

## Bio data

**Name** : Dr. Rajashekhar F. Bhajantri  
**Designation** : Professor & Chairman  
**Official Address** : Department of Physics,  
Karnatak University,  
Pavate Nagar, Dharwad-580003  
Karnataka, INDIA



**Phone Office** : 0836-2215316  
**Mobile** : 9448623319  
**E-mail address** : rfbhajantri@gmail.com  
rfbhajantri@kud.ac.in

**Qualification** : M.Sc., Ph.D.

**Area of Specialization** : Nuclear and Condensed Matter Physics

**Teaching Experience** : **26 Years**

- 1) Appointed as Lecturer: Aug. 1997  
Department of Physics, Mangalore University, Mangalore
- 2) Promoted as Associate Professor: Aug. 2011  
Department of Physics, Mangalore University, Mangalore
- 3) Appointed as Professor: Oct. 2013  
Department of Physics, Karnatak University, Dharwad

**Title of Ph. D. Thesis** : Free Volume Related Microstructural Study of Polymers

**Ph.D. Award Year** : 12-08-2008 from Mangalore University

**Research Supervisor** : **Dr. V. Ravindrachary**  
Professor,  
Department of Physics,  
Mangalore University, Mangalagangothri-574199

**Research Experience** : **24 Years**

**No. of Ph.D. Students: Awarded: 09, Submitted: 01, Working: 08**

**Research Interest:** Experimental studies on polymer-based nanocomposites, ion conducting polymers, polymer electrolytes for developing energy storage devices. Fluorescence emission, fluorescence quenching, fluorescence lifetime, quantum yield and quantum efficiency of dye doped polymer nanocomposites for optical applications. New strategies for energy storage systems using polymer ceramic composite electrolytes.

**Research Publications:** 110 (International Journals)  
25 (Conference Proceedings)  
07 (Invited Talks)  
68 (International Conference Presentations)  
58 (National Conference Presentations)  
02 (Book Chapters in International Books)

**Google Scholar Citation indices**

	All	Since 2018
Citations	1769	1260
h-index	22	21
i10-index	44	42

**Vidwan-ID: 208462**

**Web of Science Researcher ID:** G-8797-2018

**Scopus Author ID:** 8288132100

**SCOPUS:** <https://www.scopus.com/authid/detail.uri?authorId=8288132100>

**ORCID:** 0000-0002-0022-638X

**Google Scholar:** <https://scholar.google.com/citations?user=c1VfOoAAAAJ&hl=en>

**Sponsored Research Projects Completed/On-going:**

- 1) **UGC-MRP Project (F. 36-165/2008 (SR) dated 26th March 2009):** Electron and UV irradiation induced microstructural studies of polymer-based nanocomposites, with amount: Rs. 2,40,000/-, Period: 2009-2012
- 2) **DAE-BRNS Project (2010/37C/7/BRNS/832, Date:28-06-2010):** Mechanical and Positron Annihilation Studies on Electron Irradiated Polymer Nanocomposites, with amount: Rs. 22,41,532/-, Period: 2010-2014
- 3) **DST-SERB Project Under Fast Track Young Scientist (SR/FTP/PS-011/2010, Date: 14-05-2012):** Positron Annihilation and Dielectric Studies on Ion Conducting Polymers. Rs. 23,47,000/-, Period: 2012-2015.
- 4) **DST-SERB Project Under “Empowerment and Equity Opportunities for Excellence in Science (SB/EMEQ-089/2013, dated: 14-05-2015):** Preparation and Characterisation of Fluorescent dye doped Polymer Nanocomposites, with amount: Rs. 49,32,000/-, Period: 2015-2018. DST-SERB, New Delhi
- 5) **DST-SERB Project Under “Empowerment and Equity Opportunities for Excellence in Science (EEQ/2022/001028, Dated: 06 March, 2023):** New Strategies for Energy Storage Systems using Polymer Ceramic Composite Electrolytes. Rs. 40,50,000/-, Period: 2022-2025. DST-SERB, New Delhi.

**Research Collaboration:** BARC Mumbai, SINP Kolkata, MIT Manipal, Mangalore University, University of Mysore, KLE University Hubballi, JSS University Mysore, MIT World Peace University, Pune, Davangere University.

**Chairmanships at National or International Conference/Seminar etc.**

Third International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP-2012) during Oct 26, 27 & 28, 2012 Mahatma Gandhi University, Kottayam, Kerala.

**Editor of the Conference Proceedings**

Proceedings of the International Conference on Physics of Materials and Nanotechnology (ICPN 2019) held during 19–21 September 2019

Location: Mangalore University, Mangalore, Karnataka, India

ISBN: 978-0-7354-2003-8

Editors: Devendrappa Hundekal, Ganesh Sanjeev, Rajashekhar Bhajantri, Rameshwar Adhikari, Rabah Boukherroub and Shanmugam Sangaraju

Volume number: 2244, Published: Jun 26, 2020

<https://aip.scitation.org/doi/abs/10.1063/12.0000547>

**Book Chapters Published:**

1. Spectral Tuning of P3HT/PTCDA Bulk Hetero P-N Junction Blend for Plastic Solar Cell, Ishwar Naik, Rajashekhar Bhajantri, Jagadish Naik, “Applied Physical Chemistry with Multidisciplinary Approaches” Chapter-IV Pages: 81-106, edited by A. K. Haghi, Devrim Balköse, Sabu Thomas, *CRC Press, Taylor & Francis Group and Apple Academic Press, New York* (May 2018) e-Book ISBN 9781351688888, ISBN 9781771886062 - CAT# N11935 <https://www.taylorfrancis.com/chapters/edit/10.1201/9781315169415-4/spectral-tuning-p3ht-ptcda-bulk-hetero-junction-blend-plastic-solar-cell-ishwar-naik-rajashkhar-bhajantri-jagadish-naik>
2. Optically Tuned MDMO-PPV/PCBM Blend for Plastic Solar Cells Ishwar Naik, Rajashekhar Bhajantri, and Jagadish Naik “Nanotechnology-Driven Engineered Materials: New Insights” Pages: 255-278 1st Edition, Editors: Sabu Thomas, Yves Grohens, Nandakumar Kalarikkal, Oluwatobi Samuel Oluwafemi, K.M. Praveen, *Apple Academic Press New Jersey, USA and CRC Press, a member of Taylor & Francis Group* (2019), ISBN-13:978-1-77188-634-5(Hard), -13:978-1-315-10260-3 e-Book ISBN9781351592581 <https://www.taylorfrancis.com/chapters/edit/10.1201/b22325-20/optically-tuned-mdmo-ppv-pcbm-blend-plastic-solar-cells-ishwar-naik-rajashkhar-bhajantri-jagadish-naik?context=ubx&refId=28c6aa71-c284-436b-9a4c-7bc0cbe78a53>

## Professional/Academic Recognition

- 1) **Award for standardized X-ray Powder Pattern by International Center for Diffraction Data File No. (ICDD) No. 56-1679, 2006** on 1-(4-methylphenyl)-3-(4-methoxyphenyl) 2-propen-1-one
- 2) **Award for Best Poster Presentation** in 59<sup>th</sup> Solid State Physics Symposium, Dec. 16-20, 2014 at VIT University, Vellore (T.N) for the paper “Dielectric, Thermal and Mechanical Properties of ADP doped PVA Composites” Jagadish Naik, **R. F. Bhajantri**, V. Ravindrachary, Sunil G. Rathod, T. Sheela, Ishwar Naik.
- 3) **Award for Best Research Publication in Science-2017** by Karnatak University, Dharwad for paper “Synthesis and dielectric investigations of bismuth sulfide particles filled PVA: Polypyrrole core-shell nanocomposites” Vidyashree Hebbar, R. F. Bhajantri, **Materials Science & Engineering B**, 224, 171–180, (2017)
- 4) **Award for Best Research Publication in Science-2019** by Karnatak University, Dharwad for the paper “Role of free volumes in conducting properties of GO and rGO filled PVA-PEDOT:PSS composite free standing films: A positron annihilation lifetime study” Vidyashree Hebbar, R.F. Bhajantri, H.B. Ravikumar, S. Ningaraju. **Journal of Physics and Chemistry of Solids 126 (2019) 242–256**
- 5) **Award for Best Research Publication in Science-2020** by Karnatak University, Dharwad for the paper “Dominant role of pyronin B on structural, optical and fluorescence properties of chemically synthesized ZnO loaded PVA polymer nanocomposites”. Madhavi Nandimath and Rajashekhar F. Bhajantri. **Optical Materials 105 (2020) 109892. Citation: 01, Impact Factor: 2.779**
- 6) **Award for Best Research Publication in Science-2021** by Karnatak University, Dharwad for the paper “Impact of brilliant green (BG) dye on structural, linear and third order nonlinear optical properties of polyvinyl alcohol (PVA) polymer composites for optoelectronic applications”, Mallikarjun H. Anandalli, R. F. Bhajantri, S. R. Maidur, P.S. Patil, **Journal of Materials Research 36, 2856–2871 (2021), Impact Factor: 2.502**
- 7) **Award for Outstanding Contribution in Reviewing** from *Journal of Non-Crystalline Solids, Journal of Physics and Chemistry of Solids, Solid State Ionics, Solid State Ionics, Optical Materials, Polymer, Materials Letter, Journal of Industrial and Engg Chemistry etc., During 2018-19, 2019-20, 2020-21, 2021-22.*

## Membership of Academic/professional Organization/Associations/Committees:

- Life Member, Society for Positron Annihilation and Nuclear Probes (SPAN), BARC, 2020
- Life Member, Indian Physics Association, BARC, Mumbai, India
- Life Member, Indian Society for Radiation Physics, BARC, Mumbai, India
- Member of Various Committees (BoE, BoS, BoA etc.) in K. U. Dharwad & other Universities
- Core Committee Member of DST-PURSE-Phase-II, UGC-SAP-CAS Phase-II, Incubation & Innovative Programs, Karnatak University, Dharwad.
- Involved as member in organizing seminars/conferences/e-club activities etc.
- Worked as Director, Central Workshop, K.U. Dharwad
- Worked as General Secretary of K.U.PG Teachers Association, K.U. Dharwad.
- Local Co-Ordinator, GIAN Program, MHRD, Govt. of India


- RUSA(PM-USHA) Nodal Officer, RUSA Cell, Karnatak University, Dharwad
- Co-ordinator, Equal Opportunity Cell, Karnatak University, Dharwad
- Member, Research Advisory Committee, KLE Technological University, Hubballi
- Chairman, Policy on Maintenance and Utilization of Physical and Infrastructural Facility.
- Member, Patent Act Policy Committee, Karnatak University, Dharwad
- Worked as Member of Various other Committees of K.U. Dharwad
- Member, Doctoral Committee and Board of Studies, Mangalore University
- Chairman, Department of Physics, K. U. Dharwad from 19<sup>th</sup> July 2022 – till date
- Chairman, Doctoral Committee and Board of Studies, Dept. of Physics, K. U. Dharwad
- Member, Subject Expert Committee of NEP in Physics and Electronics
- Chief Coordinator, Central Evaluation Centre for PG Science Subjects, K.U. Dharwad

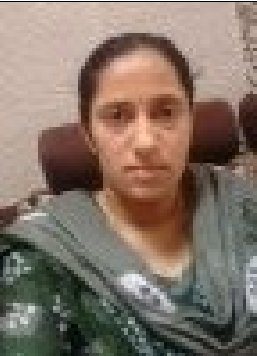
### **Invited Talks in National/International Conferences/Seminars/Workshops:**


- 1) Structural, Mechanical and Thermal Properties of LiClO<sub>4</sub> doped PVA/HOBt-CN composites  
Presented in Third International Conference on Natural Polymers (ICNP-2012) held at Mahatma Gandhi University, Kottayam, Kerala during 26 – 28<sup>th</sup> Oct. 2012
- 2) Positron Annihilation Lifetime Spectroscopy: Application in Materials Research  
Presented in One Day National Seminar on Current Topics in Condensed Matter Physics held at the Dept. of Physics, Karnatak University, Dharwad under UGC-SAP-CAS Phase-II Programme held during 27<sup>th</sup> to 28<sup>th</sup> March 2017
- 3) Frontier Technique of Nuclear Physics for Medical and Materials Research  
Presented in Inter-Disciplinary Refresher Course in Research Methodology in Science, held at UGC-Human Resource Development Centre, Karnatak University, Dharwad with theme “Science, Society and Indigenous Research” held on 16-03-2019
- 4) Effect of Free Volumes on Conducting Properties of GO and rGO filled PVA-PEDOT:PSS Composites  
Presented in International Conference on Physics of Materials and Nanotechnology (ICPN 2019), organized by Department of Physics, Mangalore University, Mangalore during Sept. 19-21, 2019.
- 5) Structural, Morphological and Optical Studies of (2E)-1-(Anthracen-9-yl)-3-(4-nitrophenyl) prop-2-en-1-one doped Poly(methyl methacrylate)  
Presented in International Conference on Advances in Polymeric Materials & Human Healthcare (APA-STERMI 2019) Organized by Asian Polymer Association (APA) in collaboration with Society of Tissue Engineering & Regenerative Medicine India (STERMI) held at International Centre Goa, India during 16-18 October, 2019.
- 6) Multifunctional Properties of Polymeric Materials  
Presented in One day National Workshop on Research Facility Training Programme (RFTP) for Research Scholars under DST/SERB Scientific Social Responsibility (SSR) Activity, held at Karnatak Science College, Dharwad on 21-11-2019
- 7) Relevance of Science and Technology to Society.  
Presented in One Day State Level Science Exhibition under IQAC and Science Association Initiative held at Shri Annadaneshwar Arts, Science, Commerce College & PG Centre, Naregal on 15-02-2021.


## Ph.D. Students: Awarded/Working


Sl. No.	Name of the Ph.D. Student	Title of the Ph.D. Thesis	Year of Registration/ Award	Photo
1	Dr. Sunil Rathod	Microstructural Studies on Solid Polymer Electrolytes	Registered on 01-08-2011 awarded on 12-08-2016	
2	Dr. Sheela T	Effect of Dopants on Microstructural Properties of Polymers	Registered on 01-08-2011 awarded on 13-06-2017	
3	Dr. Jagadish Naik	Preparation and Characterization of Polymer Nanocomposites	Registered on 07-01-2013 Awarded on 16-02-2018	

4	Ishwar K Naik	Optical and Conducting Properties of Polymer Nanocomposites	Registered on 07-01-2013	
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5	Dr. Vidyashri Hebbar	Nuclear and Other Experimental Studies on Polymer Composites	Registered on 12-12-2013 Awarded on 25-08-2018	
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6	Dr. Chandrappa H	Study of Irradiation Effects on Doped Polymers	Registered on 12-12-2013 Awarded on 14-02-2023	
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7	Kanakaraj T. M.	Studies on Polymer-Based Nanocomposites for Energy Storage Applications	Registered on 23-03-2016	
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8	Dr. Madhavi P. N.	Fluorescence Spectroscopic Studies on Polymer Nanocomposites	Registered on 23-03-2016 Awarded on 08-11-2021	
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9	Dr. Chetan Chavan	Free Volume and Ionic Conductivity in Polymer Nanocomposites	Registered on 27-12-2016 Awarded on 03-01-2023	
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10	Dr. Soumya S. Bulla	Opto-electronic Properties of Polymer Nanocomposites	Registered 27-12-2016 Awarded on 13-05-2022	
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11	Dr. Mallikarjun Anandalli	Preparation and Characterization of Fluorescent Dye Doped Polymer Nanocomposites	Registered on 27-12-2016 Awarded on 13-05-2022	
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12	Shivaprasad Chalawadi	Preparation and Characterization of Polymer-Based Nanocomposites for Sensor Applications	Registered on 01 Dec 2017	
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13	Satyappa Kalliguddi	Studies on Electrochemical Properties of Polymer Nanocomposites	Registered on 05-12-2018	
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14	Neha K.H	Ionic Conductivity and Dielectric Properties of Biodegradable Polymer Nanocomposites for Energy Storage Applications	Registered on 06-07-2022	
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15	Veda Gudihal	Preparation and Characterization of Polymer Nanocomposites for Dye Sensitized Solar Cell	Registered on 06-07-2022	
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16	Ashwini Burali	Preparation and Characterization of Fluorescent Polymer Nanocomposites for Sensor Application	Registered on 06-07-2022	
17	Suhas M. Malenahalli	Materials Science	Registered on 19-06-2023	
18	Mallikarjun Hoogar	Materials Science	Registered on 19-06-2023	

# SERB Research Project

## New Strategies for Energy Storage Systems using Polymer Ceramic Composite Electrolytes

(EEQ/2022/001028, Dated: 06 March, 2023)

**Broad Subject** : Physical Sciences  
**Area of Research** : Condensed Matter Physics  
& Materials Science  
**Duration in months** : 36 months  
**Total cost** : Rs. 40,53,060/-  
**Principal Investigator** : Dr. Rajashekhar F. Bhajantri  
**Major Equipment** : Electrochemical Workstation  
**Project Assistant** : Mohan S



### List of Publications:

2023

- 1) Optical structural and thermal studies of TiO<sub>2</sub>@ZnO core-shell incorporated methylene blue dye doped PVA polymer nanocomposites.  
Madhavi Nandimath, Rajashekhar F Bhajantri and Jagadish Naik  
*Physica Scripta* 98 (2023) 115969  
<https://doi.org/10.1088/1402-4896/ad01fc>
- 2) A study on solubility of bismuth cations in nickel cobalt ferrite nanoparticles and their influence on dielectric and magnetic properties.  
Smita Patil, Sunil Meti, Pratibha, S. Kanavi, R.F. Bhajantri, Mallikarjun Anandalli, Rajib Mond Sudip Karmakar, Mohammad Muhiuddin, Mohammad, Rizwanur Rahman, B.Chethan Kumar, Balachandra G. Hegde.  
*Materials Science and Engineering: B, Vol 296* (2023) 116570  
<https://doi.org/10.1016/j.mseb.2023.116570>
- 3) Tuning the energy storage performance of graphene oxide-based nanocomposite films by encapsulating silver nanoparticles.  
Jennifer P Pinto, Oshin Jacinth D'souza, Chetan Chavan, Rajashekhar F. Bhajantri, Saraswati P. Masti, Ravindra B. Chougale.  
*Diamond and Related Materials* 140 (2023) 110483  
<https://doi.org/10.1016/j.diamond.2023.110483>

- 4) Dominant role of organic dye on Mn: ZnS/PMMA polymer nanocomposites: Structural, thermal, linear, nonlinear optical properties for optoelectronic & photonic applications  
Mallikarjun H. Anandalli, R.F. Bhajantri, Shivaraj R. Maidur, L.A. Shastri, V. Sasirekha.  
***Materials Today Communications 35 (2023) 105918***  
<https://doi.org/10.1016/j.mtcomm.2023.105918>
- 5) Synthesis and Characterization of Fe<sub>3</sub>O<sub>4</sub>-oleate/Poly (vinyl alcohol) Nanocomposites for Electrical Applications. Kanakaraj T. M., Rajashekhar F. Bhajantri, Chetan Chavan, Soumya Bulla, Mallikarjun Anandalli, Malatesh S. Pujar, Mangesh S. Jadhav.  
***Indian Journal of Pure and Applied Physics 61, 659-670 (2023)***  
<https://doi.org/10.56042/ijpap.v61i8.952>
- 6) The effect of ZIF-8 nanoparticle concentration on microwave-assisted synthesis of poly(vinyl alcohol)-*co*-acrylic acid copolymeric membranes and their potential application in fuel cell. Mallikarjunagouda B. Patil, Shivalila G. Vader, S. N. Mathad, Arun Y. Patil, Shivaprasad Chalawadi, Rajashekhar F. Bhajantri.  
***Emergent Materials 6, 755-767 (2023)***  
<https://doi.org/10.1007/s42247-023-00497-w>.
- 7) Investigation on the structural and ion transport properties of magnesium salt doped HPMC-PVA based polymer blend for energy storage applications.  
Kanakaraj T. M, R. F. Bhajantri, Chetan Chavan, Vipin Cyriac, Soumya S Bulla, Ismayil.  
***Journal of Non-Crystalline Solids 609 (2023) 122276.***  
<https://doi.org/10.1016/j.jnoncrysol.2023.122276>
- 8) Physical, Structural, and Photoluminescence Characteristics of Sm<sub>2</sub>O<sub>3</sub> Doped Lithium Zinc Borate Glasses Bearing Large Concentrations of Modifier.  
Kavita Hanamar, B. G. Hegde, S. B. Kolavekar, N. H. Ayachit, A G Pramod, K Keshavamurthy, Mallikarjun H Anandalli, R. F. Bhajantri.  
***Journal of Inorganic and Organometallic Polymers and Materials (2023)***  
<https://doi.org/10.1007/s10904-023-02585-0>
- 9) Switching the photo physics of MDMO-PPV under PMMA environment- a boon for organic electronics. Ishwar Naik, R. F. Bhajantri, Vinayak Bhat, B. S. Patil, Vasant S. Naik.  
***Journal of Polymer Research (2023) 30:133***  
<https://doi.org/10.1007/s10965-023-03511-1>
- 10) Variation in optical properties of Poly vinyl alcohol using zinc halide for UV region applications. Vignesh Vinod, Mayuri Kale, Anshuja Deshmukh, Ajit Deore, Madhavi Nandimath, R. F. Bhajantri, Jagadish Naik.  
***Journal of Physics: Conference Series 2426 (2023) 012066,***  
***doi:10.1088/1742-6596/2426/1/012066***

11) Investigations on anomalous behavior of ionic conductivity in NaPF<sub>6</sub> salt loaded hydroxyethyl cellulose biodegradable polymer electrolyte for energy storage applications  
Chetan Chavan, R. F. Bhajantri, Vipin Cyriac, Ismayil, Soumya S. Bulla, K. Sakthipand.  
***Polym Adv Technol. 2023;1-18. DOI: 10.1002/pat.6004***

## 2022

12) Biosynthesized Silver Nanoparticles Encapsulated in Poly (vinyl alcohol) Matrix: Dielectric and Structural Properties. Soumya S. Bulla, R. F. Bhajantri, C. Chavan, and K. Sakthipandi  
***ChemistrySelect (2022), e202201771, doi.org/10.1002/slct.202201771***

13) Insight into the impact of neutron irradiation on optical parameters of poly (methyl methacrylate) (PMMA) loaded with methyl red (MR). Soumya S. Bulla, R. F. Bhajantri, Chetan Chavan, ***Karnatak University Journal of Science 53 (2022) 20-28***

14) Modification in the microstructure of sodium carboxymethylcellulose/polyvinyl alcohol polyblend films through the incorporation of NaNO<sub>3</sub> for energy storage applications, Vipin Cyriac, Ismayil, Ikhwan Syafiq Bin Mohd Noor, Z. E. Rojudi, Y. N. Sudhakar, Chetan Chavan, Rajashekhar F. Bhajantri, M. S. Murari  
***International Journal of Energy Research 2022; 1-22. DOI: 10.1002/er.8588***

15) Development of Zn<sub>1-x</sub>Ba<sub>x</sub>O nanoparticles reinforced poly(vinyl alcohol) macromolecular nanocomposite films: Eco-friendly integrated materials for optical systems  
H. Chandrappa, R. F. Bhajantri, Ismayil, K. N. Ganesha,  
***J. Appl. Polym. Sci. 2022, e52791. <https://doi.org/10.1002/app.52791>***

16) Exploration of Free Volume Behavior and Ionic Conductivity of PVA: x (x = 0, Y<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>, YSZ) Ion-Oxide Conducting Polymer Ceramic Composites. Chetan Chavan, R.F. Bhajantri, Vipin Cyriac, Ismayil, Soumya Bulla, H.B. Ravikumar, M. Raghavendra, K. Sakthipandi,  
***Journal of Non-Crystalline Solids 590 (2022) 121696,***  
**<https://doi.org/10.1016/j.jnoncrysol.2022.121696>**

17) Tuning the ionic conductivity of flexible polyvinyl alcohol/sodium bromide polymer electrolyte films by incorporating silver nanoparticles for energy storage device applications, Vipin Cyriac, Shilpa Molakalu Padre, Ismayil, Gurusurthy Sangam Chandrashekar, Chetan Chavan, R.F. Bhajantri, Mudiaryu Subrahmanya Murari.  
***J Appl Polym Sci. 2022; e52525, <https://doi.org/10.1002/app.52525>***

18) Ion dynamics and positron annihilation studies on polymer ceramic composite electrolyte system (PVA/NaClO<sub>4</sub>/Y<sub>2</sub>O<sub>3</sub>): Application in electrochemical devices.  
Chetan Chavan, R.F. Bhajantri Soumya Bulla, H.B. Ravikumar, M. Raghavendra, K. Sakthipandi, K. Yogesh Kumar, B.P. Prasanna.  
***Ceramics International 48 (2022) 17864-17884***  
**<https://doi.org/10.1016/j.ceramint.2022.03.058>**

- 19) Ionic conductivity enhancement of PVA: carboxymethyl cellulose poly-blend electrolyte films through the doping of NaI salt. Vipin Cyriac, Ismayil, I. M. Noor, Kuldeep Mishra, Chetan Chavan, R. F. Bhajantri, Saraswati P. Masti.  
***Cellulose* (2022) 29:3271–3291**, <https://doi.org/10.1007/s10570-022-04483-z>
- 20) ZnO:Ca MSM ultraviolet photodetectors  
Basavaraj G. Hunashimarad, J.S. Bhat, P.V. Raghavendra, R.F. Bhajantri  
***Optical Materials* 124 (2022) 111960**  
<https://doi.org/10.1016/j.optmat.2021.111960>
- 2021**
- 21) Designed and fabricated a low-cost E-Spun experimental tool for polymer processing, Chetan Chavan, R.F. Bhajantri, Soumya S Bulla and K Sakthipandi  
***Indian Journal of Engineering & Materials Sciences* 28 (2021) 343-349**  
URI: <http://nopr.niscair.res.in/handle/123456789/58256>
- 22) Indigenously Designed and Fabricated Mechanical Milling Set-up to Synthesis Nanoparticles: A Cost-effective Method  
Chetan Chavan, R.F. Bhajantri, Soumya S. Bulla & K Sakthipandi  
***Indian Journal of Pure & Applied Physics* Vol. 59, September 2021, pp. 603-611**  
<http://nopr.niscair.res.in/handle/123456789/58135>
- 23) Dominant nature of 7-hydroxy 4-methyl coumarin dye on thermal, fluorescence and antimicrobial properties of PVA/OMS blend films  
Vishram D. Hiremani, Mallikarjun H. Anandalli, Tilak Gasti, Shruti Dixit, Praveen K. Bayannavar, Saraswati P. Masti, R. F. Bhajantri, Shyam Kumar Vootla, Bhagyavana. S. Mudigoudra & Ravindra B. Chougale ***Journal of Polymer Research* 28, 353 (2021)**  
<https://doi.org/10.1007/s10965-021-02720-w>
- 24) Target-to-substrate distance influenced linear and nonlinear optical properties of a-plane oriented ZnO:Al thin films  
Prasad Kumar, S. M. Dharmaprakash, M. Ananya Kote, K. M. Sandeep, Parutagouda Shankaragouda Patil & R. F. Bhajantri  
***Journal of Materials Science: Materials in Electronics* 32 (2021) 22214–22231**  
**IF: 2.220**, <https://link.springer.com/article/10.1007/s10854-021-06704-w>
- 25) Impact of brilliant green (BG) dye on structural, linear and third order nonlinear optical properties of polyvinyl alcohol (PVA) polymer composites for optoelectronic applications, Mallikarjun H. Anandalli, R. F. Bhajantri, S. R. Maidur, P.S. Patil  
***Journal of Materials Research* 36, 2856–2871 (2021), Impact Factor: 2.502**  
<https://link.springer.com/article/10.1557/s43578-021-00289-0>
- 26) Synthesis and characterization of polythiophene/zinc oxide nanocomposites for chemiresistor organic vapor-sensing application  
Soumya S. Bulla, R. F. Bhajantri, Chetan Chavan, K. Sakthipandi  
***Journal of Polymer Research* 28 (2021) 251, Impact Factor: 2.426**  
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- 27) Physico-chemical properties of PVA-Nile blue (C<sub>20</sub>H<sub>20</sub>ClN<sub>3</sub>O) polymer composite structures for  $\gamma$ -ray protection: A comparative  $\gamma$ -ray irradiation studies.  
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- 21) Mechanical Properties of Ternary Polymer PVC/PVAc/PEG Blend Films  
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- 24) Effect of LiClO<sub>4</sub> on Structural, Optical and Electrical Properties of  
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Sunil Rathod, **R. F. Bhajantri**, V. Ravindrachary, P. K. Pujari, Boja Poojary, T. Sheela  
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University, Kolhapur, Maharashtra, India
- 25) Fluorescence and Microstructural Properties of Methyl Orange doped PVA  
Renuka Sali, **R. F. Bhajantri**, V. Ravindrachary, Boja Poojary, Ismayil,  
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Mahatma Gandhi University Kottaym 26 – 28<sup>th</sup> Oct. 2012
- 28) Structural, Mechanical & Thermal Properties of LiClO<sub>4</sub> doped PVA/HOBt-CN  
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- 30) New Class of LiClO<sub>4</sub> Doped PVA/Chitosan-HOBt Bio Polymer Based Solid  
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- 31) Investigation of Mechanical Behavior of Poly(vinylalcohol)/Poly(vinylpyrrolidone)/  
Gum Ghatti Ternary Blend films, Ravindra Chougale, Saraswati Masti, **R. F. Bhajantri**  
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(ICRAMST-13), Department of Chemistry, National Institute of Technology,  
Karnataka (NITK), Surathkal, Mangalore, during 17-19<sup>th</sup> January, 2013
- 32) Photochromic and Microstructural Properties of PC/MPDMAPP Composite  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary P.K. Pujari, Sunil G. Rathod  
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- 33) Effect of UV Irradiation on Mechanical and Microstructural Properties of PVA/  
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Technology Punjab University, Chandigarh Feb. 21-23, 2013
- 34) Influence of TiO<sub>2</sub> loading on Mechanical, Thermal and Dielectric Properties of  
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Sunil G. Rathod, **R. F. Bhajantri**, V. Ravindrachary, Jagadish Naik, T. Sheela,  
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- 35) Electron Beam Irradiation Induced Modifications in Electrical, Optical and  
Microstructural Properties of NaClO<sub>4</sub> doped PVA/NaAlg Polymer Composite  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary, Sunil G. Rathod, Jagadish Naik,  
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- 36) PLT and DBAR Investigations on MPDMAPP Doped PVA/PVP Blend  
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- 37) PALS and DBAR Study on LiClO<sub>4</sub> doped PVA/NaAlg Blend Based Polymer Electrolyte  
 T. Sheela, P.M.G. Nambissan, V. Ravindrachary, Blaise Lobo, Vidyashree Hebbar, Jagadish Naik and **R. F. Bhajantri**,  
 11th International Workshop on Positron and Positronium Chemistry (PPC-11) held at Cidade de Goa, Goa, India during 9-14, November 2014.
- 38) Positron Trapping Studies on PVA/MPDMAPP Photochromic Nanocomposite  
 Sunil G. Rathod, V. Ravindrachary, Blaise Lobo, Jagadish Naik, T. Sheela.  
**R. F. Bhajantri**,  
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- 39) DBS Investigation on Films of Cobalt Chloride Doped PVA-PVP Blend  
 Preeti B. Hammannavar, B. M. Basavarajeshwari, **R. F. Bhajantri**,  
 V. Ravindrachary and Blaise Lobo  
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- 40) Computation of DBAR Parameters in Polypyrrole Incorporated PVA Films  
 B. M. Basavarajeshwari, Preeti B. Hammannavar, M. R. Ranganath,  
**R. F. Bhajantri**, V. Ravindrachary, Manjunath Hurkadli, Chetan Hundekar Blaise Lobo,  
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- 41) Computation of Size of Spherical and Non-Spherical Voids in Semi-Crystalline Polymeric Materials  
 Preeti B. Hammannavar, Chetan B. Hundekar, Manjunath Y. Hurkadli,  
 Girish Badiger, **R.F. Bhajantri**, V. Ravindrachary and Blaise Lobo,  
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- 42) Free volume related microstructural studies on polymer blend electrolytes  
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- 43) Optical properties of Rhodamine-6G fluorescent dye doped PVA  
 Jagadish Naik, **R.F. Bhajantri**, Sunil Rathod, Sheela T, Vidyashree, Chandrappa,  
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- 44) Electrochemical and Mechanical Properties of ZnBr<sub>2</sub>/PVA Composites for Energy Storage Applications  
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- 45) Humidity sensing and electrochemical properties of graphene oxide doped PVA nanocomposites, Sunil G. Rathod, **R F Bhajantri**, V Ravindrachary, Jagadish Naik  
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- 46) Role of ZrO<sub>2</sub> Filler on Mechanical and Conducting Properties of PVA/NaClO<sub>4</sub> Composites  
Jagadish Naik, **R.F. Bhajantri**, Sunil Rathod, Vidyashree Hebbar, Chandrappa H, Mallikarjun H Anandalli, Sheela T,  
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- 47) Optical properties of polymer films of PVA doped with Thiazole Yellow G dye  
Vidyashree Hebbar, **R. F. Bhajantri**, Sunil Rathod, Jagadish Naik, Chandrappa H., M. H. Anandalli, Sheela T  
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- 48) Fluorescence studies on PMMA/ZnO Nanocomposite capped with 1-chloro-9,10-bis(phenylethynyl) anthracene  
Mallikarjun Anandalli, **R.F. Bhajantri**, Kanakaraj T M, Jagadish Naik, Vidyashree Hebbar  
International Conference on Advances in Polymer Science & Technology (APA-2017), Radisson Blu Hotel, Dwarka, New Delhi, India, 23-25 November, 2017
- 49) Physico-chemical properties of PMMA/ZnO Nanocomposite capped with 1-Chloro-9,10-bis (phenyl ethynyl) anthracene  
Mallikarjun Anandalli, **R. F. Bhajantri**, Vidyashree Hebbar, Kanakaraj T, M, Chetan Chavan, Chandrappa. H, Soumya. S. Bulla  
2<sup>nd</sup> International Conference on Condensed Matter and Applied Physics (ICC-2017) Govt. Engg College, Bikaner, Rajasthan, India, 24-25 November 2017
- 50) Study of Opto-electronic Properties of PMMA/TiO<sub>2</sub>/Rh6G Fluorescent Polymer Nano composites.  
Madhavi Nandimath, Jagadish Naik, Vidyashree Hebbar, **R. F. Bhajantri**.  
19<sup>th</sup> International workshop on Physics of Semiconductor Devices-2017 Organized by SSPL, Delhi DRDO and IIT Delhi, Dec. 11-15, 2017 IIT Delhi, New Delhi.
- 51) Free Volumes Studies on GO and rGO Filled PVA-PEDOT:PSS Composites  
Vidyashree Hebbar, **R.F. Bhajantri**, H. B. Ravikumar, S. Ningaraju  
Third DAE-BRNS Sponsored Trombay Positron Meeting (POSITRON-2018)  
Bhabha Atomic Research Centre, Mumbai-400 085, India, March 23-24, 2018

- 52) Optical & thermal studies on synthesized chalcone derivative doped PMMA matrix  
Mallikarjun Anandalli, **R.F. Bhajantri**, P.S. Patil, Shivaraj R. Maidur, Soumya Bulla, Chetan Chavan, Kanakaraj T.M.  
Third international conference on nanomaterials: synthesis, characterization and applications (ICN 2018), Mahatma Gandhi University, Kottayam, 11-13 May 2018
- 53) Optical and Electrical Properties of TCNQ Doped PMMA Films  
Ishwar Naik, Rajashekhar F. Bhajantri, A. Pragasam, Sanjay Surya Bhat  
1<sup>st</sup> International Conference on “Multidimensional Role of Basic Science in Advanced Technology” (ICMBAT 2018), held during 14th-15th December 2018 at K.D.K. College of Engineering, Nagpur, India
- 54) Novel Properties of PMMA/PVAc Matrix, Slightly Doped with MDMO-PPV  
Ishwar Naik, Rajashekhar F. Bhajantri, Vinayak bhat  
1st International Conference on “Multidimensional Role of Basic Science in Advanced Technology” (ICMBAT 2018), held during 14th-15th December 2018 at K.D.K. College of Engineering, Nagpur, India
- 55) Optical, Structural and Thermal studies on synthesized chalcone derivative doped PMMA composite films.  
Mallikarjun Anandalli, **R.F. Bhajantri**, Shivaraj R. Maidur, P. S. Patil.  
5<sup>th</sup> International conference on Nanoscience and Nanotechnology (ICONN-2019). SRM University Kattankulathur, Tamilnadu during 28-30, Jan. 2019
- 56) Role of Free Volumes in Conducting Properties of GO and rGO filled PVA/PEDOT:PSS Polymer Composites  
**R.F. Bhajantri**, Vidyashree Hebbar, H.B. Ravikumar and S. Ningaraju  
International Conference on Physics of Materials and Nanotechnology (ICPN 2019), Department of Physics, Mangalore University, Mangalore during Sept. 19-21, 2019.
- 57) Effect of Calcination Temperature on Synthesized ZnO Nanoparticles.  
Chetan Chavan, **R.F. Bhajantri**, Soumya Bulla, Shivaprasad Chalawadi, Maliakarjun Anandahalli, Satyappa Kalliguddi.  
International Conference on Physics of Materials on Nanotechnology (ICPN-2019), Department of Physics, Mangalore University, Mangalagangothri, Sept. 19-21, 2019.
- 58) Optical properties of Neutron Irradiated PMMA doped Methyl Red  
Soumya S Bulla, **R.F. Bhajantri**, Chetan Chavan, Shivaprasad Chalawadi, Maliakarjun Anandahalli, Satyappa Kalliguddi.  
International Conference on Physics of Materials on Nanotechnology (ICPN-2019), Department of Physics, Mangalore University, Mangalagangothri, Sept. 19-21, 2019.

- 59) Electrical and dielectric studies on MnO<sub>2</sub> doped PVA/NaClO<sub>4</sub> polymer Nanocomposites  
Kanakaraj T M, **R.F. Bhajantri**, Maliakarjun Anandahalli,  
International Conference on Physics of Materials on Nanotechnology (ICPN-2019),  
Department of Physics, Mangalore University, Mangalagangothri, Sept. 19-21, 2019.
- 60) Enhanced dielectric properties of LiClO<sub>4</sub> based PVA/Cellulose stretchable composites  
Shivaprasad Chalawadi, R.F. Bhajantri, Sunil G Rathod, Chetan Chavan, Maliakarjun  
Anandahalli, Satyappa Kalliguddi.  
International Conference on Physics of Materials on Nanotechnology (ICPN-2019),  
Department of Physics, Mangalore University, Mangalagangothri, Sept. 19-21, 2019.
- 61) Investigation of Linear and Non-Linear Optical Properties Brilliant Green(BG) dye  
doped PVA Polymer Composites  
Maliakarjun Anandahalli, R.F. Bhajantri, Shivaraj R Maidhur, Parutagouda  
Shankaragouda Patil,  
Second International Conference on Advanced Materials & Technology (ICMAT-20)  
Organized by Sri Jayachamarajendra College of Engineering Mysore on 16-18 Jan 2020
- 62) An innovative-low-cost Prototype of E-Spun.  
Chetan Chavan, R. F. Bhajantri, Soumya S Bulla, PP-177, 192.  
International Conference on Advanced Materials Science & Applications ICAMSA-2020  
Department of Physics, Ramaiah Institute of Technology, Bangalore, Karnataka, India  
during 3<sup>rd</sup> to 4<sup>th</sup> September 2020.
- 63) Study of AC and DC conductivity of Prepared UV-Irradiated PVA-PEGBi2O3-ZnSe  
Nanocomposite  
Soumya S Bulla, R. F. Bhajantri, Chetan Chavan PP-178 193  
International Conference on Advanced Materials Science & Applications ICAMSA-2020  
Department of Physics, Ramaiah Institute of Technology, Bangalore, Karnataka, India  
during 3<sup>rd</sup> to 4<sup>th</sup> September 2020.
- 64) Optical and Electrical Properties of Polyaniline Grafted Pullulan-Chitosan Blend  
Shivaprasad Chalawadi, R. F. Bhajantri, Mallikarjun Anandalli, Chetan Chavan, Soumya  
Bulla, Satyappa Kalliguddi PP-154 169  
International Conference on Advanced Materials Science & Applications ICAMSA-2020  
Department of Physics, Ramaiah Institute of Technology, Bangalore, Karnataka, India  
during 3<sup>rd</sup> to 4<sup>th</sup> September 2020.
- 65) Investigation of structural, thermal, and mechanical properties of high filler CdSe  
dispersed PMMA polymer nanocomposites  
Mallikarjun Anandalli, R. F. Bhajantri, Kanakaraj T.M, Satyappa Kalliguddi,  
Shivaprasad Chalawadi, Chetan Chavan, Soumya Bulla.  
**Oral Presentation** in International Conference on Advanced Materials Science &  
Applications ICAMSA-2020, Department of Physics, Ramaiah Institute of Technology,  
Bangalore, Karnataka, India during 3<sup>rd</sup> to 4<sup>th</sup> September 2020.



## B. National Conferences

- 1) Dielectric studies on BaCl<sub>2</sub> doped Poly (vinyl alcohol),  
**R. F. Bhajantri**, A Harisha, Vincent Crasta, Suresh P Naik and V Ravindrachary,  
46<sup>th</sup> DAE Solid State Physics Symposium  
Jiwaji University, Gwalior, 26-30<sup>th</sup> Dec 2003. Proc. Vol. 46 (2003) 61
- 2) Effect of BaCl<sub>2</sub> doping on the microstructure of Poly (vinyl alcohol)  
**R. F. Bhajantri**, V Ravindrachary, A. Harisha, Vincent Crasta  
National Conference on "Current Trends in Condensed Matter Research"  
Kakathiya University, Warangal, 20-22, Sept. 2004
- 3) Growth and Characterization of a Chalcone Derivative Crystals  
Vincent Crasta, V Ravindrachary, **R. F. Bhajantri**  
National Conference on "Current Trends in Condensed Matter Research"  
Kakathiya University, Warangal, 20-22, Sept. 2004 [Max Points: 7.5]
- 4) Dopant induced Microstructural study of Poly(vinyl alcohol)  
**R. F. Bhajantri**, V Ravindrachary, Vincent Crasta, A. Harisha  
49<sup>th</sup> DAE Solid State Physics Symposium BARC, Mumbai, Guru Nanak Dev  
University, Amritsar, 26-30<sup>th</sup> Dec 2004, Proc of DAE-SSP Symp 49(2004) 191.
- 5) Synthesis and Crystal Growth of an Organic NLO Crystal  
Vincent Crasta, V Ravindrachary, **R. F. Bhajantri**  
49<sup>th</sup> DAE Solid State Physics Symposium BARC, Mumbai, Guru Nanak Dev  
University, Amritsar, 26-30<sup>th</sup> Dec 2004, Proc DAE-SSPS, Vol. 49(2004) 193
- 6) FTIR, DSC and XRD studies on Poly (vinyl alcohol)-Barium Chloride  
Composite, **R. F. Bhajantri**, V. Ravindrachary, Vincent Crasta & A. Harisha  
3rd National Conference on Polymers (Polymer blend and Composites)  
MACRO-05, S. J. C. E, Mysore, 15-16<sup>th</sup> April 2005
- 7) Electron beam and UV irradiation Studies of Poly (vinyl alcohol) - BaCl<sub>2</sub>  
Composite, A. Harisha, V. Ravindrachary, **R. F. Bhajantri** & Vincent Crasta  
3rd National Conference on Polymers (Polymer blend and Composites)  
MACRO-05, S. J. C. E, Mysore, 15 - 16<sup>th</sup> April 2005
- 8) DSC Studies on Electron Beam & UV Irradiated PVA Doped with BaCl<sub>2</sub>  
A Harisha, V. Ravindrachary, **R. F. Bhajantri** and Vincent Crasta  
50<sup>th</sup> DAE Solid State Physics Symposium BARC, Mumbai, 5-9<sup>th</sup> Dec 2005,  
Proceedings of DAE-SSPS, Volume 50(2005) 939
- 9) Effect of Ferric Chloride Doping on Microstructural properties of PVA  
**R. F. Bhajantri**, V. Ravindrachary, A Harisha, and Vincent Crasta  
50<sup>th</sup> DAE Solid State Physics Symposium BARC, Mumbai, 5-9<sup>th</sup> Dec 2005, Proceedings  
of DAE-SSP Symposium, Volume 50(2005) 713
- 10) Effect of Electron Irradiation on KCl doped PVA  
A Harisha, V Ravindrachary, **R. F. Bhajantri**, Vincent Crasta  
National conference on Novel Materials and technologies (NCNMT-2006)  
Sri Venkateswara University, Tirupathi, 17-18<sup>th</sup> Feb. 2006

- 11) Optical, Dielectric and Microhardness Studies on a Nonlinear Optical Single Crystal, Vincent Crasta, V Ravindrachary, **R. F. Bhajantri**, A Harisha and P C Rajesh Kumar, National conference on Novel Materials and technologies (NCNMT-2006), Sri Venkateswara University, Tirupathi, 17-18<sup>th</sup> Feb. 2006
- 12) Electron beam induced modifications in ferric chloride doped PVA  
A. Harisha, V. Ravindrachary and **R. F. Bhajantri**  
Proc of the National conference on emerging trends in Physics, Electronics and Engineering Sciences JSS College, Mysore-25 Sept. 25-26, 2006, pp 5-8
- 13) Optical, Dielectric and Microhardness Studies on a Nonlinear Optical Single Crystal, Vincent Crasta V Ravindrachary, **R. F. Bhajantri**, A Harisha, P C Rajesh Kumar,  
Proc of the National conference on emerging trends in Physics, Electronics & Engineering Sciences JSS College Mysore, Sept. 25-26, 2006, 257-260
- 14) Positron Annihilation & XRD studies on ferric chloride doped PVA  
**R. F. Bhajantri**, V. Ravindrachary, A Harisha, and C. Ranganathaiah  
DAE symposium, Bharkatulla University, Bhopal, M.P., Dec. 26-30, 2006,  
Proc. of DAE-SSP Symposium Vol. 51(2006) 229-230
- 15) DSC & XRD studies on Electron Irradiated KCl doped poly (vinyl alcohol)  
A. Harisha, V. Ravindrachary and **R. F. Bhajantri**  
DAE symposium, Bharkatulla University, Bhopal, M.P., Dec. 26-30, 2006,  
Proceedings of DAE-SSP Symposium Vol. 51(2006) 231-232
- 16) Positron Annihilation Studies on BaCl<sub>2</sub> doped poly(vinyl alcohol)  
**R. F. Bhajantri**, V Ravindrachary, A. Harisha and C Ranganathaiah  
Proceedings of the Nuclear & Radiochemistry Symposium (NUCAR-2007)  
M S University Baroda, Feb. 14-17, 2007, 131-132
- 17) Positron Annihilation Studies on BaCl<sub>2</sub> doped poly(vinyl alcohol)  
**R. F. Bhajantri**, V Ravindrachary, A. Harisha and C Ranganathaiah  
Proceedings of the Nuclear & Radiochemistry Symposium (NUCAR-2007)  
M S University Baroda, Feb. 14-17, 2007, 131-132
- 18) Positron Annihilation and XRD studies on alkali salt doped PVA  
**R. F. Bhajantri**, V. Ravindrachary, A. Harisha, Ismayil and C Ranganathaiah  
Seventeenth National Symposium on Radiation Physics (NSRP-17),  
Saha Institute of Nuclear Physics, Kolkata, Nov14-16, 2007
- 19) Positron annihilation study of 8 MeV electron beam irradiated KCl doped PVA  
A Harisha, V Ravindrachary, **R. F. Bhajantri**, Ismayil, S Ganesh, D Dutta, P K Pujari  
52<sup>nd</sup> DAE Solid State Physics Symposium, University of Mysore, Dec 27-31, 2007
- 20) Electron irradiation induced chemical and optical properties of FeCl<sub>3</sub> doped PMMA  
Ismayil, V Ravindrachary, **R. F. Bhajantri**, A Harisha, K K Kamani, S Ganesh  
NCAMDT - 2008, Sri Venkateswara University, Tirupati, Feb 20-22, 2008
- 21) Optical and XRD studies of an Organic Single Crystal  
Rajesh Kumar P C, V Ravindrachary, **R. F. Bhajantri** and Vincent Crasta  
NCAMDT - 2008, Sri Venkateswara University, Tirupati, Feb 20-22, 2008

- 22) DC Conductivity studies on Lithium Tetra Borate doped PVA  
Ismayil, V Ravindrachary, **R. F. Bhajantri**, A Harisha, S D Praveena, Srinivasa L  
53<sup>rd</sup> DAE Solid State Physics Symposium, BARC, Mumbai, Dec 16-20, 2008
- 23) Studies on Optical Properties of FeCl<sub>3</sub> doped PMMA  
K K Kamani, V Ravindrachary, **R. F. Bhajantri**, A Harisha and Ismayil  
53<sup>rd</sup> DAE Solid State Physics Symposium, BARC, Mumbai, Dec 16-20, 2008
- 24) Electron beam irradiation effects on PVA:NaBr Solid Polymer Electrolytes  
Studied by positron annihilation  
Ismayil, V. Ravindrachary, **R.F. Bhajantri**, A. Harisha, S.D. Praveena,  
Ganesh Sanjeev, Dhanadeep Dutta and P.K. Pujari,  
18<sup>th</sup> National Symposium on Radiation Physics (NSRP-18),  
Mohanlal Sukhadia University, Udaipur, Rajasthan, Nov 19-21, 2009
- 25) Microstructural modification of PVA on 8MeV electron irradiation  
A. Harisha, V. Ravindrachary, **R.F. Bhajantri**, Ismayil and Ganesh Sanjeev  
18<sup>th</sup> National Symposium on Radiation Physics (NSRP-18),  
Mohanlal Sukhadia University, Udaipur, Rajasthan, Nov 19-21, 2009
- 26) Electrical and Optical properties of TiO<sub>2</sub>/PVA nanocomposites  
S D Praveena, V Ravindrachary, **R F Bhajantri**, A Harisha and Ismayil  
54<sup>th</sup> DAE Solid State Physics Symposium, Maharaja Sayajirao University of  
Baroda, Vadodara, Gujarat, Dec 14-18, 2009
- 27) Effect of electron beam irradiation on optical properties of Chalcone doped PVA films  
Ismayil, V. Ravindrachary, **R.F. Bhajantri**, A. Harisha, S D. Praveena, Vincent  
Crasta, Ganesh Sanjeev, 54<sup>th</sup> DAE Solid State Physics Symposium, Maharaja  
Sayajirao University of Baroda, Vadodara, Gujarat, Dec 14-18, 2009.
- 28) Effect of electron irradiation on the optical and electrical properties of  
Lithium Tetra Borate doped Poly(vinyl alcohol)  
Ismayil, V. Ravindrachary, **R.F. Bhajantri**, A. Harisha and S.D. Praveena  
National Conference on Engineering of Materials through Energetic Particles  
(NCEMEP), Bahubali College of Engineering, Shravanabelagola, April 8-10, 2010.
- 29) Free Volume Related Fluorescence Properties of Electron Irradiated Chalcone  
Doped PMMA  
Ismayil, V. Ravindrachary, **R. F. Bhajantri**, A. Harishaa, S. D. Praveen  
55<sup>th</sup> DAE Solid State Physics Symposium 2010, Manipal University Madhav Nagar,  
Manipal during December 26 – 30, 2010.
- 30) Diffusion Studies of FeCl<sub>3</sub> doped Poly(vinyl alcohol) films  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary Ismayil, Sunil Rathod, S D. Praveena  
56<sup>th</sup> DAE Solid State Physics Symposium SRM University Kattankulathur, Tamilnadu  
during 19-23, Dec. 2011
- 31) Positron annihilation studies on KCl/PVA composites,  
A. Harisha, V. Ravindrachary, **R.F. Bhajantri**, Ismayil, Sunil Rathod, S D. Praveena  
Trombay Meeting on Positrons in Materials, Medicine and Industry(Positron-2012),  
Bhabha Atomic Research Centre, Trombay, Mumbai, India. March 12-14, 2012.

- 32) Microstructure study of PVA/Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub> Composite  
S.D. Praveena, V. Ravindrachary, **R.F. Bhajantri**, A. Harisha, Sheela, Ismayil  
Trombay Meeting on Positrons in Materials, Medicine and Industry (Positron-2012),  
Bhabha Atomic Research Centre, Trombay, Mumbai, India. March 12-14, 2012.
- 33) Optical and Dielectric Properties of TiO<sub>2</sub> doped PVA-CN/LiClO<sub>4</sub> Composite Electrolyte  
Sunil G. Rathod, **R. F. Bhajantri**, V. Ravindrachary, P.K. Pujari, T. Sheela  
57<sup>th</sup> DAE Solid State Physics Symposium, Indian Institute of Technology Bombay,  
Mumbai, 3-7<sup>th</sup> Dec. 2012.
- 34) Photochromic and microstructural properties of methyl orange doped PVA  
**R. F. Bhajantri**, Renuka Sali, V. Ravindrachary, P. K. Pujari, T. Sheela, Sunil G Rathod  
57<sup>th</sup> DAE Solid State Physics Symposium, Indian Institute of Technology Bombay,  
Mumbai, 3-7<sup>th</sup> Dec. 2012.
- 35) Preparation and Characterization of NaClO<sub>4</sub> doped Poly(vinyl alcohol)/Sodium  
Alginate Composite Electrolyte  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary, P.K. Pujari, Sunil G. Rathod  
57<sup>th</sup> DAE Solid State Physics Symposium, Indian Institute of Technology, Bombay,  
Mumbai, 3-7<sup>th</sup> Dec. 2012.
- 36) Free volume dependent fluorescence property of PMMA composite:  
Positron annihilation studies  
V. Ravindrachary, S. D. Praveena, **R. F. Bhajantri**, Ismayil, Vincent Crasta  
57<sup>th</sup> DAE Solid State Physics Symposium, Indian Institute of Technology, Bombay,  
Mumbai, during 3-7<sup>th</sup> Dec. 2012.
- 37) Free volume related electrical properties of sodium alginate/LiClO<sub>4</sub> solid polyelectrolyte,  
S. D. Praveena, V. Ravindrachary, **R. F. Bhajantri**, and Ismayil  
57<sup>th</sup> DAE Solid State Physics Symposium, Indian Institute of Technology, Bombay,  
Mumbai, during 3-7<sup>th</sup> Dec. 2012.
- 38) Influence of UV Irradiation on Microstructural Properties of NaClO<sub>4</sub> doped  
Poly(vinyl alcohol)/Sodium Alginate Composite Electrolyte  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary, Ismayil, Sunil G. Rathod  
National conference CMPA – 2012, MIT, Manipal, 27 - 28, Dec. 2012.
- 39) Optical and Microstructural Studies on Chalcone Derivative Doped Polycarbonate  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary, Sunil G. Rathod, Jagadish Naik,  
V. Nandakumar  
UGC Sponsored Two Days National Conference on Emerging  
Trends in Condensed Matter Physics (ETCMP-2013), Government First Grade  
College Bettampady, Puttur Taluk, D.K., Karnataka during 5-6<sup>th</sup> Sept. 2013.
- 40) Dielectric and Mechanical Studies of PVA/modified Cellulose Biopolymer Blend  
Sunil G. Rathod, **R. F. Bhajantri**, V. Ravindrachary, T. Sheela, Jagadish Naik,  
V. Nandakumar, UGC Sponsored Two Days National Conference on Emerging  
Trends in Condensed Matter Physics (ETCMP-2013), Government First Grade  
College Bettampady, Puttur Taluk, D.K., Karnataka during 5-6<sup>th</sup> Sept. 2013.

- 41) Ionic Conductivity Studies in Crystalline PVA/NaAlg Polymer Blend Electrolyte Doped with Alkali Salt KCl  
T. Sheela, **R. F. Bhajantri**, V. Ravindrachary, P.K. Pujari, Sunil G. Rathod, Jagadish Naik, 58<sup>th</sup> DAE Solid State Physics Symposium (DAE-SSPS-2013), Thapar University, Patiala during December 17-21, 2013.
- 42) Thermal, Mechanical and Dielectric Properties of Poly(vinyl alcohol)/Graphene Oxide Composites  
Sunil G. Rathod, **R. F. Bhajantri**, V. Ravindrachary, P.K. Pujari, T. Sheela, Jagadish Naik  
58<sup>th</sup> DAE Solid State Physics Symposium (DAE-SSPS-2013), Thapar University, Patiala during December 17-21, 2013.
- 43) Dielectric, Thermal and Mechanical Properties of ADP doped PVA Composites  
Jagadish Naik, **R. F. Bhajantri**, V. Ravindrachary, Sunil G. Rathod, T. Sheela, Ishwar Naik, 59<sup>th</sup> Solid State Physics Symposium Sponsored by DAE-BRNS, Mumbai, held at VIT University, Vellore (T.N) during December 16-20, 2014
- 44) Influence of Graphene Nanoparticles on Optical and Dielectric Properties of PVA/PEDOT: PSS Blend Composite  
Vidyashree Hebbar, **R. F. Bhajantri**, Jagadish Naik  
61<sup>st</sup> DAE Solid State Physics Symposium held at KIIT University, Bhubaneswar, Odisha during 26<sup>th</sup> -30<sup>th</sup> December 2016.
- 45) Effect of Al<sub>2</sub>O<sub>3</sub> on Dielectric Behavior of LiClO<sub>4</sub>/PVA Polymer Electrolytes  
Jagadish Naik, **R. F. Bhajantri**, Vidyashree Hebbar  
61<sup>st</sup> DAE Solid State Physics Symposium held at KIIT University, Bhubaneswar, Odisha during 26<sup>th</sup> -30<sup>th</sup> December 2016.
- 46) Recent Trends in Multifunctional Polymer Nanocomposites  
Jagadish Naik, **R.F. Bhajantri**, Vidyashree Hebbar, Madhavi Nandhimath, Mallikarjun H. Anandhalli, Kanakaraj T. M.  
One day National Seminar on Multidisciplinary Topics including Science held at Govt First Grade College, Rajnagar, Hubli on 10<sup>th</sup> March 2017
- 47) Conductivity studies of thermally stabilized RuO<sub>2</sub>/Polythiophene nanocomposites,  
Vidyashree Hebbar, **R. F. Bhajantri**  
62<sup>nd</sup> DAE-Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Anushaktinagar, Mumbai, during December 26 – 30, 2017
- 48) Modification of fluorescence and optical properties of Rhodamine B dye doped PVA/Chitosan polymer blend films  
R. Padmakumari, V. Ravindrachary, B. K. Mahantesha, Rohan N. Sagar, R. Sahanakumari, and **R. F. Bhajantri**  
62<sup>nd</sup> DAE-Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Anushaktinagar, Mumbai, during December 26 – 30, 2017

- 49) Inhibition and quenching effect on positronium formation in metal salt doped polymer blend  
S. D. Praveena, V. Ravindrachary, Ismayil, **R. F. Bhajantri**, A. Harisha, B. Guruswamy, Shreedatta Hegde, and Rohan N. Sagar  
62<sup>nd</sup> DAE-Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Anushaktinagar, Mumbai during December 26 – 30, 2017
- 50) Conductivity study of thermally stabilized RuO<sub>2</sub>/polythiophene nanocomposites  
Vidyashree Hebbar, **R. F. Bhajantri**  
62<sup>nd</sup> DAE-Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Anushaktinagar, Mumbai, December 26 – 30, 2017
- 51) Mechanical and Thermal Studies of Brilliant Green Doped Poly (vinyl alcohol) Polymer Composite, Mallikarjun. H. Anandalli, **R. F. Bhajantri**, Sunil.Rathod, Kanakaraj. T.M, Chetan Chavan, Shivaprasad Chalawadi.  
63<sup>rd</sup> DAE-Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, during December 18-22, 2018
- 52) Effect of temperature on transport properties of zinc based solid polymer electrolytes.  
Jagadish Naik, Vinayak Naik, Madavi Nandimath, **R. F. Bhajantri**  
63<sup>rd</sup> DAE Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, during December 18-22, 2018
- 53) Impact of Coumarin on Optical, Structural and Thermal Properties of TiO<sub>2</sub>@ZnO core-shell filled PMMA matrix  
Madhavi Nandimath, **R. F. Bhajantri**, Jagadish Naik, Vidyashree Hebbar  
63<sup>rd</sup> DAE-Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, during December 18-22, 2018
- 54) Preparation and Characterization of LiClO<sub>4</sub> doped PVA/Cellulose Polymer nanocomposites for pressure sensitive and conductivity studies.  
Shivaprasad Chalawadi, **R. F. Bhajantri**, Sunil Rathod, Mallikarjun Anandalli and Vidyashree Hebbar. Presented in Kannada Science and Technology Conference on “Research in Science and Technology: Contribution of Karnataka” Organized by Dharwad Regional Science Centre and Karnataka Science and Technology Academy held at Karnatak University, Dharwad during 23 and 24 November 2018.
- 55) Synthesis and Characterization of ZnO Nanoparticles  
Chetan Chavan, R. F. Bhajantri, Soumya S Bulla,  
Presented in One-day National level conference on Advances in Nano-Electronics and Material Science, P.C. Jabin Science College, Hubli on 12<sup>th</sup> March 2019
- 56) Study of Optical Properties of Methyl Red Doped PMMA Before and After Neutron Irradiation, Soumya bulla, R F Bhajantri, Chetan Chavan  
Presented in One-day national level conference on Advances in Nano-Electronics and Material Science, P.C. Jabin Science College, Hubballi on 12<sup>th</sup> March 2019.