

# Resume

**Dr. Pushpa N, M.Sc (Physics)., Ph.D**

W/o Kishore V R

# 3-142, Ward No. 26

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## Objective

To obtain a long-term career and actively contribute to the development and growth of the institution that provides a good opportunity for enhancement of professional and personal status.

## **Skills and Abilities**

- Ability to analyze problems/issues.
- Fast Learner, willing to shoulder challenges and responsibilities.

## Education Qualification

Course	Subject	College/ Institution	University	Year
Ph.D	Thermo luminescence and Photoluminescence studies of pure and doped Zinc Oxide nanophosphors	Department of Physics, Jnanabharathi, Bangalore University, Bangalore	Bangalore University	2017
M.Sc	Physics	Department of Physics, Jnanabharathi, Bangalore University, Bangalore	Bangalore University	2011
B.Sc	PCM	Government College for Women, Chintamani	Bangalore University	2009
PUC	PCMB	Government PU College for Girls, Chintamani	PU Board Karnataka	2006
SSLC	Karnataka state	Sri Sharada Girls High School, Sidlaghatta	SSLC Board	2004

## **Training Courses Completed:**

1. Completed training Course on **Advanced Training in Computer Application** during 25-04-2007 to 10-07-2008 with **A Grade (1 Year 3 months Course)**.
2. **Master Facilitator in Leadership and HRD (FC in HRD 128)** CLHRD Mangalore during 13 May through 22 May 2024, Training cost is sanctioned by SJCIT.
3. **Certified UHV –I Inculcating Universal Human Values** in Higher Education Conducted by AICTE during 02-06 November 2020.

### Handled Instruments

Ø X-ray diffractometer      Ø FTIR  
 Ø UV visible                      Ø Raman spectrometer  
 Ø Thermoluminescence (TL) Reader      Ø Photoluminescence [PL]

### Teaching Experience and Research Experience

1. **Teaching Undergraduate program from past 13 years**  
(Since from July 2011)
2. **Involved in Research from 2012.**

#### Details of Research Guidance:

<b>No of Students Registered For Ph.D</b>	<b>3</b>
1. Manjunatha B C	Ph.D awarded (Viva Voce conducted 19 <sup>th</sup> October 2023)
2. Archana B S	Course Work Completed (1SJ20PPY01)
3. Mamatha S K	Registered in 2024.

### Work Summary

Course	College	Year	Designation
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<b>BE</b>	<b>S J C Institute of Technology, Chickballapur</b>	Since from October 16 <sup>th</sup> 2019	Asst. Professor
<b>B.E</b>	<b>Nagarjuna College of Engineering and Technology. Bangalore</b>	17 <sup>th</sup> July 2017-14 <sup>th</sup> October 2019	Associate Professor (From 1.03.2018) Asst. Prof (17.07.2017-28.02.2018)
<b>B.Tech</b>	<b>PESIT/PES University, Hosakerehalli Cross, Bangalore</b>	Jan2015- July 2017	Asst. Professor
<b>B.E</b>	<b>UVCE, Bangalore</b>	Jan 2012- Dec 2014	Asst. Professor
<b>B.Sc and PUC</b>	<b>Govt.First Grade College, Chickballapur Vivekananda PU College, Chintamani</b>	July -Dec 2011	Asst. Professor

**Areas of Specialization:** - Condensed Matter Physics

**Major Field of Research interest:** - Material Science

### **Professional Memberships**

1. Luminescence Society of India Karnataka Chapter.
2. Kannada Sahitya Parishattu, Chamarajapete, Bangalore.
3. Member for Vokkaliga Sanga : Membership No.26383

### **Awards**

1. **Best Poster award** for the research paper presented at International Conference International Union of Material research Societies-International

Conference in Asia- 2013 (IUMRS-ICA- 2013), held at Indian Institute of Science, Bangalore, India during 16-20, December 2013.

2. **Best Poster award** for the research paper presented at International conference on nano science and Engineering Applications (ICONSEA), held at Jawaharlal Nehru Technological University, Hyderabad during 26-29, June 2014.
3. **Best paper presentation** for the research paper presented at 22<sup>nd</sup> State level faculty convention held at SJC Institute of Technology on 4<sup>th</sup> February 2020. Institute of Technology on 4<sup>th</sup> February 2020.
4. **Best paper presentation** for the research paper presented at National E-Conference on Recent Advances in Mechanical, Aeronautical, Aerospace Engineering & Basic Sciences organized by SJC Institute of Technology on 28 August 2021.
5. **Best paper presentation** for the research paper presented at Mantana – 2023 National Conference organized by SJC Institute of Technology on 24<sup>th</sup> May 2023.
6. **Best Teacher Award at** the Institution Level on Teacher's day 2023.
7. Received **Excellent Profile grade** on FEEL Participants Profile Cumulative assessment of Competencies Facilitators Training in HRD 17 May 2024 through 22 May 2024 CLHRD Mangalore.
8. Received **JRF and SRF Fellowship from DAE- BRNS Project 2012**.
9. **SSLC Topper** of the Sri Sharada Girls High School- 2004. Sidlaghatta.
10. **PCMB Topper** at Sri Government PU College for Girls- 2006, Chintamani.
11. **Topper in BSc [PCM]** Government College for Women-2009 Chnitamani.

## **Credentials/Talks**

1. Delivered a lecture on **Universal Human Values: AICTE (Basic Aspiration, Harmony in Family)** for e- Student Induction Program on 19<sup>th</sup> May 2021.
2. Delivered a lecture on **Universal Human Values Harmony in society** in Inhouse Lecture series 22<sup>nd</sup> June 2022.
3. Delivered a lecture on **Universal Human Values in SIP Student Induction Programme on 13<sup>th</sup> Sep 2023**.
4. Oral Speaker on Role of Solvent on Luminescence properties of Nanophosphors, **Pushpa N** and M K Kokila 1st International Conference on Spectroscopy in Materials Science (ICOSIMS-2023 virtual). 2023, Physics Department, University of Aveiro. Portugal during 20-22 June 2023.
5. Delivered a Lecture on **TIPS For Preparing acceptable papers in Q1/Q2/Q3 Journals** Inhouse Lecture series SJCIT 28<sup>th</sup> May 2024.

6. Oral Speaker on **Photo and Thermoluminescence of ZnO: Sm Nano Phosphors** in 2<sup>nd</sup> International Conference on Spectroscopy In Materials Science 5th to June 7th, 2024 Physics Department University of Aveiro. Portugal (Virtual).
7. **Invited as Resource person** from CLHRD for the training on FEEL Employable' learning and development intervention 13 through 15 June 2024 **at SIT, Tumkur.**
8. Delivered a lecture on **Quantum Mechanics for Engineers on 18<sup>th</sup> September 2024** in Student Induction Program 2024.
9. **Resource Person for Leadership Training Practical at BGS Polytechnic,** Chickballapur, May 2024 to 10 May 2024.
10. **Resource Person for "Managing Foreseeable Future"** training at Aditya College of Engineering and Technology, Bangalore on 18 August through 21 August 2024.

### **List of Publications: Refereed Journals**

1. Red luminescence from ZnO : Cr<sup>3+</sup> nanophosphors under visible excitation, **N. Pushpa**, M.K. Kokila, B.M. Nagabhushana, H. Nagabhushana, A. Jagannatha Reddy, Bulletin of Material Science 385 **(2015)** 1–7.
2. Luminescence studies of gamma irradiated ZnO nano crystals, **N. Pushpa**, M.K. Kokila, B.M. Nagabhushana, H. Nagabhushana. Advanced Science letters 21 **(2016)** 30–35.
3. Thermoluminescence studies of -irradiated ZnO: Mg<sup>2+</sup> nanoparticles. **N.Pushpa**, M.K. Kokila, K R Nagabhushana, Nuclear Instruments and Methods in Physics Research B 379 **(2016)** 62–68.
4. Luminescence properties of La<sub>2</sub>O<sub>3</sub> : Eu<sup>3+</sup> nanophosphor prepared by sol gel method. **N. Pushpa**, M.K.Kokila, N.J. Shivaramu, Nuclear Instruments and Methods in Physics Research B 379 **(2016)** 69–72.
5. Effect of cobalt doping on structural, thermo and photo luminescent properties of ZnO nanoparticles. **N. Pushpa** and M.K. Kokila, Journal of Luminescence 190 **(2017)** 100–107.
6. Red Luminescence from La<sub>2</sub>O<sub>3</sub>: Eu<sup>3+</sup> nanophosphor prepared by Sol-Gel method. **N Pushpa** , M K Kokila and K R Nagabushana Materials Letters: X, 2024.
7. Study of structural and magnetic features of aluminum substituted hexaferrites of calcium suitable for memory storage application. Manjunatha B C, **Pushpa N** and Puneeth Kumar P. Material Today Proceedings **89(2023)** 14-18

8. Synthesis and Characterization of Nano-Hexagonal Calcium Ferrites for Material Development. Manjunatha B C and **Pushpa N** Research Aspects in Chemical and Materials Science Vol. 5. HP International 2022.
9. Role of solvent on morphology and photoluminescence property of ZnO nano rods synthesized by hydrothermal method. **N Pushpa** and MK Kokila Materials Today: Proceedings (2024).
10. Luminescence studies of Manganese doped ZnO nano phosphor. " Recent advances in applied Chemistry RAAC-2015". **Pushpa.N**, M.K. Kokila and K. R. Nagabhushana Page No. 67-70. ISBN No.978-93-85682-07-0.
11. Photo and Thermoluminescence of Samarium doped ZnO: Sm nano particles. N Pushpa and M K kokila Springer Proceedings 2024.

### **Papers presented in National and International Conferences**

1. Synthesis and Optical properties of ZnO:Mn nano phosphor by solution combustion synthesis. **N. Pushpa**, M. K. Kokila, B.M.Nagabhushana, H. Nagabhushana, A.Jagannatha Reddy, National conference on multifunctional engineering material (NCMEM), held at RV college of Engineering. Bangalore during 28-30 November 2013.
2. Hydrothermal synthesis and luminescence properties of ZnO nanophosphor. **N. Pushpa**, M. K. Kokila, B.M. Nagabhushana, H.Nagabhushana, A.Jagannatha Reddy, International Conference International Union of Material research Societies-International Conference in Asia- 2013 (IUMRS-ICA- 2013), held at Indian Institute of Science, Bangalore, India during 16-20, December 2013.
- Synthesis and Optical properties of ZnO: Ni nano particles by solution combustion method. **N. Pushpa**, M. K. Kokila, B.M. Nagabhushana, H. Nagabhushana, A.Jagannatha Reddy, International conference on nano science and Engineering Applications (ICONSEA), held at Jawaharlal Nehru Technological University, Hyderabad during 26-29, June 2014.
4. Photoluminescence studies of transition metal ion doped ZnO nano particles. **Pushpa N**, M. K. Kokila, B.M. Nagabhushana, H. Nagabhushana A. Jagannatha Reddy Winter School on Frontiers in Material Science, held at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore during 1-5, December 2014.
5. Luminescence Studies of gamma irradiated ZnO nano crystals, **N. Pushpa**, M. K. Kokila First International Conference on Emerging Materials: Characterization & Application (EMCA-2014), National Institute of Technology, Dugapur. CSIR – Central Glass & Ceramic Research Institute December 04-06, 2014, Kolkata.
6. Optical studies of Manganese doped ZnO nano phosphor. **Pushpa N**, M. K. Kokila, B.M. Nagabhushana, H. Nagabhushana, First

International Conference on Large Area Flexible Microelectronics (ILAFM) held at RV College of Engineering, Bangalore during 18-20, December 2014.

7. Synthesis and Studies of Ferrites, Multiferroics and ZnO doped with Conducting Polymeric Composites **N. Pushpa**, M. K. Kokila, Physika held at Bangalore University 20<sup>th</sup> August 2014.
8. XRD and Photoluminescence studies of Cobalt doped ZnO nano particles, **N. Pushpa**, M. K. Kokila, Two Day workshop on Crystallography in the Sciences on October 16<sup>th</sup> and 17<sup>th</sup> 2014, Bangalore University, Bangalore.
9. Luminescence studies of Samarium doped ZnO nano particles. **N. Pushpa**, M. K. Kokila, B.M.Nagabhushana, H. Nagabhushana, A Jagannatha Reddy, International Conference on Luminescence and its applications-2015 (ICLA-2015) held at PES University, Bangalore during 9-12, February 2015.
10. Thermo luminescence studies of  $\gamma$ -irradiated ZnO: Mg<sup>2+</sup> nano particles **N. Pushpa**, M.K. Kokila and K.R. Nagabhushana, International Conference on Radiation Effects in Insulators (REI-18) organized by IUAC, NewDelhi, held at Jaipur during 26-31, October 2015.
11. Luminescence properties of La<sub>2</sub>O<sub>3</sub>: Eu<sup>3+</sup> nanophosphor prepared by sol gel method. **N. Pushpa**, M.K.Kokila and N.J. Shivaramu, International Conference on Radiation Effects in Insulators (REI-18) organized by IUAC, NewDelhi, held at Jaipur during 26-31, October 2015.
12. Luminescence studies of Manganese doped ZnO nano phosphor. **N. Pushpa**, M.K. Kokila and K.R. Nagabhushana, National conference on Recent advances in applied Chemistry (RAAC) held at Dayananda Sagar University, Bangalore during 17<sup>th</sup> December 2015. Role of solvent on morphology and photoluminescence properties of ZnO nanopartiles prepared by hydrothermal method.
13. Effect of Cobalt doping on Structural and luminescence properties of ZnO nanoparticles. **N. Pushpa**, M. K. Kokila. CEMAT-2016 organized by Indian Institute of Science, Bangalore during 18-19 July 2016.
14. Effect of fuel on structural and luminescence properties of combustion synthesized ZnO nanoparticles. **N. Pushpa**, M. K. Kokila, International Union of Materials Research Society of India-International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM 2016) held on December 11-15, 2016 at Indian Institute of Science, Bangalore
15. Role of solvent on morphology and photoluminescence properties of ZnO nanopartiles prepared by hydrothermal method **N. Pushpa**, M. K. Kokila and B M Nagabhushana, National conference on Recent trends in Material Science and Environmental Issues (NCRTMSE-17) held at SJBIT, Bangalore on 10<sup>th</sup> May 2017.
16. Role of solvent on luminescence properties ZnO nano phosphor **N. Pushpa** and M. K. Kokila, 22<sup>nd</sup> State level faculty convention held at SJC Institute of Technology on 4<sup>th</sup> February 2020.

17. Photoluminescence study of  $\text{La}_2\text{O}_3:\text{Eu}^{3+}$  nanophosphor prepared by Sol-gel method **N. Pushpa** and M. K. Kokila, National E- Conference on Recent Advances in Mechanical, Aeronautical, Aerospace Engineering & Basic Sciences organized by SJC Institute of Technology on 28 August 2021.
18. Photoluminescence and thermoluminescence studies of Al-ZnO nanophosphor, **Pushpa N** and M K Kokila Mantana – 2023 National Conference organized by SJC Institute of Technology on 24<sup>th</sup> May 2023.
19. Effect of Aluminium on Thermoluminescence of ZnO nano phosphor **Pushpa N** , 2<sup>nd</sup> International Conference on Emerging Trends in Engineering & Applied Sciences organized by SJCIT on 18<sup>th</sup> September 2024.

### **FDPS/ Refresher Course attended**

1. FDP on **Materials Science: Synthesis and Characterization organized by Department of Physics**, Institute of Science Shri Vaishnav Vidyapeeth Vishwavidyalaya, Ujjain Road, Indore during 11-15 May 2020 (Online mode).
2. National Level FDP/SDP on **“Recent Developments in Material Science and Radiation Technology”** organized by Department of Physics, Vidyavardhaka College of Engineering, Mysuru during 10-14 July 2020 (Online mode).
3. FDP On **“Recent Trends in Technology and Teaching Learning Methodology”** in association with Indian Society for Technical Education (ISTE) organized by Sage University ,Indore on 9-11 July 2020 (Online mode).
4. International Faculty Development Programme on **“Advanced Materials & Mathematical Tools”** from organised by First Year Engineering Department of GWCET, Nagpur 10-14 July 2020 (Online mode).
5. **“Inculcating Universal Human Values in Technical Education”** organized by AICTE during 2-6 November, 2020.
6. **Faculty Development Program on Engineering Statistics and Linear Algebra** organized by Department of E&C. S J C Institute of Technology during 15-17 April 2021.
7. **Incorporating Universal Human Values in Education Conducted by AICTE** during 17-21 May 2021 Conducted by AICTE (Online mode).
8. **Inculcating Universal Human Values in Technical Education organized by HKBK College** of engineering. Bangalore during 9 -13 May 2022.
9. **FDP on Physics of Quantum Computation and Animation** organized by BIT, Bangalore during 2-4 February 2023.



10. **Five days Online FDP on Applied Physics in VTU Curriculum.** Organized by CBIT, Bangalore during 15-19 April 2023.
11. **National One Week Faculty Development Programme on ICT Tools for Effective Teaching and Learning,** organized by Kamla Nehru Mahavidyalaya, Nagpur during 29 May – 3<sup>rd</sup> June 2023.
12. **FEEL Teacher – Facilitating Effectiveness and Excellence in Leadership** for teachers organized by SJCIT during 25-27 June 2023.
13. **National One Week Faculty Development Programme on Research Methodology, FDP-2023**” organized by Kamla Nehru Mahavidyalaya, Nagpur during 24-29 June 2023.
14. Six-Day Faculty Development Program (FDP) on “Advanced Materials Processing and Characterization Techniques” from 16<sup>th</sup> to 21<sup>st</sup> December 2024 organized by SJCIT.

#### **Workshops/ Seminars/ Conferences attended**

1. National conference on "Recent advances in Material Science" and also presented a paper, held at MSRIT Bangalore during 12-14 December 2011.
2. National Conference on Recent Advances in Functionalized Materials 24-25 January 2012, MSRIT, Bangalore.
3. Two day workshop on Food Adulteration and Safety Measures (FASM-2013) held on February 2-5, 2013 at MSRIT, Bangalore.
4. Workshop on "Advances in Atmospheric and Space Science (AASS-2013)" 7-9.March 2013 organized by the Sir MV-ISRO Chair and Dept of Physics, Bangalore University.
5. Workshop on "Nonlinear and applied Optics" organized by the Dept of Physics, MSRIT, 2-3 August 2013.
6. Workshop on "Science of Climate Change-Indian Scenario (SCC-IS 2013)", KLE College Bangalore, 23-24 August 2013.
7. National Conference on "Cell Mechanics and Interactions at the Physics Biology Interface" held on August 30th and 31st 2013 Dept. of Physics, Bangalore University Bangalore.
8. Three day lecture series on Frontier Areas of Research during 26-28, September 2013, Bangalore University Bangalore.
9. National workshop on Luminescence materials devices and applications (NWLMDA2013) 22-23 Nov. 2013 Dept of Physics, Bangalore University, Bangalore.
10. Winter School -2013 on Frontiers of Materials Science organized by International centre for Materials Science 2-6 Dec 2013, JNCASR Bangalore.

11. One day workshop on Tips to Research Scholars on 20th July 2014 held at MSRIT, Bangalore.
12. Two Day workshop on Crystallography in the Sciences on October 16th and 17th 2014, Bangalore University, Bangalore.
13. National workshop on Advances in Lithium ion batteries (ALBM-2015) on 28th December 2015 held at PES University, Bangalore.
14. 2-Day meet on "Teaching of the Sciences in higher education" held on 27th and 28th May 2016 at Bangalore University, Bangalore.
15. Thermo luminescence and its applications organized by Department of Physics, BMS Institute of Technology and Management, Bangalore on 8th May 2020 (Online mode).
16. Online International Conference on Advanced materials: Smart Future organized by Sri Santh Gadge Mahavidyala, Nagpur dist on 11th July 2020.
17. International Virtual Conference on Advanced Materials IVCAM 2020 K. L. E. Society's Basavaprabhu Kore Arts, Science and Commerce College Chikodi on 21st July 2020.
18. Turnitin Online In Campus User Awareness Program on Academic Integrity organized by S J C Institute of Technology on 13 Aug 2020(Online mode).
19. Webinar on Life Style management and wellness during Covid-19 organized by Rotary Club BGS on 11th May 2021 (Online mode)
20. Webinar on Advanced hollow fiber membranes for Arsenic Removal from Drinking water organized by Department of Chemistry, S J C Institute of Technology on 17th May 2021 (Online mode).
21. Webinar on Intellectual Property rights and Ip management for Startup. Organized by Department of E&C. S J C Institute of Technology on 17th May 2021 (Online mode).
22. Soft skills training program for Faculty organized by Department of E&C. S J C Institute of Technology on 20th May 2021 (Online mode).
23. Intellectual Property Rights in Research and Innovation organized, S J C Institute of Technology on 27th May 2021(Online mode)
24. Vichara Sankirana Buddha Chintaneya Swaroopa organized by Sri Adichunchanagiri Trust On 12.06.2021 (Online mode).
25. 7th International Yoga Day, Organized by Sports Department, S J C Institute of Technology on 21st June 2021 (Online mode).
26. Yoga practice and meditation program Yoga: wellness for all, Organized by Department of Physics, S J C Institute of Technology on 21st June 2021 (Online mode).
27. NDLI User awareness Programme, organized SJCIT on 25th May. 2022

28. Nanomaterials for Engineering applications, organized by Dept of Chemistry, SJCIT, Chickballapur on 23<sup>rd</sup> August 2022.
29. World Entrepreneurs Day, organized by IIC , SJCIT on 23<sup>rd</sup> August 2022.
30. Participated in IEEE - EBSCO Knowledge Feast 2024, on 23<sup>rd</sup> April 2024 held at Shangri-La, Bangalore.

## **References**

### **Dr. M. K. Kokila**

Professor and Chairperson  
Department Of Physics,  
Bangalore University, Bangalore  
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## **Personal profile**

Husband's Name:	Kishore V R
Gender	Female
Date of Birth:	30.08.1988
Nationality:	Indian
Marital Status	Married
Languages known to speak:	Kannada, English, Telugu.
Languages known to read and write:	Kannada, English
Address:	Karkhanepete Chickballapur, Pin:562101

I hereby declare that the above mentioned details are true as best of my knowledge and belief.

(PUSHPA N)