**Curriculum vitae**

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

W/o Kishore V R

# 3-142, Ward No. 26

Karkhanepete, Chickballapur

Email: pushpajvs@gmail.com

Ph.No 9071949499

**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**

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| **Course** | **Subject** | **College/****Institution** | **University** | **Year** | **Result** |
| Ph.D | Thermo luminescence and Photoluminescence studies of pure and doped Zinc Oxide nanophosphors | Department of Physics,Jnanabharathi, Bangalore University, Bangalore | Bangalore University | **2017** | **Degree awarded** |
| M.Sc | Physics | Department of Physics,Jnanabharathi, Bangalore University,  Bangalore | Bangalore University | **2011** | **69.4%** |
| B.Sc | PCM | Government College for Women, Chintamani | Bangalore University | **2009** | **86.20%   (PCM)****Physics: 88.37%** |
| PUC | PCMB | Government PU College for Girls, Chintamani | PU Board Karnataka | **2006** | **80.66%** |
| SSLC | Karnataka state | Sri Sharada Girls High School, Sidlaghatta | SSLC Board | **2004** | **82.72%** |

**Training Courses Completed:** Completed training Course on **Advanced Training in Computer Application** during 25-04-2007 to 10-07-2008 with **A Grade.**

**Research Experience**

* I worked as a J.R.F and S.R.F under the project sanctioned by the Department of Atomic Energy (BRNS, Mumbai) on "Development of nano structural pure and doped ZnO for efficient display and dosimetry applications".
* Five years research experience in my PhD work under the guidance of Prof. M.K.Kokila, Department of Physics, Bangalore University, Bangalore - 560056.

**Handling instruments**

Ø X-ray diffractometer Ø FTIR

Ø UV visible Ø Raman spectrometer

Ø Thermoluminescence (TL) Reader Ø Photoluminescence [PL]

**Teaching Experience**

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

**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.

**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 22nd State level faculty convention held at SJC Institute of Technology on 4th February 2020.Institute of Technology on 4th 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.

**Credentials**

1. Delivered a lecture on **Universal Human Values: AICTE (Basic Aspiration, Harmony in Family**) for e- Student Induction Program on 19th May 2021.
2. Department Coordinator for National E- Conference on Recent Advances in Mechanical, Aeronautical, Aerospace Engineering &
 BasicSciences organized by Mechanical Aerospace, Basic Science, Aerospace Engineering Departments, SJC Institute of Technology on 28 August 2021.
3. Delivered a lecture on **Universal Human Values: AICTE** for Student Induction Program on 22nd December 2021.

**List of Publications: Refereed Journals**

1. Red luminescence from ZnO : Cr3+ 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: Mg2+ 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 2O 3 : Eu3 + 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.

**Proceedings**

1. Luminescence studies of Manganese doped ZnO nano phosphor. "

 Recent advances in applied Chemistry RAAC-2015". **Pushpa.N**, M.K. Kokila and
 K. R. Nagabushana Page No. 67-70.ISBN No.978-93-85682-07-0.

**Papers presented in National and International Conferences**

1. Synthesis and Optical properties of ZnO:Mn nano phosphor by solution combustio 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

1. 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.
2. Photoluminescence studies of transition metal ion dope d ZnO nano particles. **Pushpa N,** M. K. Kokila, B.M. Nagabhushana, H. Nagabhushana A. JagannathaReddy Winter School on Frontiers in Material Science, held at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore during 1-5, December 2014.
3. 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 InstituteDecember 04-06, 2014, Kolkata.
4. 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.
5. 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.
6. Thermo luminescence studies of γ-irradiated ZnO: Mg2+ nano particles
**N. Pushpa**, M.K. Kokilaand K.R. Nagabhushana, International Conference on Radiation Effects in Insulators (REI-18) organized by IUAC, NewDelhi, held at Jaipur during 26-31, October 2015.
7. Luminescence properties of La2O3 : Eu3+ 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.
8. Luminescence studies of Manganese doped ZnO nano phosphor.**N. Pushpa**, M.K. Kokilaand K.R. Nagabhushana, National conference on Recent advances in applied Chemistry (RAAC) held at Dayananda Sagar University, Bangalore during 17th December 2015.Role of solvent on morphology and photoluminescence properties of ZnO nanopartiles prepared by hydrothermal method.
9. 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.
10. 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
11. **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 10th May 2017.
12. Role of solvent on luminescence properties ZnO nano phosphor **N. Pushpa** and M. K. Kokila, 22nd State level faculty convention held at SJC Institute of Technology on 4th February 2020.
13. Photoluminescence study of La2O3: Eu3+ 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.

**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 11-16
April 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 9-11July
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.

**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’sBasavaprabhu 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. Incorporating Universal Human Values in Education Conducted by AICTE during 17-21 May 2021 (Online mode).
20. Webinar on Life Style management and wellness during Covid-19 organized by Rotary Club BGS on 11th May 2021 (Online mode)
21. Webinar on Advanced hallow 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).
22. 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).
23. Soft skills training program for Faculty organized by Department of E&C.
 S J C Institute of Technology on 20th May 2021 (Online mode).
24. Intellectual Property Rights in In Research and Innovation organized,
S J C Institute of Technology on 27th May 2021(Online mode)
25. Vichara Sankirana Budda Chintaneya Swaroopa organized by Sri Adichunchanagiri Trust On 12.06.2021 (Online mode).
26. 7th International Yoga Day, Organized by Sports Department,
 S J C Institute of Technology on 21st June 2021 (Online mode).
27. 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).

**References**

**Dr. M. K. Kokila**

Professor

Department Of Physics,

Bangalore University, Bangalore

Ph.No: 9845625924, Email: drmkkokila@gmail.com

**Dr. A. Jagannatha Reddy**

HOD/Professor

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Ph.No: 9886537250, Email: ajreddy09@gmail.com

**Dr. K R Nagabushana**

Professor

Department of Physics

University Federal Sao Paulo, Brazil

Ph.No: 5511933196938, Email: bhushankr@gmail.com

**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: | KarkhanepeteChickballapur, Pin:562101 |

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

(PUSHPA N)