

Curriculum vitae

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

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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	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%

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

Course	College	Year	Designation
BE	S J C Institute of Technology, Chickballapur	Since from October 16 th 2019	Asst. Professor
B.E	Nagarjuna College of Engineering and Technology. Bangalore	Since from July 2017	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

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 La₂O₃: 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.

Awards

1. **Best Poster award** for the research paper present 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 present 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 Award** in the 22nd State level faculty convention held at SJC Institute of Technology on 4th February 2020.

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.
3. 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.
5. 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.
6. 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.
7. Optical studies of Manganese doped ZnO nano phosphor. **Pushpa N**, M. K. Kokila, B.M. Nagabhushana, H. Nagabhushana,
8. First International Conference on Large Area Flexible Microelectronics (ILAFM) held at RV College of Engineering, Bangalore during 18-20, December 2014.
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 γ -irradiated ZnO: Mg²⁺ nano particles **N. Pushpa**, M.K. Kokila and K.R. Nagabhushana, International Conference on Radiation Effects in Insulators (REI-18) organized by IUAC, New Delhi, held at Jaipur during 26-31, October 2015.
11. 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, New Delhi, 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 17th December 2015. Role of solvent on morphology and

photoluminescence properties of ZnO nanoparticles 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. **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.
16. **N. Pushpa** and M. K. Kokila, Role of solvent on luminescence properties ZnO nano phosphor, 22nd State level faculty convention held at SJC Institute of Technology on 4th February 2020.

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.

References

Prof. M. K. Kokila

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

(PUSHPA N)