. Ananda
International School on Crystal Growth of Technologically Important Electronic
Materials, University of Mysore, **Mysore**, January 20-27, 2003
 64. Hydrothermal Impregnation of Designer Particulates on Activated Carbon
*K. Byrappa, A.K. Subramani, K.M.L. Rai, B. Basavalingu, S. Ananda and
S. Srikantaswamy*
International School on Crystal Growth of Technologically Important Electronic
Materials, University of Mysore, **Mysore**, January 20-27, 2003
 65. Stability and Behaviour of Carbon Nanotube Under Hydrothermal Conditions
*S. Srikanta Swamy, Masahiro Yoshimura, K. Byrappa, B. Basavalingu and
A.K.Subramani*
International School on Crystal Growth of Technologically Important Electronic
Materials, University of Mysore, **Mysore**, January 20-27, 2003
 66. Hydrothermal Growth of Crystal
K. Byrappa
International School on Crystal Growth of Technologically Important Electronic
Materials, University of Mysore, **Mysore**, India, January 20-27, 2003
 67. Impregnated Activated Photocatalyst for Aromatic Hydrocarbons
R. Dinesh, K. Byrappa, K. M. L. Rai, and M. Yoshimura
National Seminar on Environmental Hazards-Priorities and Protection in the 21st Century,
Department of Environmental Sciences, University of Mysore, India. 21 March 2001
 68. Growth and Characterization of Rare Earth Phosphates
K. Byrappa, J.R. Paramesha and A.B. Kulkarni
National Seminar on Electronic Materials and Applications, **Gulbarga**, January 18-20,
1999
 69. Growth of Optoelectronic Crystals
K. Byrappa, B. Nirmala and A.B. Kulkarni
National Seminar on Electronic Materials and Applications, **Gulbarga**, January 18-20,
1999
 70. Growth of Electronic Grade Crystals
K.Byrappa
National Seminar on Electronic Materials and Applications, **Gulbarga**, January 18-20,
1999
 71. Hydrothermal Synthesis of VPI-5
K.Byrappa and B.V.Suresh Kumar
National Seminar on Crystal Growth, **Karaikudi**, January 1998
 72. Crystal Growth of Rare Earth Phosphates
K.Byrappa and J.R.Paramesha

- National Seminar on Crystal Growth, **Karaikudi**, January 1998
73. Crystal Growth and Morphology of Laser Crystals $\text{NdP}_5\text{O}_{14}$, $\text{KNdP}_4\text{O}_{12}$ and Nd: YVO_4
K.Byrappa, Parmesha, J.R. and Nirmala. B.
28th National Seminar on Crystallography, **Kottayam**, Sept. 24-26, 1997.
 74. Hydrothermal Synthesis of Aluminophosphates Zeolites.
K.Byrappa and B.V.Suresh Kumar
28th National Seminar on Crystallography, **Kottayam**, Sept. 24-26, 1997.
 75. Impedance Spectroscopic Analysis of Some Superionic Pyrophosphates
A.B.Kulkarni, V.Rajeev, K.Byrappa and B.Sanjeeva Ravi Raj.
DAE-BRNS Symposium on Electroceramics, **Rajkot**, March 13-15, 1996
 76. Frequency Dependent Conductivity in Mixed Copper and Silver Oxide – a New Superionic Conductor
A.B.Kulkarni, V.Rajeev, K.Byrappa and B.Sanjeeva Ravi Raj.
DAE-BRNS Symposium on Electroceramics, **Rajkot**, March 13-15, 1996
 77. Electro-Optic Phenomena in the New Superionic Pyrophosphate
A.B.Kulkarni, V.Rajeev, K.Byrappa and B.Sanjeeva Ravi Raj
DAE-BRNS Symposium on Electroceramics, **Rajkot**, March 13-15, 1996.
 78. Mixed Condensed Phosphates – New Solid Electrolytes
K.Byrappa, B.Sanjeeva Ravi Raj, V.Rajeev, V.J.Hanumesh, A.R.Kulkarni & A.B.Kulkarni
II National Conference on Solid State Ionics, **Mardras**, Feb. 15-17, 1996
 79. Ionic Conductivity Studies in Lithium Borates from $\text{Li}_2\text{O-B}_2\text{O}_3\text{-H}_2\text{O}$ System
K.Byrappa, V.P.Jayantharaja, V.Rajeev, V.J.Hanumesh, A.R.Kulkarni & A.B.Kulkarni
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.
 80. Ionic Conductivity and Crystallographic data for $\text{HnaCoP}_2\text{O}_7$ and $\text{HnaMnP}_2\text{O}_7$ Crystals
K.Byrappa, B.V.Umesh Dutta and K.Vasundhara
V National Seminar Crystal Growth, Nov. 18-20, 1995
 81. Hydrothermal Synthesis, Crystal Structure and Properties of $\text{LiH}_2\text{B}_5\text{O}_9$.
K.Byrappa and K.V.K.Shekar
V National Seminar Crystal Growth, Nov. 18-20, 1995
 82. Crystal Growth and Characterization of $\text{NaRE}(\text{WO}_4)_2$.
Amita Jain and K.Byrappa
V National Seminar Crystal Growth, Nov. 18-20, 1995
 83. Recent Progress in the Growth and Characterization of Na^+ Superionic Phosphates
K.Byrappa
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**.
 84. Synthesis and Characterization of Aluminium Phosphate Zeolites
K.Byrappa
Colloquium on ZEOLITES, **Kolhapur**, October 10-11, 1995.
 85. Hydrothermal Growth of Electronic Crystals
K.Byrappa
International School on Crystal Growth of Electronic Materials, Feb. 6-15, 1995, Madras.
National Workshop on Project Vasundhara, 27th June, 1994, **Bangalore**.
 86. Growth of Economic Minerals
K.Byrappa
National Symposium on Materials for Development, Warangal, **Andhra Pradesh**, March

- 13-14, 1993.
87. Recent Progress in the Na⁺ Superionic Phosphates
K.Byrappa
National Workshop on Recent Advances in Solid State Sciences, Platinum Jubilee
Lecture Series of the Osmania University, **Hydrerabad**, Feb. 15-16, 1993.
 88. Hydrothermal Synthesis and Characterization of Hexaferrites
K.Byrappa and S.Srikantaswamy
XXIII National Seminar on Crystallography, **Jaipur, Rajasthan**, 23-25, March 1992, India
 89. Structure of LiH₂B₅O₉.
A.Cardenas, J.Solans, K.Byrappa and K.V.K.Shekar
XXIII National Seminar on Crystallography, **Jaipur, Rajasthan**, 23-25, March 1992,
India.
 90. Morphology of Some New Superionic Pyrophosphates
K.Byrappa, B.V.Umesh Dutt and G.S.Gopalakrishna
XXIII National Seminar on Crystallography, **Jaipur, Rajasthan**, 23-25, March 1992,
India.
 91. Crystal Growth and Morphology of Rare Earth Phosphates
K.Byrappa and Amita Jain
XXIII National Seminar on Crystallography, **Jaipur, Rajasthan**, 23-25, March 1992, India
 92. Hydrothermal Synthesis, Crystal Structure and Properties of Li₄H₂B₂O₆.
K.Byrappa and K.V.K.Shakar
XXIII National Seminar on Crystallography, **Jaipur, Rajasthan**, 23-25, March 1992,
India.
 93. Crystal Chemistry and Crystal Growth of Technology Materials-Silicates and Phosphates.
K.Byrappa
XXIII National Seminar on Crystallography, **Jaipur, Rajasthan**, 23-25, March 1992.
 94. Some Piezoelectric Minerals – Berlinite and Diamignite
K.Byrappa
Third INDO-Soviet Symposium on Experiment Mineralogy and Petrology
 95. Synthesis of AlPO₄ – Ceramic Binders.
K.Byrappa and S.Srikantaswamy
Conference on Oxide Ceramics and Technology, **Kolhapur**, Feb. 21-23, 1991.
 96. Growth and Characterization of Na₂MZr(P₂O₇)₂.
K.Byrappa, B.V.Umesh Dutta, A.B.Kulkarni and S.Gali
XXII National Seminar on Crystal Growth. **Calcutta**, Dec. 26-28, 1990
 97. Synthesis and Characterization of Na₂H₃Al(P₂O₇)₂
K.Byrappa, G.S.Gopalakrishna, A.B.Kulkarni and S.Gali.
XXII National Seminar on Crystal Growth. **Calcutta**, Dec. 26-28, 1990
 98. Hydrothermal Synthesis and Characterization of Piezoelectric – Li₂B₄O₇ Crystals.
K.Byrappa and K.V.K.Shekar
XXII National Seminar on Crystal Growth. **Calcutta**, Dec. 26-28, 1990
 99. The Effect of Mixed Solvents on The Solubility and Growth of Piezoelectric Berlinite.
K.Byrappa and S.Srikantaswamy
XXII National Seminar on Crystal Growth. **Calcutta**, Dec. 26-28, 1990.
 100. Hydrothermal Synthesis of Hexaferrite Compounds
K.Byrappa and G.S.Srikantaswamy
V National Seminar on Crystal Growth. Nov. 18-20, 1990, **Madras**.
 101. Growth and Characterization of a New Group of Fast Ionic Conductors
K.Byrappa
XXI National Seminar on Crystallography, BARC, **Bombay**, 27-29, Dec. 1989.
 102. Thermodynamic Characteristic Berlinite Crystals.

- K.Byrappa and S.Srikanataswamy*
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989
103. Hydrothermal Synthesis and Characterization of New Sodium Titanates
K.Byrappa, R.R.Clements, S.Gali and A.B.Kulkarni
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989
104. Synthesis and Characterization of High Temperature modification of a New Pyrophosphate
Superionic Conductor. $\text{Na}_2\text{NiZr}(\text{P}_2\text{O}_7)_2$
K.Byrappa, S.Gali, G.S.Gopalakrishna and A.B.Kulkarni
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989
105. Morphological aspects of Hydrothermal Grown Superionic Phosphates
K.Byrappa and G.S.Gopalakrishna
IV National Seminar on Crystal Growth. Aug. 14 – 16, 1989.
106. Explanation of Inductive Loops in the Impedance Spectra of some Superionics
S.K.Patil, A.H.Farooqui, A.B.Kulkarni and K.Byrappa
National Seminar on Ferroelectrics, Dec. 1988, **Tirupati**.
107. Equivalent Circuit Parameter Analysis for a New Superionic Conductor
S.K.Patil, A.H.Farooqui, A.B.Kulkarni, K.Byrappa and G.S.Gopalakrishna
National Seminar on Ferroelectrics, Dec. 1988, **Tirupati**.
108. Artificial Growth of Industrial Minerals
K.Byrappa
Seminar on Industrial Mineral in National Economy, Dec. 14 – 19, 1988, **Madras**.
109. Growth of Industrial Minerals
K.Byrappa
National Seminar on Industrial Minerals in the National Economy, Anna University,
Madras, Dec. 14-16, 1988.
110. Growth and Characterization of Piezoelectric Berlinite
K.Byrappa
National Seminar on 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.
111. Frequency dependent Conductivity of a New Superionic Conductor – $(\text{NH}_4)\text{Zr}_2\text{V}_3\text{O}_{12}$
K.Byrappa, A.B.Kulkarni, N.B.Desai, S.K.Patil, G.S.Gopalakrishna & S.Srikantaswamy
XXX Symposium on Solid State Physics. Dec. 27-31, 1987, BARC, **Bombay**.
112. Inclusion of Inductance in Equivalent Circuit Representation of Electrochemical System
A.B.Kulkarni, S.K.Patil, K.Byrappa and G.S.Gopalakrishna
XXX Solid State Physics Symposium, Dec. 27-31, 1987, **Bombay**.
113. Growth and Characterization of New Superionic Conductors (REVIEW)
K.Byrappa
XIX National Seminar on Crystallography, Dec. 18-20, 1987, Chenganacherry, **Kerala**
114. Thermal Expansion of Berlinite Crystals
K.Byrappa and S.Srikanataswamy
XIX National Seminar on Crystallography, Dec. 18-20, 1987, Chenganacherry, **Kerala**.
115. Synthesis of Y:AlPO_4
K.Byrappa, S.Srikantaswamy and J.Shashidhara Prasad
3rd National Seminar on Crystal Growth, Feb. 16-19, 1987.
116. Growth and Characterization of $\text{NH}_4\text{Zr}_2\text{V}_3\text{O}_{12}$
K.Byrappa, A.B.Kulkarni, N.B.Desai and S.Srikantaswamy
3rd National Seminar on Crystal Growth, Feb. 16-19, 1987, **Madras**
117. Growth and Characterization of $\text{NaCu}_2\text{ZrP}_3\text{O}_{12}$
K.Byrappa, G.S.Gopalakrishna, A.B.Kulkarni and J.Shashidhara Prasad
3rd National Seminar on Crystal Growth, Feb. 16-19, 1987, **Madras**.

118. Growth of Rare Earth Phosphates
K.Byrappa
III National Seminar on Crystal Growth, Feb. 16-19, 1987, **Madras**
119. Thermal Expansion Study of $\text{Na}_2(\text{La,Al})\text{ZrP}_3\text{O}_{12}$ Crystals
K.Byrappa, G.S.Gopalakrishna, D.S.Mahadevappa and J.Shashidhara Prasad
Solid State Physics Symposium, **Pantnagar**, Dec. 1986.
120. Synthesis and Characterization of some Vanadates
K.Byrappa, N.B.Desai, A.B.Kulkarni and S.Srikantaswamy
Solid State Physics Symposium, **Pantnagar**, Dec. 1986.
121. Hydrothermal Growth of Crystals.
K.Byrappa.
National Summer School on Crystal Growth. May, 1986, **Madras**.
122. Creation of Superionics by Ion implantation of Natural Minerals.
K.Byrappa, A.B.Kulkarni, N.B.Desai and G.S.Gopalakrishnan
Seminar on Research with Accelerators, Jan. 31st to Feb. 2nd, 1986, **Bangalore**
123. Synthesis and Characterization of some New Super Ionic Conductors $\text{Na}_2(\text{La, Me})\text{ZrP}_3\text{O}_{12}$ & $\text{NaMe}_2\text{ZrP}_3\text{O}_{12}$ Crystals.
Symposium on Crystal Growth, Jan. 29-31, 1986, **Calcutta, India**.
124. Influence of Admixtures on the Crystallization in Polymorphic Transitions of Piezoelectric Aluminium Orthophosphate.
Symposium on Crystal Growth, Jan. 29-31, 1986, **Calcutta, India**.
125. Synthesis of a New Proton Conductor – $\text{NH}_4\text{Zr}_2\text{V}_3\text{O}_{12}$.
K.Byrappa, N.B.Desai, A.B.Kulkarni and S.Srikantaswamy
Workshop on Material Science, IIT, **Kanpur, India**, Feb. 28th to March 2nd, 1985.
126. Thermal Expansion Study of $\text{NaNi}_2\text{ZrP}_3\text{O}_{12}$.
K.Byrappa, G.S.Gopalakrishna, D.S.Mahadevappa and J.Shashidhara Prasad.
Workshop on Material Science, IIT, **Kanpur, India**, Feb. 28th to March 2nd, 1985.
127. Hydrothermal Synthesis and Characterization of $\text{Na}_2(\text{La, Me})\text{ZrP}_3\text{O}_{12}$ Crystals
K.Byrappa, A.B.Kulkarni and G.S.Gopalakrishna
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**.
128. Hydrothermal Growth of NASICON Group of Fast Ionic Conductors
K.Byrappa, G.S.Gopalakrishna and A.B.Kulkarni
Solid State Symposium, BARC, **Bombay**, Dec. 22-26, 1984.
129. Growth of Alkaline Rare Earth Phosphates
K.Byrappa.
International School on 'Physics of Materials, IIT, **Madras, India**, September 4-22, 1984

iv) Paper as a part of book:

Sl. No.	Title of the paper	Title of the book	Publisher	Year of publication	Page No.
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1. *K. Byrappa and S. Srikanta Swamy (1991)*
Recent Progress in the Growth and Characterization of Aluminium Orthophosphate
In the Book "Recent Progress in the Hydrothermal Growth of Crystals",
Ed: K. Byrappa (Pergamon Press, Oxford, UK) pp 199-254.
2. *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.**
3. *K. Byrappa (1994)*
Hydrothermal growth of crystals
In: HANDBOOK OF CRYSTAL GROWTH, VOL.2, Ed. DTJ Hurle (North-Holland Publishers,) Vol.2, Chapter 9, pp. 441-539, U.K.
 4. *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
 5. *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.
 6. *K. Byrappa (2001)*
Hydrothermal Growth
In: Encyclopedia of Materials Science and Technology, Ed: O. Mahajan, USA, Elsevier Science Publisher, UK pp. 3982-3989.
 7. *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.
 8. *K. Byrappa (2004)*
Growth of Quartz crystals
In: “Bulk crystal Growth of Electronic, Optical and Optoelectronic materials”, Ed: Peter Capper, Publishers: John Wiley & Sons, Ltd. UK. Chapter 13, pp. 387-404
 9. *K. Byrappa (2005)*
Hydrothermal processing of advanced materials
In: Kirk-Othmer Encyclopedia of Chemical Technology, John Wiley, U.K., pp.
 10. *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. pp.217-250.
 11. *K. Byrappa (2009)*
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.

v) Monographs/Reports (if any) -

<p>K. Byrappa M. Yoshimura <i>(Second Edition is in print)</i></p>	<p>HANDBOOK OF HYDROTHERMAL TECHNOLOGY A Technology for Crystal Growth and Materials Processing</p>	<p><i>Noyes publications, New Jersey, USA, 2001</i></p>	<p>2001</p>	<p>900 pages</p>
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12. Conference/Seminar organized:

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

6th International Conference on Solvothermal Reactions (ICSTR-6), Mysore, India, August 24-28, 2004

**Indo-Japan Workshop on Solvothermal Reactions, August 23, 2004, Mysore, India
International School on Crystal Growth of Technologically Important Electronic Materials (ISCGTIEM), January 20-28, 2003, Mysore, India. Sponsored by International Union of Crystallography, UK.**

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

**Refresher Course in Crystallography and Mineralogy,” for Teachers from Post-Graduate and Under-Graduate Institutions in India, March 7-31, 1994, Mysore, India.
DST – Workshop, January 27 - 30, 2005, Mysore.**

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

Stress Management Workshop for Teaching Staff, July 2005.

Soft Skill Development Workshop for Research Students of Mysore Univ. June 2005.

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

Conferences proposed

Asian Crystal Growth Conference, Jan. 2010.

Super Green 2011 (International Conference) during Oct. 2011.

ISHA 2014, 4th International Solvothermal and Hydrothermal Association Conference, August 2014.

13. Conference / Seminar Chaired:

- 1. Chair, Symposium on Novel Solution Processing of Materials for Nanotechnology / Biomaterials
International Conference on Materials for Advanced Technology (ICMAT-2013), 29 June – 5 July 2013, Singapore**
- 2. Chair, Symposium on Nanotechnology for Bio/Medical Materials
IUMRS-ICA-2011, 12th International Conference in Asia, Sept. 19-22, 2011, Taipei, Taiwan.**
- 3. Secretary, 2nd International Conference of the International Solvothermal and Hydrothermal Association, July 26-28, 2011, Beijing, China.**
- 4. Chair, Symposium on the Growth of Scintillating, Ferroelectric, Piezoelectric and Multi-Functional Crystals, 16th International Conference on Crystal Growth, August 08- 12, 2011, Beijing, China.**
- 5. Chair, Symposium on Novel Routes of Solution Processing, June 28- July 03, 2009, Singapore.**

6. **Chair, Microsymposium on Hydrothermal Growth of Crystals, 21st Congress and General Assembly of International Union of Crystallography, August 21-31, 2008, Osaka, Japan.**
7. **Chair, Symposium on Materials Synthesis, Novel Approaches, In: IUMRS-2007, Bangalore, India.**
8. **Chair, Symposium on Protein Crystallization, In: Asian Crystallography Conference, Tsukuba, Japan, November 2006.**
9. **Scientific Program Committee Member, IUCr –XX and General Assembly, Florence, Italy. August 2005.**

14. Conference/Seminar participated:

Given the list of the Conferences and Seminars attended and the papers presented in column No. 11 (iii)

15. Chairman/Member of Authority/Committee etc:

1. **Elected FELLOW/ ACADEMICIAN, World Academy of Ceramists, USA from 2009.**
2. **Expert, Dept. of Science and Technology, Govt. of India, National Program on Nanomaterials for Ferro-Fluid Flow.**
3. **Consultant to the International Commission on Crystal Growth, a Body of the International Union of Crystallography, from 1999-2002.**
4. **General Secretary, International Solvothermal and Hydrothermal Association, from 2006**
5. Served as UGC Expert for SAP Programs, and Member of NAAC Committee.
6. **MEMBER, EDITORIAL BOARD** Journal of The Indian Academy of Sciences
7. **MEMBER, Scientific Program Committee, International Congress on Crystallography, Florence, Italy, August, 2005.**
8. Selected to *Elite Club of 2000 Outstanding Personalities of 20th Century*, in Science & Technology by International Biographic Centre, Cambridge, U.K.
9. **MEMBER**, British Association for Crystal Growth, UK.
10. **EXECUTIVE COMMITTEE MEMBER**, National Committee for Crystal Growth, India.
11. **MEMBER**, International Panel on the Experimental Techniques of the Growth of 4f Elements Compounds, Lisbon, Portugal, 1987.
12. **MEMBER**, NEW YORK ACADEMY OF SCIENCES, USA.
13. **MEMBER**, International Advisory Board on Crystal Growth.
14. **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.
15. UGC expert for Committee on Orientation Programmes and Refresher courses in India, 2006
16. **Executive Council Member, National Crystallography Council** of Indian National Science Academy, India. From 2007 –
17. **Executive Council Member, International Commission on Crystal Growth and**

Characterization of Materials, International Union of Crystallography, UK. From 2002

18. Executive Council Member, Asian Crystallography Association, From 2006 –

19. Member, Core Committee for Ph.D. Regulations of University of Mysore, Mysore.

20. Member, Core Committee for VISION 2025 UNIVERSITY OF MYSORE.

21. Member, Core Committee for Choice Based Credit System, University of Mysore

22. Nodal Officer, University Auditing Committee, University of Mysore

23. Fellow of the Mineralogical Society of India

24. Fellow of the Geological Society of India.

25. Fellow of the Geochemical Society of India.

Etc.,

15. Any other Information:

Frequently traveled in the whole of Europe and North America, Japan, South Korea, Russia, China, Singapore, Hong Kong, Malaysia, Thailand, and Australia in various capacities like Research Fellow, Post-Doctoral Fellow, Visiting Scientist, Visiting Professor, Indian National Science Academy Delegate. Also worked in several International Laboratories on both short term and long term basis.

(SIGNATURE)