B. N. LAKSHMI NARASAPPA (Bandikar Narasimhappa Lakshminarasappa)

Field of research interest : **Condensed Matter Physics**– Luminescence (Thermo-, Photo-, Iono luminescence etc.), Color Centers, Defects studies in crystalline, nonmaterial and thin films of inorganic and oxides materials.

Academic qualification:

Degree	University	Year of Award	Subject	Class
M.Sc.	Sri Venkateshwara University, India	1976	Physics-Solid State Physics	First
PhD	Bangalore University, India	1990	Physics- Color centers studies in sodium bromide single crystals.	-
M.Ed.	University of Madras, India	1993	Methodology of Educational Research, Guidance and counseling.	Second

Research guidance/ supervision:

No. of PhDs awarded under my supervision **: 08**
No. of M. Phil degrees awarded under my guidance **: 06**
No. of Research Projects completed **: 04**

No. of Research Papers Published in referred International Journals including Conference Proceedings **: 185**

International Conferences and National Conferences attended

International Conferences **: 18**
National Conferences **: 35**
National Seminars & Symposia **: 05**
National Workshops **: 04**

Teaching and Research Experience with position:

Designation / Position held	University	Period	Subjects taught & Research
Visiting Professor	RGUKT,IIIT, RK Valley	27.08.2014 – Till date	Engg Physics and Research
Professor	Bangalore University	24.12.2009 – 02.06.2014	Physics for P.G course & Engg Physics and Research
Associate Professor	Bangalore University	21.03.2006 – 23.12.2009	Physics for P.G course & Engg Physics and Research
Reader	Bangalore University	21.03.2003 – 20.03.2006	Physics for P.G course & Engg Physics and Research
Senior Lecturer	Bangalore University	21.03.1998 – 20.03.2003	Physics for P.G course & Engg Physics and Research
Lecturer	Bangalore University	21.03.1994 – 20.03.1998	Physics for P.G course & Engg. Physics and Research
Research Assistant	Bangalore University	12.07.1982 – 20.03.1994	Physics for P.G course & Engg Physics and Research
UGC Senior Research Fellow	Bangalore University	16.12.1980 – 12.07.1982	Engg Physics and Research
UGC Junior Research Fellow	Bangalore University	16.12.1978 – 15.12.1980	Research

Examination Assignments:

	Nature of duties	University/ Subjects
i.	Chairman, BOE for Engg Physics	Bangalore University, Bangalore, India.
ii.	Member BOE in Physics (P.G. and U. G) for:	Bangalore University, Sri Krishnadevaraya University, Kuvempu University & Mangalore University, India**.**
iii.	Paper setter	M.Sc. Physics and B.E. Engineering Physics.
iv.	Valuer	M.Sc. Physics and B.E. Engineering Physics.
v.	Tabulator	M.Sc. Science

Conferences / Seminars / Symposia/ Workshops etc, Organized:

1. National Conference on Luminescence and its Applications (NCLA 2005) - Organized by the Department of Physics, Bangalore University and Luminescence Society of India; Jnana Jyothi Convention Centre, Central College Campus, Bangalore, India: February 2-4, 2005 – **Convener**.
2. **National workshop on Luminescence materials Devices and Applications (NWLMDA 2013)** Organized by the Department of Physics, Bangalore University and Luminescence Society of India, Prof. Venkatagiri Gowda Auditorium, Jnanabharathi Campus, India: November 22-23, 2013 – **Convener.**
3. **Executive committee member** of Luminescence Society of India for the period 2012-2014.
4. Served as organizing committee member for various National and International conferences organized by different universities and institutions in India.

Research guidance:

i) **PhDs** awarded for 8 students on the following topics:

S. No.	Title of the Ph.D. Thesis	Year of Award
1.	Synthesis, characterization and luminescence studies of rare earth doped yttrium oxide nanophosphors.	May 2016
2.	Thermoluminescence and Photoluminescence Studies of Solution Grown Pure and Rare Earth Doped Sodium Sulphate.	April 2014
3.	Luminescence studies of combustion synthesized pure and rare earth doped yttrium oxide nano and thin film phosphors.	July 2014
4.	Spectroscopic studies of combustion synthesized swift heavy ion irradiated forsterite.	April 2012
5.	Color centers and thermoluminesce studies in pure and Magnisium, Strontium and Lanthanides doped Calcium fluorides.	April 2010
6.	Thermoluminescence and photo- luminescence studies in swift heavy ion irradiated nanocrystalline aluminum oxide.	February 2009
7.	Thermoluminescence studies in pure and La, Gd, and Cr doped dicalcium silicate nanophase systems.	April 2008
8.	Thermo stimulated luminescence studies in Aluminum Silicate polymorphs	November 2003

ii) M. Phil degrees awarded for 6 students on the following topics:

S. No.	Title of the Dissertation	Year of Award
1.	Synthesis characterization and luminescence studies in Mg_2SiO_4.	2007
2.	Luminescence studies in some in organic solids.	2007
3.	Color center and thermoluminescence studies in some gamma rayed samples.	1999
4.	Thermableaching studies of color centers in alkali halides.	1998
5.	Thermal bleaching studies of color centers in X-rayed alkali chloride single crystals.	1997
6.	Color center studies in potassium chloride and sodium chloride single crystals.	1996

Adjudicator/ Examiner of PhD Thesis Evaluation to the following Universities:

1. University of Madras, IGCAR, Kalpak am., India
2. Bharathiyar University, Coimbatore, India
3. Sri Krishanadevaraya University, Anantapur. India
4. Acharya Nagarjuna University, Nuzivid. India
5. Osmania University, Hyderabad. India
6. Podicherry University. India
7. Rani Durgavati Viswavidyalaya, India
8. M.S. University of Baroda, Vadodara

Research Projects completed:

S. No.	Title of the project	Funding agencies	Duration	Remarks
1.	Optical studies on insulators and minerals under swift heavy Ion irradiation	IUAC* New Delhi	3 years 2001-2004	Completed
2.	Synthesis and characterization of nano phase aluminum oxide under swift heavy Ion irradiation.	IUAC New Delhi	3years 2005-2008	Completed
3.	Spectroscopic studies of combustion synthesized SHI irradiated forsterite.	IUAC New Delhi	3years 2007-2010	Completed
4.	Ionoluminance studies in nanocrystalline oxides	IUAC New Delhi	3years 2010-2013	Completed

* IUAC- Inter University Accelerator Centre (formerly 'Nuclear Science Centre)

Reviewer for the following International Journals:

1. Nuclear Instruments and Methods in Physics Research B: Beam Interaction with Materials and atoms (Elsevier publications).
2. Journal of Alloys and Compounds (Elsevier publications).
3. Journal of Luminescence
4. Indian Journal of Pure and applied physics
5. Physics Letters
6. Materials Letters.

Membership of Professional Bodies / Societies:

1.	Indian Physics Association	Life Member
2.	Indian Solid State Ionics Society	Life Member
3.	Luminescence Society of India	Life Member
4.	Instrument Society of India	Life Member
5.	Materials Research Society of India	Life Member
6.	Indian Society for Radiation Physics	Life Member
7.	Nuclear Track Society of India	Life Member
8.	Youth Hostels Association of India.	Life Member

Administrative Experience:

As Visiting Professor (Physics) at RGUKT, IIIT R.K. Valley I have worked as:

- Dean, Students Welfare,
- Member-Disciplinary Committee,
- Chairman-Mess monitoring Committee,
- Member-Anti raging committee,
- Member-Academic Monitoring Team Committee,
- Member-Quarters Allotment Committee,
- Treasurer-Sree Mallelamma Temple Committee.
- Member of various convocation related committees of RGUKT besides other committees such as plantation & gardening, Students counselling etc

Academic visits to abroad:

Sl No	Place and Country	Year
1	University of Auckland, Auckland, New Zealand	December 2013
2	Busan, South Korea	August, 2012
3	Wollongong University, NSW, Sydney, Australia	September, 2010
4	China Normal University, Beijing, China	September, 2006
5	Osaka, Japan	August, 1999
6	Autonoma de Madrid, Madrid, Spain	September, 1986
7	University of Utah, Salt Lake City, USA	August, 1984

LIST OF PUBLICATIONS

Referred International journals:

2018

1. Photoluminescence, thermoluminescence and defect canters in Y2O3 and Y2O3:Tb3+ under 100 MeV swift Ni8+ ion beam irradiation; Materials Research Bulletin, Volume 102, June 2018, Pages 62-69; N.J. Shivaramu, B.N. Lakshminarasappa, Fouran Singh, E. Coetsee, H.C. Swart.

2. Correlation between thermoluminescence glow curve and emission spectra of gamma ray irradiated LaAlO3; AIP Conference Proceedings, Volume 1942 (1), April 2018, Pages 050135, NJ Shivaramu, BN Lakshminarasappa, KR Nagabhushana, E Coetsee.

3. Photoluminescence, thermoluminescence glow curve and emission characteristics of Y2O3:Er3+ nanophosphor; Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 189, 15 January 2018, Pages 349-356; Shivaramu N.J., B.N. Lakshminarasappa, Nagabhushana K.R., Swart H.C., Singh Fouran.

2017

4. Synthesis, thermoluminescence and defects centers in Eu^{3+} doped Y_2O_3 nanophosphor for gamma dosimetry applications; *Mater. Res. Express,* **4** (2017) 115033; N. J. Shivaramu, B. N. Lakshminarasappa, K. R. Nagabhushana, Fouran Singh and H.C. Swart.

5. Effect of lithium incorporation on luminescence properties of nanostructured Y_2O_3:Sm^{3+} thin films; Journal of Analytical and Applied Pyrolysis, Volume 123 (2017) pages 229-236; J.R. Jayaramaiah, K.R. Nagabhushana, B.N. Lakshminarasappa.

6. TL and OSL properties of beta irradiated Y_2O_3 nanocrystal; AIP Conference Proceedings 1837 (1) (2017), 040054; NJ Shivaramu, BN Lakshminarasappa, KR Nagabhushana, SH Tatumi, RR Rocca, Fouran Singh.

7. Photoluminescence studies of gamma irradiated Y2O3: Eu3+ nanophosphor; AIP Conference Proceedings 1832 (1) (2017), 050135; NJ Shivaramu, BN Lakshminarasappa, F Singh

2016

8. Effect of 100 MeV swift Si8+ ions on structural and thermoluminescence properties of Y_2O_3:Dy^{3+} nanophosphor; *Radiation effects and Defects in Solids;* Volume 171, No.5-6, June 2016, Pages 408-420; N. J. Shivaramu, B. N. Lakshminarasappa, K. R. Nagabhushana, Fouran Singh.

9. Ion Beam Induced Cubic to Monoclinic Phase transformation of Nano crystalline Yttria; Nuclear Instruments and Methods in Physics Research B; *Volume 379; (2016);Pages 73-77;* N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh.

10. Synthesis characterization and luminescence studies of gamma irradiated nanocrystalline yttrium oxide; Spectrochimica Acta Part A: Molecular and Bio molecular Spectroscopy *Volume 154 ;(2016); Pages 220–231;* N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh.

11. Ion beam induced luminescence studies of sol gel derived Y_2O_3:Dy^{3+} nanophosphors; Journal of Luminescence, *Volume 169; (2016);Pages 627–634;* N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh.

2015

12. SHI induced thermoluminescence properties of sol-gel derived $Y_2O_3:Er^{3+}$ nanophosphor; Adv. Mater. Lett. *Volume 6(4) (2015); Pages 342-347;* N.J. Shivaramu**,** B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh.

13. Thermoluminescence of sol-gel derived $Y_2O_3:Nd^{3+}$ nanophosphor exposed to 100 MeV Si^{8+} ions and gamma rays, Journal of Alloys and Compounds, *Volume 637*; *15 July 2015; Pages 564-573;* N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh.

14. Comparative studies on gamma and ion beam induced luminescence in sol gel derived yttrium oxide; *International Journal of Luminescence and Applications (ISSN: 2277-6362)Vol. 5*, *No. 2, June 2015*, *264-267*; N.J. Shivaramu**,** K.R. Nagabhushana, B.N. Lakshminarasappa, Fouran Singh.

15. Luminescence performance of europium-doped yttrium oxide thin films; *Journal of Luminescence*, *Volume 157*, *January 2015*, *Pages 63-68;* J.R. Jayaramaiah, B.N. Lakshminarasappa, K.R. Nagabhushana.

2014

16. Thermoluminescence studies of γ-irradiated nanocrystalline Y3Al5O12 ; *Radiation Effects and Defects in Solids*; *Volume 169*, Issue *8*, 2014; *Pages* 696-705; N.J. Shivaramu[a]**,** B.N. Lakshminarasappa[a*], K.R. Nagabhushana[b], Ramani[a], Fouran Singh[c].

17. Synthesis characterization and luminescence studies of 100 MeV Si^{8+} ion irradiated sol gel derived nanocrystalline Y_2O_3**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 329, 15 June 2014, Pages 40-47;* B.N. Lakshminarasappa, N.J. Shivaramu, K.R. Nagabhushana, Fouran Singh.

18. Luminescence studies of 100 MeV Si^{8+} ion irradiated nanocrystalline Y_2O_3**;** *Radiation Measurements, Volume 71*, *December 2014*, *Pages 518-523;* N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh.

19. The effect of isovalent and hyper valent ion doping on the structural and luminescence properties of sodium sulfate, *Materials Research Express,1 (1),2014,* 015907; YS Vidya, BN Lakshminarasappa.

20. Influence of Rare Earth Doping on Microstructure and Luminescence Behavior of Sodium Sulphate, *Indian Journal of Materials Science*, 2014; YS Vidya, BN Lakshminarasappa.

21. Synthesis, Characterization and Thermoluminescence Studies of LiNaSO4: Eu3+ nanophosphor, *J. Lum Appl*, 1, 40-60, 2014; YS Vidya, BN Lakshminarasappa.

2013

22. Spectroscopic studies of γ-rayed CaF_2:Sr; *Journal of Luminescence, Volume 138, June 2013, Pages 61-64;* C. Pandurangappa, **B.N. Lakshminarasappa**.

23. Prepapation, charecterization and Luminescence properties of orthorhombic Sodium Sulphate; *Physics Research International, 2013;* Y.S. Vidya and **B.N. Lakshminarasappa**.

2012

24. 100 MeV Si^{8+} ion induced luminescence and thermoluminescence of nanocrystalline $Mg_2SiO_4:Eu^{3+}$**;** *Journal of Luminescence, Volume 132, Issue 11, November 2012, Pages 3093-3097;* S.C. Prashantha, B.N. Lakshminarasappa, Fouran Singh.

25. Luminescence studies of europium doped yttrium oxide nano phosphor**;** *Sensors and Actuators B: Chemical, Volume 173, October 2012, Pages 234-238* ; J.R. Jayaramaiah, B.N. Lakshminarasappa, B.M. Nagabhushana.

26. Morphology and optical properties of Mg and Sr doped CaF_2 nanocrystals**;** *Optics Communications, Volume 285, Issues 10–11, 15 May 2012, Pages 2739-2742;* C. Pandurangappa, B.N. Lakshminarasappa.

27. Thermoluminescence of combustion synthesized yttrium oxide**;** *Powder Technology, Volume 217, February 2012, Pages 7-10;* B.N. Lakshminarasappa, J.R. Jayaramaiah, B.M. Nagabhushana.

28. Optical studies of lanthanum doped calcium fluoride; *Journal of Materials Science, Volume 47, 2012, Pages 892-897;* C. Pandurangappa and B.N. Lakshminarasappa.

2011

29. Ionoluminescence studies of combustion synthesized Dy^{3+} doped nano crystalline forsterite**;** *Current Applied Physics, Volume 11, Issue 6, November 2011, Pages 1274-1277*; **B.N. Lakshminarasappa**, S.C. Prashantha, Fouran Singh.

30. Thermoluminescence studies of solution combustion synthesized $Y_2O_3:Nd^{3+}$ nanophosphor**;** *Materials Chemistry and Physics, Volume 130, Issues 1–2, 17 October 2011, Pages 175-178;* J.R. Jayaramaiah, **B.N. Lakshminarasappa**, B.M. Nagabhushana.

31. Photoluminescence and thermoluminescence studies of $Mg_2SiO_4:Eu^{3+}$ nano phosphor**;** *Journal of Alloys and Compounds, Volume 509, Issue 42, 20 October 2011, Pages 10185-10189;* S.C. Prashantha, **B.N. Lakshminarasappa**, B.M. Nagabhushana.

32. Synthesis and optical studies of gamma irradiated Eu doped nanocrystalline CaF_2**;** *Journal of Alloys and Compounds, Volume 509, Issue 29, 21 July 2011, Pages 7671-7673;* C. Pandurangappa, **B.N. Lakshminarasappa**, B.M. Nagabhushana.

33. Luminescence studies on swift heavy ion irradiated nanocrystalline aluminum oxide**;** *Journal of Luminescence, Volume 131, Issue 4, April 2011, Pages 764-767;* K.R. Nagabhushana, **B.N. Lakshminarasappa**, D. Revannasiddaiah, Fouran Singh.

34. Optical studies in gamma irradiated Mg doped CaF_2 single crystals**;** *Optics Communications, Volume 284, Issue 5, 1 March 2011, Pages 1259-1261;* C. Pandurangappa, **B.N. Lakshminarasappa**.

35. Optical absorption and thermoluminescence studies in 100 MeV swift heavy ion irradiated CaF_2 crystals**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 269, Issue 2, 15 January 2011, Pages 185-188;* C. Pandurangappa, **B.N. Lakshminarasappa**, Fouran Singh, K.R. Nagabhushana.

36. Optical studies of samarium-doped fluoride nanoparticles; *Philosophiocal Magazine, Volume 91, Pages 4486-4494, 2011;* C. Pandurangappa and **B.N. Lakshminarasappa**

2010

37. Synthesis and characterization of CaF_2 nanocrystals**;** *Journal of Alloys and Compounds, Volume 489, Issue 2, 21 January 2010, Pages 592-595;* C. Pandurangappa, **B.N. Lakshminarasappa**, B.M. Nagabhushana.

2009

38. Swift heavy ion irradiation induced phase transformation in calcite single crystals**;** *Solid State Communications, Volume 149, Issues 43–44, November 2009, Pages 1905-1908;* H. Nagabhushana, B.M. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh, R.P.S. Chakradhar.

39. Raman and infrared study of 100 MeV swift Ag^{8+} heavy ion irradiation effects in $CaSO_4 \cdot 2H_2O$ single crystals**;** *Journal of Alloys and Compounds, Volume 482, Issues 1–2, 12 August 2009, Pages 308-312;* H. Nagabhushana, B.M. Nagabhushana, H.B. Premkumar, **B.N. Lakshminarasappa**, Fouran Singh, R.P.S. Chakradhar.

40. Photoluminescence studies of 100 MeV Ni^{8+} ion irradiated Al_2O_3 single crystals**;** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 73, Issue 4, 15 August 2009, Pages 637-641;* H. Nagabhushana, B. Umesh, B.M. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh, R.P.S. Chakradhar.

41. Swift heavy ion induced thermoluminescence studies in polycrystalline aluminum oxide; *Indian Journal of Engineering & Materials Sciences, Volume 16, June 2009, Pages 161-164;* K R Nagabhushana, B N Lakshminarasappa, D Revannasiddaiah, D Haranath and Fouran Singh.

2008

42. Damage creation in swift heavy ion-irradiated calcite single crystals: Raman and Infrared study**;** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 71, Issue 3, 1 December 2008, Pages 1070-1073;* H. Nagabhushana, S.C. Prashantha, B.M. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh.

43. Ion beam-induced luminescence and photoluminescence of 100 MeV Si^{8+} ion irradiated kyanite single crystals**;** *Solid State Communications, Volume 147, Issues 9–10, September 2008, Pages 377-380;* H. Nagabhushana, S.C. Prashantha, B.M. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh, R.P.S. Chakradhar.

44. Thermally stimulated luminescence studies combustion synthesized aluminum oxide; *Bulletin of Material Science Volume 31, No.4, August 2008, Pages 669 - 672;* K.R. Nagabhushana, **B.N. Lakshminarasappa**, D. Revannasiddaiah and Fouran Singh.

45. Thermoluminescence studies in swift heavy ion irradiated aluminum oxide**;** *Radiation Measurements, Volume 43, Supplement 1, August 2008, Pages S651-S655;* K.R. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh.

46. Ion beam induced modifications in electron beam evaporated aluminum oxide thin films**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 266, Issue 8, April 2008, Pages 1475-1479;* K.R. Nagabhushana, **B.N. Lakshminarasappa**, C. Pandurangappa, Indra Sulania, P.K. Kulria, Fouran Singh.

47. AFM and photoluminescence studies of swift heavy ion induced nanostructured aluminum oxide thin films**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 266, Issue 7, April 2008, Pages 1049-1054;* K.R. Nagabhushana, **B.N. Lakshminarasappa**, K. Narasimha Rao, Fouran Singh, Indra Sulania.

48. Ionoluminescence and photoluminescence studies of Ag^{8+} ion irradiated kyanite**;** *Journal of Luminescence, Volume 128, Issue 1, January 2008, Pages 7-10;* H. Nagabhushana, S.C. Prashantha, **B.N. Lakshminarasappa**, Fouran Singh.

2007

49. Swift heavy ion induced photoluminescence studies in Aluminum oxide; *Radiation effects and Defects in Solids* Volume 162, No.5, May 2007, Pages 325-334; K.R. Nagabhushana, **B.N. Lakshminarasappa**, G.T. Chandrappa, D. Haranath and Fouran Singh.

2006

50. Spectroscopic studies of swift heavy ion irradiated nanophase mullite**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 244, Issue 1, March 2006, Pages 31-33;* H. Nagabhushana, **B.N. Lakshminarasappa**, S.C. Prashantha, K.R. Nagabhushana, Fouran Singh.

51. Luminescence studies in swift heavy ion irradiated aluminum silicates**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 244, Issue 1, March 2006, Pages 153-156;* **B.N. Lakshminarasappa**, H. Nagabhushana, Fouran Singh.

2003

52. Photoluminescence studies in swift heavy ion bombarded mullite**;** *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 211, Issue 4, December 2003, Pages 545-548;* H. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh, D.K. Avasthi.

53. Ionoluminescence and photoluminescence in swift heavy ion-irradiated Al_2SiO_5**;** *Radiation Measurements, Volume 36, Issues 1–6, June 2003, Pages 643-646;* H. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh, D.K. Avasthi.

54. Thermoluminescence studies of Si^{+8} ion irradiated kyanite**;** *Radiation Measurements, Volume 36, Issues 1–6, June 2003, Pages 653-655;* H. Nagabhushana, **B.N. Lakshminarasappa**, Fouran Singh, D.K. Avasthi.

1987

55. Optical bleaching studies of color centers in quenched sodium bromide crystals; *Crystal Lattice Defects and Amorphous Materials. Volume* 17, 1987, Pages 183; **B.N. Lakshminarasappa**, N. Devaraj and K.N. Kuchela.

1983

56. Optical studies of X-irradiated sodium bromide single crystals; *Crystal. Lattice Defects and Amorphous Materials Volume* 10, 1983, Pages 113; B.N. Lakshminarasappa, N. Devaraj, K.N. Kuchela and Y.V.G.S. Murti.

Conference Proceedings (National and International):

2018

57. Synthesis, Structural and Thermoluminescence in Ho3+ doped Y2O3 nanophosphor for High Energy Dosimetry Applications; Proc.*Nat. Conf. on Lum. and Applications (NCLA2018);* N.J. Shivaramu, B.N. Lakshminarasappa, Fouran Singh, p94.

58. Ionoluminescence and Photoluminescence studies of Dy^{3+} and Sm^{3+} co doped Y_2O_3 Nanophosphor; Proc.*Nat. Conf. on Lum. and Applications (NCLA2018);* B.N. Lakshminarasappa, N.J. Shivaramu, Fouran Singh, p20.

2017

59. Ionoluminescence as tool for monitoring rare earth emissions in yttrium oxide; Proc. National Conference on Luminescence and Applications (NCLA2017); N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, Fouran Singh, Subodh K. Gautam, p42.

60. Thermo and Photoluminescence behavior of Ln3+ doped BaAl2O4 nanophosphor; Proc. *National Conference on Luminescence and Applications (NCLA2017);* N.J. Shivaramu, B.N. Lakshminarasappa, K.R. Nagabhushana, p275.

2016

61. Ionoluminescence of oxide nanophosphors; B.N. Lakshminarasappa,N.J. Shivaramu,H.S. Lokesh,S.Satyanarayana Reddy, Fouran Singh, K.R. Nagabhushana; National conference on Materials for specific applications, *RTM Nagapur University, Feb 9-11, 2016*

62. Enhancement of green emission from Y2O3:Tb by swift heavy ion; N.J. Shivaramu, **B.N. Lakshminarasappa**, K.R. Nagabhushana, Fouran Singh; *National conference on Materials for specific applications, RTM Nagapur University, Feb 9-11, 2016*

63. Luminescence and ESR investigation of gamma and beta irradiated Y2O3:Eu3+ nanophosphors;N.J. Shivaramu, **B.N. Lakshminarasappa**, K.R. Nagabhushana, Fouran Singh; *National Conference on Luminescence and its applications. RTM Nagapur University, Feb 9-11, 2016*

2015

64. Photoluminescence and Thermoluminescence studies of Sol-gel derived Y_2O_3:Er^{3+} nanophosphor; ICMAT & IUMRS 2015, Singapore; Abst. P.

65. Swift heavy ion induced luminescence properties of Y_2O_3:Eu^{3+} nanophosphors; ICMAT & IUMRS 2015, Singapore; Abst. P.

66. Luminescence Studies of Combustion Synthesized Y_2O_3: Dy^{3+} Nanophosphors - A White LED; N.J. Shivaramu, **B.N. Lakshminarasappa**, K.R. Nagabhushana and Fouran Singh; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore*;* ID: 400

67. Luminescence Studies of Samarium Doped Yttrium Oxide Thin Film; J.R. Jayaramaiah,**B.N. Lakshminarasappa** and K.R. Nagabhushana; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore; 387,ID: 402.

68. Spectroscopic Investigations of Trivalent Lanthanide Doped Yttria; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore; N.J. Shivaramu, **B.N. Lakshminarasappa**, K.R. Nagabhushana and Fouran Singh;ID: 401.

69. Synthesis and Thermoluminescence Studies in Lanthanum Aluminate Nanophosphor; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore; N.J. Shivaramu, **B.N. Lakshminarasappa**,
K.R. Nagabhushana and Fouran Singh; ID: 452.

70. Synthesis and Thermoluminescence Kinetic Parameters of Gamma Irradiated $BaAl_2O_4$ Nanocrystal; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore; N.J. Shivaramu, **B.N. Lakshminarasappa**, K.R. Nagabhushana and Fouran Singh; ID: 452

71. Half Life of Thermoluminescence Traps in Gamma Irradiated Al_2O_3; K.R. Nagabhushana, S. Satyanarayana Reddy, G.K. Narasimha Murthy and **B.N. Lakshminarasappa**; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore; ID: 399

72. Optical Absorption and Thermoluminescence Studies in Dy Doped Nanocrystalline CaF_2; C. Pandurangappa and **B.N. Lakshminarasappa**; *Proceedings of the 5 International Conference on Luminescence and its Applications (ICLA 2015),* PES University, Bangalore; ID: 472

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