



Dr. Balaji Biradar

M.Sc., Ph.D.

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Educational Qualification

Qualification	University	Year	Percentage
Masters in Science (M.Sc. Physics)	Gulbarga University Gulbarga	April 2009	70.66 %
Doctoral Research Thesis Title: "Study on the electron irradiated ferroelectric ZnO: Li thin films"	Gulbarga University Gulbarga	2015	N.A.

Awards, Fellowships & Teaching Experience

- ✚ **Assistant Professor,**
Sharnbasveshwar College of Science, Kalaburagi
— **Joined on 13 July 2025**
Currently working
- ✚ **Assistant Professor,**
Channabasaveshwar Gurukul Science Degree College, Talwad (K), Bhalki
— 16 December 2019 to 30 October 2024
- ✚ **Lecturer,**
B.V.B. College, Bidar
— 01 December 2016 to 31 October 2019
- ✚ **Post-Doctoral Fellow,**
School of Chemistry, Central University of Hyderabad, Hyderabad
— 01 April 2018 to 30 June 2018
- ✚ **Post-Doctoral Fellow,**
Materials Research Centre, Indian Institute of Science (IISc), Bangalore
— Under the guidance of Prof. S. B. Krupanidhi
— 02 March 2015 to 31 December 2015
- ✚ **Senior Research Fellow (SRF),**
BRNS-Funded Project
— 09 December 2011 to 31 March 2013
- ✚ **Junior Research Fellow (JRF),**
Board of Research in Nuclear Sciences (BRNS)-Funded Project
— 09 December 2009 to 08 September 2011

LIST OF PUBLICATIONS

- 1) **Prabhakar Chavan, Prashant C. Hanamshetty, Balaji Biradar, Nagabhushan M. M., Usharani, Parameshwara Naik P**
"An efficient and green approach: One-pot, multi-component, reusable catalyzed synthesis of pyranopyrazoles and investigation of biological assays"
Russian Journal of Organic Chemistry, 61(1), pp. 171–176.

[Link not available]

- 2) **Prabhakar Chavan**, Prashant C. Hanamshetty, **Balaji Biradar**, Nagabhushan M. M.
“**Design and synthesis of novel series of 1,4-dihydropyridine derivatives as antioxidant and antimicrobial agents**”
Russian Journal of Organic Chemistry, 60(5), pp. 912–917.
[Link not available]
- 3) Usharani, Prashant C. Hanamshetty, **Balaji Biradar**, Prabhakar W. Chavan
“**Synthesis and spectroscopic characterization of indolyl-1,8-naphthyridin-3-carbonitriles moieties**”
IJFANS: International Journal of Food and Nutritional Sciences, 11(12), pp. 8743–8749.
UGC CARE Listed | ISSN: 2319-1775 (Print), 2320-7876 (Online)
[Link not available]
- 4) M. Devendrappa, **B. Biradar**, S. Amabalagi, B. Sannakki
“**Gamma irradiation study of PMMA thin films**”
Recent Advances in Materials Science and Biophysics, 56.
[Link not available]
- 5) J. Parui, B. Murali, **B. Biradar**, S. B. Krupanidhi
“**Oxygen deficiency induced nickel-based oxides for UV & IR sensitive photo-conductive devices**”
Materials Research Bulletin, 107, pp. 321–327.
[Link not available]
- 6) M. Pattar, Soumya, B. R. Kerur, **B. Biradar**, S. Amabalagi
“**Elemental profile of herb and medicinal plant using spectro-analytical AAS technique**”
AIP Conference Proceedings, 2100(1), 020164.
[Link not available]
- 7) M. Devendrappa, **B. Biradar**, S. Amabalagi, M. Pattar, B. Sannakki
“**Energy loss and dielectric properties of γ -irradiated PMMA thin film**”
AIP Conference Proceedings, 2100(1), 020101.
[Link not available]
- 8) S. Amabalagi, M. Devendrappa, **B. Biradar**, Bharati, M. Pattar, B. Sannakki
“**DC conductivity of γ -irradiated CuO-doped PANI nanocomposites**”
AIP Conference Proceedings, 2100(1), 020102.
[Link not available]
- 9) Manjunath, A. Ashwini, M. Devendrappa, **B. Biradar**, M. Pattar, B. R. Kerur
“**Qualitative analysis of pharmaceutical drugs by X-ray transmission method: A non-destructive technique**”
AIP Conference Proceedings, 2100(2).
[Link not available]
- 10) **Balaji Biradar**, V. M. Jali, Murali Banavoth, S. B. Krupanidhi
“**AC conductivity study of electron irradiated ZnO:Li thin films**”
International Journal of Engineering Research and Technology (IJERT), 3(10), pp. 565–566.
[Link not available]
- 11) **Balaji Biradar**, V. M. Jali, Murali B., S. B. Krupanidhi, Ganesh Sanjeev
“**Electrical and optical properties of electron irradiated ZnO:Li thin films**”
Advanced Materials Research, 699, pp. 257–261.
[Link not available]
- 12) **Balaji Biradar**, Murali Banavoth, V. M. Jali, S. B. Krupanidhi
“**Photoluminescence of electron irradiated Li:ZnO thin films**”
[Journal name missing], 5(1), pp. 13–21.
[Link not available]

Papers Presented at National /Internationals Conferences

- [1] Electrical and optical properties of electron irradiated ZnO: Li thin films, **Balaji Biradar**, V M Jali, Murali B, S B Krupanidhi and Ganesh Sanjeev, International Conference on Materials Science and Chemical Engineering (MSCE-2013), February 20- 21, **2013**, Singapore.
- [2] Ferroelectric hysteresis behavior of electron irradiated ZnO: Li thin films, **Balaji Biradar**, V M Jali, Banavoth Murali, S B Krupanidhi and Ganesh Sanjeev, National Conference on Recent Trends & Technology of Nano Materials & Smart Devices (RTT-NSD-2013), April 18-20, **2013**, Solapur University, Solapur (M.S), India (*Oral Presentation*).
- [3] Dielectric properties of electron irradiated ZnO: Li thin films, **Balaji Biradar**, V M Jali, Banavoth Murali, S B Krupanidhi and Ganesh Sanjeev, BRNS THEME MEETING on Utilization of Accelerators at Electron Beam Centre, June 6, **2013**, Electron Beam Centre, BARC, Navi Mumbai – 400614, India (*Oral Presentation*).
- [4] Impedance studies on electron irradiated ZnO: Li thin films **Balaji Biradar**, V M Jali, Banavoth Murali, S B Krupanidhi and Ganesh Sanjeev International Union of Materials Research Society, Materials Research Society of India International Conference in Asia – **2013** (IUMRS –ICA 2013) Dec 16-20, 2013, Indian Institute of Science, Bangalore – 560012, India (*Oral Presentation*)
- [5] AC Conductivity Studies of Electron Irradiated Li: ZnO Thin Films, **Balaji Biradar**, V M Jali, Banavoth Murali, S B Krupanidhi and Ganesh Sanjeev 25th Annual General Meeting of Materials Research Society of India, Feb 12-14, **2014**, Indian Institute of Science, Bangalore – 560012, India (*Poster Presentation*)

Conferences/Symposia attended

- [1] DAE-BRNS 6th National Symposium on Pulsed Laser Deposition of Thin films and Nano structured materials (PLD-2011), November 09-11, 2011 Materials Research Centre, Indian Institute of Science of Bengaluru, India.
- [2] Microtron Advisory Committee (MAC M) Meeting, April 02, 2011, Microtron Centre Mangalore, University, Mangalore, India.
- [3] National seminar on Radiation Physics, March 17-18, 2011, Department of Physics Gulbarga University, Gulbarga, India.
- [4] Microtron Advisory Committee (MAC) Meeting, April 07-08, 2010, Microtron Centre Mangalore University, Mangalore, India.
- [5] One day National Seminar on “Impact of IT on Formal Education: A Retrospective Approach”. February 19, 2011, Dayanand Science College, Latur, India.
- [6] One day Acquaintance programme of IUAC, August 24, 2010, Department of Physics University of Mysore, Manasgangotri, Mysore, India.
- [7] National Seminar on X-Ray Techniques, March 2-3, 2011 Department of Physics Gulbarga University, Gulbarga, India.

Declaration: I hereby declare that to the best of my knowledge and belief, the particulars given above are true.

