

BIODATA

- A. **Name** : Dr. D. P. Bisen
B. **Date of Birth** : 11th September 1965
C. **Institution** : School of Studies in Physics and Astrophysics,
Pt. Ravishankar Shukla University Raipur (C.G.)
D. **Whether belongs to SC/ST** : No
E. **Academic (M.Sc. onwards) and Professional carrier.**

Degree/ Position held	Year	University
M. Sc.	1987	Dr. H. S. Gour University, Sagar.
M. Phil in Physics	1989	Physics Department, Rani Durgavati University Jabalpur.
Ph. D. in Physics	1992	Physics Department, Rani Durgavati University Jabalpur.
CSIR Senior Research Fellow	1990-1994	Physics Department, Rani Durgavati University Jabalpur.
Instrument Scientist	1994-2005	Physics Department, Rani Durgavati University Jabalpur.
Reader in Physics	2005	School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University Raipur (C.G.)
Professor in Physics	Apr.2011	School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University Raipur (C.G.)

F. **Teaching Experience:**

- (i) U.G. level- **01 years**
(ii) P.G. level-

At R.D.V.V Jabalpur- **10 years**
(As an Instrument Scientist)

At Pt. R. S. University Raipur- from April 2005 (06 years)
(As a Reader) From Apr 2011 to till date as a Professor

G. **Research Experience:** 28 years

H. **No. of Ph.D** : 12 Awarded and 06 Registered

I. **No. of M. Phil.** : 08

J. **Field of Specialization** : Solid State Physics , Optical Properties of Bulk and Nano Phosphors

K. **Research Publication:**

(i) In Journals- 168

(ii) International Conference/ Workshop- 20

(iii) National Conference/ Symposium- 80

L. **Membership of Academic Association:**

(a) Life member: Luminescence Society of India.

(b) Secretary of Luminescence Society of India from 2016 to till date.

List of Publication in Journals

1. **Bisen, D. P.**, & Chandra, B. P. (1989). Theoretical approach to the mechanoluminescence of thermoluminescence crystals, *Physica Status Solidi (a)*, 114 K, 123-125.
2. **Bisen, D. P.**, & Chandra, B. P. (1992). Electronic excitation during elastic deformation of r-irradiated LiF single crystals, *Physica Status Solidi (a)*, 132 K, 101-104.
3. **Bisen, D. P.**, Chandra, B. P., Khokhar, M. S. K., & Kher, R. S. (1993). Effect of divalent impurities on the mechanoluminescence of r- irradiated NaCl and LiF single crystals, *Indian Journal of Pure and Applied Physics*, Vol.31, 952-954.
4. **Bisen, D. P.**, Chandra, B. P., Rahangdale, Y., Khare, P. K., & Sharma, Deepti (1995) Suitable stress wave forms for the deformation induced electronic excitation in crystals, *Cryst. Res. Technol*, 30, 691-701.
5. **Bisen, D. P.**, Chandra, B. P., Tiwari, R. K., & Mor, R. (1997). Theoretical approach to the lyoluminescence of alkali halides, *J. Luminescence*, 75, 127-133.
6. **Bisen, D. P.**, Mishra, A., Pandey, R. K., Mishra, M. P., & Chandra, B. P. (2000). Sensitizer dependence of the anti-stokes luminescence in YOCl :Yb, Er system, *J. Pure and Applied Physics*, Vol. 38, 515-519.

7. **Bisen, D. P.**, Pandey, R. K., Bhatt, S., & Chandra, B. P. (2000). Mechanoluminescence produced during impulsive deformation of X-irradiated sodium tetraborate glasses, *Indian J. Phys*, 74A(2), 179-182.
8. **Bisen, D. P.**, Mishra, A., Pandey, R. K., & Chandra, B. P. (2000). Anti stokes luminescence in Yb^{3+} and Er^{3+} doped YOCl phosphors, *Indian J. Phys*, 74A(4), 423-428.
9. **Bisen, D. P.**, Chandra, B.P., Pandey, R. K., & Shrivastava, Mamta. (2000). Effect of post-irradiation deformation on the thermoluminescence of alkali halide crystals, *Res. J. (Sci) R. D. University, Jabalpur*, Vol.7 No. 2, 203-216.
10. Kathuria, R., Chandra, B. P., Ramrakhiani, M., & **Bisen, D. P.** (2004). Excitation & emission spectra of anti-stokes luminescence of Tm^{3+} in glass ceramics doped with various concentrations of sensitizer, *Indian Journal of pure and Applied Physics*, Vol.42, 136-141.
11. Patel, S., Ramrakhiani, M., & **Bisen, D. P.** (2007). Photophysical studies of polyvinyl carbazole polymer films, *Journal of Applied Polymer Science*, Vol.104, 722-726.
12. Upadhyay, P., Ramrakhiani, M., & **Bisen, D. P.** (2008). Photoluminescence and electroluminescence studies of polyvinyl Carbazole films, *Journals of Luminescence* 128, 1595-1600.
13. Sharma, Ravi, Chandra, B. P., & **Bisen, D. P.** (2009). Photophysical properties of ZnS:Mn nanocrystals, *Lab to Land*, Vol 1, 18-21.
14. Sharma, Ravi, Chandra, B. P., & **Bisen, D. P.** (2009). Thermoluminescence and optical absorption spectra of ZnS:Mn nanoparticles, *Chalcogenide Letters* Vol 6, No. 6, 251-255.
15. Sharma, Ravi, Chandra, B. P., & **Bisen, D. P.** (2009). Optical properties of ZnS:Mn nanoparticles prepared by chemical routes, *Chalcogenide Letters* Vol 6, No. 8, 339-342.
16. **Bisen, D. P.**, Sharma, Ravi, **Brahme, Nameeta**, & Tamrakar, Raunak. (2009). Effect of temperature on the synthesis of CdS:Mn doped nanoparticles, *Chalcogenide Letters* Vol.6, No 9, 427-431.
17. **Brahme, Nameeta, Bisen, D. P.**, Kher, R. S., & Khokhar, M. S. K. (2009). Mechanoluminescence and Thermoluminescence in γ -irradiated rare earth doped CaF_2 crystals, *Physics Procedia (Elsevier)* 2, 431-440.
18. Sahu, V., **Brahme, N., Bisen, D. P.**, & Sharma, R. (2009). Effect of Lyoluminescence decay in impurity doped KCl microcrystalline powder in lyoluminescence dosimetry of ionization radiations, *Journal of Optoelectronics and Biomedical*, Vol.1, issue 3, 297-302.

19. Sahu, V., **Brahme, N., Bisen, D. P.,** & Sharma, R. (2010). Effect of temperature on photoluminescence of divalent impurity doped potassium chloride, Journal of optoelectronics and advanced materials: rapid communication, Vol.4, issue 3, pp.305-308.
20. **Brahme, N.,** Shukla, Manju, **Bisen, D. P.,** Kurrey, U., Choubey, Anil, Kher, R. S., & Singh, Manisha. (2011). Mechanoluminescence by impulsive deformation γ -irradiated Er-doped CaF_2 crystals, Journal of Luminescence, 131, 965–969.
21. Sharma, Ravi, Dhoble, S. J., **Bisen, D. P., Brahme, N.,** & Chandra, B. P. (2011). Chemical route synthesis dependent partial size of Mn activated ZnS nanophosphors, Int. J. Nanoparticles, Vol.4, No.1, 64-76.
22. Sharma, Ravi, **Bisen, D. P., Brahme, N.,** & Chandra, B. P. (2011). Mechanoluminescence glow curve of ZnS:Mn nanocrystals prepared by chemical route, Digest Journal of Nanomaterials and biostructures, Vol.6, No. 2, pp 483-490.
23. Sharma, Ravi, **Bisen, D. P., Brahme, N.,** Dhoble, S. J., & Chandra, B. P. (2011). Mechanoluminescence and Thermoluminescence of Mn doped ZnS nanocrystals, Journal of Luminescence, 131, pp 2089-2092.
24. Choubey, A. K., **Brahme, Nameeta, Bisen, D. P.,** & Sharma, Ravi. (2011). Mechanoluminescence and Thermoluminescence of SrAl_2O_4 : Eu Nano-Phosphor, The Open Nanoscience Journal, 5, (Suppl 1-M3), 41-44.
25. Vishwakarma, Piyush, Ramrakhiani, M., Singh, P., & **Bisen, D. P. (2011).** Synthesis and Electroluminescence Studies of Manganese Doped Cadmium Sulfide Nanoparticles, The Open Nanoscience Journal, 5, (Suppl 1-M2), 34-40.
26. Sharma, Ravi, **Bisen, D. P., Brahme, N.,** Dhoble, S. J., & Chandra, B. P. (2011). Optical absorption spectra and photoluminescence of ZnS nanoparticles doped with Mn, Search & Research Vol. 3 No.(1), 41-44
27. Sharma, Ravi, Sharma, B. G., & **Bisen, D. P. (2011).** Photoluminescence of ZnS and ZnS:Mn nanoparticles, CSVTU Research Journal, Vol. 4 No.(1), pp 25-27 [ISSN No. 0974-8725].
28. Sharma, B.G., Agrawal, Sadhna, **Bisen, D. P.,** Sharma, Ravi, & Sharma, Malti. (2011). Multiscale entropy analysis of the spectral indices of the Indian stock market, CSVTU Research Journal, Vol. 4 No.(1), pp 28-33 [ISSN No. 0974-8725].

29. **Brahme, Nameeta**, Gupta, Anuradha, **Bisen, D. P.**, Kher, R. S., Dhoble, S. J. (2012). Thermoluminescence and mechanoluminescence of Eu doped Y_2O_3 nanophosphors, *Physics Procedia*, pp 97 – 103.
30. Choubey, A. K., **Bramhe, Nameeta, & Bisen, D. P.** (2012). Mechanoluminescence By Impulsive Deformation and Photoluminescence of $SrAl_2O_4:Eu$ Phosphor Prepared by Combustion Synthesis, *Physics Procedia* 29, pp 104-108.
31. Brahme, Nameeta, Shukla, M., Choubey, A. K., Kurrey, U., **Bisen, D. P. & Dhoble, S. J.** (2012). Mechanoluminescence and thermoluminescence of $BaFCl: Sm^{2+}$ and $BaFBr: Sm^{2+}$ crystals: **Radiation Effects & Defects in Solids**, Vol. 167 No.5, 326-332. [Impact factor: 0.66] [ISSN 1042-0150].
32. Robinson, C. S., **Bisen, D. P., Brahme, Nameeta, & Tamrakar, Raunak.** (2012). Thermoluminescence Study of $ZrO_2: Er^{3+}, Yb^{3+}$, *J. Pure Appl. & Ind. Phys.* Vol. 2 (3A), 310-351. [ISSN No. 2229-7596].
33. Tamrakar, Raunak, **Bisen, D. P., Brahme, Nameeta & Robinson, C. S.** (2012). Thermoluminescence Study of $Gd_2O_3:Er^{3+}, Yb^{3+}$, *J. Pure Appl. & Ind. Phys.* Vol. 2 (3A), 348-314, [ISSN No. 2229-7596].
34. Sharma, Ravi, **Bisen, D. P.**, Wanjari, Lata, Ishwar, & Shukla, Usha. (2012). Optical Properties of Bulk $ZnS:Mn$ and $ZnS:Mn$ Nanoparticles, *J. Pure Appl. & Ind. Phys.* Vol. 2 (3A), 360-364 [ISSN No. 2229-7596].
35. Sharma, Ravi, Sharma, B. G., **Bisen, D. P. & Sharma, Malti.** (2012). Study of Scaling Behavior of Nifty Using Detrended Fluctuations Analysis, *J. Pure Appl. & Ind. Phys.* Vol. 2 (3A), 398-402, [ISSN No. 2229-7596].
36. Tamrakar, R. K., **& Bisen, D. P. (2013).** Optical and kinetics study of $CdS:Cu$ nanoparticles, **Res. Chem. Intermed** (Springer) Vol. 39, No. 7, 3043-3048. [ISSN No. 0922-6168]. [Impact factor: 0.88].
37. Choubey, A. K., **Bramhe, Nameeta, Bisen, D. P. & Dhoble, S. J.** (2012). Thermoluminescence of γ -irradiated $SrAl_2O_4:Dy$, *Recent Research in Science and Technology*, 4(8): 49-51, [ISSN No. 2076-5061].
38. Wanjari, Lata, **Bisen, D. P., Brahme, Nameeta**, Sharma, Ravi & Sahu, Ishwar, Prasad. (2012). Thermoluminescence of Cu Doped ZnS Nanoparticles, *Recent Research in Science and Technology*, 4(8): 61-63, [ISSN No. 2076-5061].

39. Tamrakar, Raunak, **Bisen, D. P., & Brahme, Nameeta.** (2012). Combustion Synthesis and Up-conversion Luminescence Properties of $\text{Er}^{3+}, \text{Yb}^{3+}$ Doped Gadolinium Oxide Nanophosphors, Recent Research in Science and Technology, 4(8): 70-72, [ISSN No. 2076-5061].
40. Tamrakar, Raunak, **Bisen, D. P., Brahme, Nameeta,** Robinson, C. S. & Sharma, B. G. (2012). Effect of Firing Temperature on the Particle Size of $\text{Gd}_2\text{O}_3:\text{Eu}$ Doped Nanophosphors, Recent Research in Science and Technology, 4(8): 73-74, [ISSN No. 2076-5061].
41. Sharma, Ravi, **Bisen, D. P. & Shukla, Usha.** (2012). X-Ray Diffraction: A Powerful method of Characterizing Nanomaterials, Recent Research in Science and Technology, 4(8): 77-79 [ISSN No. 2076-5061].
42. Bhuie, Manmeet, Kaur, **Bisen, D. P. & Brahme, Nameeta.** (2012). Studies of Thermoluminescence Parameters of Erbium Doped Y_2O_3 Nanophosphors, Recent Research in Science and Technology, 4(8): 80-81, [ISSN No. 2076-5061].
43. Pateriya, Deepti, Baghel, R. N., **Bisen, D. P., & Chandra, B. P.** (2012). Determination of the Trap Depth of $(\text{ZnS})_{1-x}(\text{MnTe})_x$ using Thermoluminescence, Recent Research in Science and Technology, 4(8): 87-88. [ISSN No. 2076-5061].
44. Brahme, Nameeta, **Bisen, D. P., & Kher, R. S.** (2012). Optical Properties of Calcium Aluminate Phosphors, Mohammad Ziyauddin, Recent Research in Science and Technology, 4(8): 97-98, [ISSN No. 2076-5061].
45. Sao, S. K., Brahme, Nameeta, **Bisen, D. P.,** Tiwari, Geetanjali, Tigga, Shalinta, Sahu, Ishwar, Prasad, & Kurrey, Ugendra. (2012). Mechanoluminescence Properties of $\text{SrAl}_2\text{O}_4:\text{Tb}^{3+}$ Phosphors, Recent Research in Science and Technology, 4(8): 106-107, [ISSN No. 2076-5061].
46. Sao, Sanjay, Kumar, Brahme, Nameeta, **Bisen, D. P.,** Tiwari, Geetanjali, Tigga, Shalinta, Chandakar, Priya. & Tamrakar, Raunak. (2012). Thermoluminescence and Mechanoluminescence Studies of $(\text{Cd}_{0.95}\text{Zn}_{0.05})\text{S}:\text{Ag}$ Doped Phosphors, Recent Research in Science and Technology, 4(8): 123-124, [ISSN No. 2076-5061].
47. Brahme, Nameeta, Gupta, Anuradha, **Bisen, D. P. & Kurrey, Ugendra.** (2012). Thermoluminescence Study of $\text{Y}_2\text{O}_3:\text{Tb}$, Recent Research in Science and Technology, 4(8): 136-138, [ISSN No. 2076-5061].

48. Tamrakar, Raunak, Kumar, **Bisen, D. P. &** Brahme, Nameeta. (2013). Characterization and luminescence properties of Gd₂O₃ phosphor: Res. Chem. Intermed (Springer), Vol 39, No. 2, [ISSN 0922-6168] [Impact factor: 1.540].
49. Ziyauddin, Mohammad, Brahme, Nameeta **Bisen, D. P. &** Kher, R. S. (2013). Studies on Thermoluminescence (TL) from BaAl₂O₄: Dy phosphor, International Journal of Luminescence and Applications, Vol 3, No. 1, Article ID: 019, pages 76 – 78, [ISSN 2277 – 6362].
50. Choubey, Anil, Kumar, Brahme, Nameeta, Dhoble, S. J., **Bisen, D. P. &** Ghormare, K. B. (10 November 2013). Thermoluminescence characterization of γ -ray irradiated Dy³⁺ activated SrAl₄O₇ nanophosphor, **Advanced Materials Letters** 5(7) 396-399, Scopus publication **SCI Journal** [Impact factor: 1.93]. [ISSN 0976-3961].
51. Gupta, Anuradha, Brahme, Nameeta, & **Bisen, Durga, Prasad.** (26 June 2014). Electroluminescence and photoluminescence of rare earth (Eu, Tb) doped Y₂O₃ nanophosphor, **Journal of Luminescence, Elsevier Publication**, 155, 112-118, **SCI Journal** [Impact factor: 2.144]. [ISSN 0022-2313].
52. Sahu, Ishwar, Prasad, **Bisen, D. P. &** Brahme, Nameeta. Structural Characterization and optical properties of Ca₂MgSi₂O₇:Eu²⁺, Dy³⁺ phosphor by solid state reaction method, **Luminescence: The Journal of Biological and Chemical Luminescence, Wiley, SCI Journal** [Impact factor: 1.675]. [Print ISSN: 1522-7235], [Online: 1522-7243].
53. Sahu, Ishwar, Prasad, **Bisen, D. P. &** Brahme, Nameeta. (2014). Dysprosium doped di-strontium magnesium di-silicate white light emitting phosphor by solid state reaction method **Displays, Elsevier Publication** 35, 279-286 **SCI Journal** [Impact Factor: 1.205]. [ISSN: 0141-9382].
54. Sahu, Ishwar, Prasad, **Bisen, D. P.,** Brahme, Nameeta. & Sharma, Ravi. (2014). Luminescence Properties of Eu²⁺ and Dy³⁺ Doped Sr₂MgSi₂O₇ and Ca₂MgSi₂O₇ Phosphors by Solid State Reaction Method, Res Chem Intermed, DOI 10.1007/s11164-014-1767-6. **SCI Journal** [ISSN 0922-6168]. [Impact factor: 1.540].

55. Tamrakar, Raunak, Kumar, **Bisen, Durga, Prasad**, & Brahme, Nameeta. (2014). Comparison of photoluminescence properties of Gd₂O₃ phosphor synthesized by combustion and solid state reaction method, **Journal of Radiation Research and Applied Sciences, Elsevier Publication [ISSN: 1687-8507]**.
56. Tamrakar, Raunak, Kumar, **Bisen, Durga, Prasad**, Sahu, Ishwar, Prasad, & Brahme, Nameeta. (2014). UV and gamma ray induced thermoluminescence properties of cubic Gd₂O₃:Er³⁺ phosphor, **Journal of Radiation Research and Applied Sciences, [ISSN: 1687-8507]**.
57. Kaur, Manmeet, **Bisen, D. P.**, Brahme, N. & Singh, Prabhjot. (2014). Thermoluminescence property of Y₂O₃:Yb³⁺ doped nanophosphors; CSVTU journal of Advanced Material Engineering 7, 65-70, [ISSN -0974-8725].
58. Kaur, Manmeet, **Bisen, D. P.**, Brahme, N. & Singh, Prabhjot. (2014). Morphological and structural studies of erbium (Er³⁺) and ytterbium doped (Yb³⁺) yttrium oxide nanophosphor prepared by combustion synthesis method, Journals of engineering computers and applied science, vol. 3, No 7, 25-28, [ISSN – 2319-5606].
59. Tamrakar, Raunak, Kumar, **Bisen, Durga, Prasad**, & Brahme, Nameeta. (2014). Effect of Yb³⁺ Concentration on Photoluminescence Properties of Cubic Gd₂O₃ Phosphor, **Infrared Physics & Technology**, DOI: 10.1016/j.infrared.2014.10.020, [**Impact Factor: 1.36**].
60. Wanjari, Lata, **Bisen, D. P.**, Brahme, Nameeta, Sahu, Ishwar, Prasad, & Sharma, Ravi. (2014). Effect of capping agent concentration on thermoluminescence and photoluminescence of copper-doped zinc sulfide nanoparticles, **Luminescence: The Journal of Biological and Chemical Luminescence, Wiley SCI Journal, [Impact factor: 1.675 [Print ISSN: 1522-7235], [Online: 1522-7243]**.
61. Sahu, Ishwar Prasad, **Bisen, D. P.**, Brahme, Nameeta, Patle, V. K. & Tamrakar, Raunak. (2014). Characterization Techniques and Mechanoluminescence Properties of Sr₂SiO₄:Eu²⁺ Phosphor by Solid State Reaction Method, Research Journal of Science and Technology, 6(3), 147-150, [ISSN 0975-4393], [(Print) 2349-2988 (Online)].

62. Sharma, Ravi, & **Bisen, D. P.** (2014). Thermoluminescence of mercaptoethanol-capped ZnS:Mn nanoparticles, DOI: 10.1002/bio.2710 **Luminescence: The Journal of Biological and Chemical Luminescence, Wiley SCI Journal**, [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].
63. Tamrakar, Raunak Kumar, **Bisen, D. P.**, Upadhyay, K. & Tiwari, S. (2014). Synthesis and thermoluminescence behavior of $\text{ZrO}_2:\text{Eu}^{3+}$ with variable concentration of Eu^{3+} doped phosphor, Journal of Radiation Research and Applied Sciences, 7(4), 486-490, [ISSN: 1687-8507].
64. Tamrakar, Raunak Kumar, Upadhyay, K. & **Bisen, D. P.** (2014). Gamma ray induced thermoluminescence studies of yttrium (III) oxide nanopowders doped with gadolinium, Journal of Radiation Research and Applied Sciences, 7(4), 526-531, [ISSN: 1687-8507].
65. Tamrakar, Raunak Kumar, Tiwari, N., Kuraria, R. K., **Bisen, D. P.**, Dubey, V. K. (2015). Effect of annealing temperature on thermoluminescence glow curve for UV and gamma ray induced $\text{ZrO}_2:\text{Ti}$ phosphor, 2015 <http://dx.doi.org/10.1016/j.jrras.2014.10.005>.
66. Tamrakar, Raunak Kumar, **Bisen, D. P.** & Bramhe, N. (2015). Influence of Er^{3+} concentration on the photoluminescence characteristics and excitation mechanism of $\text{Gd}_2\text{O}_3:\text{Er}^{3+}$ phosphor synthesized via a solid-state reaction method, **Luminescence: The Journal of Biological and Chemical Luminescence**, DOI 10.1002/bio.2803. **Wiley SCI Journal** [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].
67. Tamrakar, Raunak, Kumar, **Bisen, D. P.** & Upadhyay, K. (2015). Effect of annealing on down-conversion properties of monoclinic $\text{Gd}_2\text{O}_3:\text{Er}^{3+}$ nanophosphors, **Luminescence: The Journal of Biological and Chemical Luminescence**, 2015 DOI 10.1002/bio.2824, **Wiley SCI Journal**, [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].
68. Sahu, Ishwar, Prasad, **Bisen, D. P.** & Brahme, Nameeta. (2015). Luminescent Properties of Green Emitting $\text{Ca}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$ Phosphor by Solid State Reaction Method, **Luminescence: The Journal of Biological and Chemical Luminescence**, DOI 10.1002/bio.2869, **Wiley Publication, SCI Journal**, [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].

69. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta, Wanjari, Lata. & Tamrakar, Raunak, Kumar. (2015). Structural Characterization and Luminescence Properties of Bluish-Green Emitting $\text{SrCaMgSi}_2\text{O}_7:\text{Eu}^{2+}$, Dy^{3+} Phosphor by Solid State Reaction Method, Research on Chemical Intermediate, DOI:10.1007/s11164-015-1929-1, Springer Publication, SCI Journal, [Impact factor: 1.540], [ISSN: 0922-6168].
70. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta, & Ganjir, Manju. (2015). Enhancement on the Photoluminescence and Long Afterglow Properties of $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$ Phosphor by Dy^{3+} Co-doping, Luminescence: The Journal of Biological and Chemical Luminescence, AID BIO2900, Wiley Publication, SCI Journal, [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].
71. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta, & Tamerakar, Raunak, Kumar. (2015). Photoluminescence properties of europium doped di-strontium magnesium di-silicate phosphor by solid state reaction method, Journal of Radiation Research and Applied Sciences, 104-109. Elsevier Publication, [ISSN: 1687-8507].
72. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta, & Tamerakar, Raunak, Kumar. (2015). Europium Doped Di-calcium Magnesium Di-silicate Orange-Red Emitting Phosphor by Solid State Reaction Method, Journal of Radiation Research and Applied Sciences, DOI 10.1016/j.jrras.2015.02.007 Elsevier Publication, [ISSN: 1687-8507].
73. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta, Wanjari, Lata, Tamerakar, Raunak, Kumar. (2015). Luminescence Properties of $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$, Ce^{3+} Phosphor by Solid State Reaction Method, Physics Procedia, Elsevier Publication, [ISSN: 1675-3892].
74. Sahu, Ishwar, Prasad, **Bisen, D. P.** & Brahme, Nameeta. (2015). Structural Characterization and Optical Properties of Dysprosium Doped Strontium Calcium Magnesium Di-silicate White Light Emitting Phosphor by Solid State Reaction Method, Displays, <http://dx.doi.org/10.1016/j.displa.2015.03.002>, Elsevier Publication, SCI Journal, [Impact Factor: 1.205], [ISSN: 0141-9382].
75. Ziyauddin, Mohammad, Tigga, Shalinta, Brahme, Nameeta. & **Bisen, D. P.** (2015). Photoluminescence and thermoluminescence studies of $\text{CaAl}_2\text{O}_4:\text{Dy}^{3+}$ phosphor

Luminescence: The Journal of Biological and Chemical Luminescence, DOI 10.1002/bio.2926 **Wiley Publication, SCI Journal**, [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].

76. Chandrakar, P., Baghel, R. N., **Bisen, D. P.** & Chandra B. P. (2015) Characterization and luminescence properties of $\text{CaMgSi}_2\text{O}_6:\text{Eu}^{2+}$ blue phosphor, Luminescence: The Journal of Biological and Chemical Luminescence, DOI 10.1002/bio.2855 **Wiley Publication, SCI Journal**, [Impact factor: 1.675], [Print ISSN: 1522-7235], [Online: 1522-7243].
77. Sahu I.P., Bisen, D. P. & Brahme, N. (2016) Enhanced luminescence performance of $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$ blue long persistence phosphor by co-doping with Ce^{3+} ions, I.P. Sahu, **D.P. Bisen**, N. Brahme, R.K. Tamrakar, Journal of Materials Science: Materials in Electronics 27 (1), 554-569.
78. Upadhyay, K., Tamrakar, R.K., Robinson C.S., Sahu I.P. & Bisen D.P. (2016) Structural characterization and photoluminescence properties of pure and Ag (1–5%)-doped $(\text{Cd}_{0.95}\text{Zn}_{0.05})\text{S}$ phosphors synthesized by solid-state reaction methods, K. Uphadhyay, R. K. Tamrakar, C.S. Robinson, I.P. Sahu, **D.P. Bisen**, Taibah University.
79. G. Tiwari, N. Brahme, R. Sharma, **D.P. Bisen**, S.K. Sao, S.J. Dhoble (2016) A study on the luminescence properties of gamma-ray-irradiated white light emitting $\text{Ca}_2\text{Al}_2\text{SiO}_7:\text{Dy}^{3+}$ phosphors fabricated using a combustion-assisted method, RSC Advances 6 (55), 49317-49327.
80. R. k. Tamrakar, **D.P. Bisen**, K. Upadhyay, I.P. Sahu, M. Sahu (2016) The effect of annealing and irradiation dose on the thermoluminescence glow peak of a monoclinic $\text{Gd}_2\text{O}_3:\text{Yb}^{3+}$ phosphor, RSC Advances 6 (84), 80797-80807.
81. R.K. Tamrakar, **D.P. Bisen**, K. Upadhyay, I.P. Sahu, M. Sahu (2016) The down conversion properties of a $\text{Gd}_2\text{O}_3:\text{Er}^{3+}$ phosphor prepared via a combustion synthesis method, RSC Advances 6 (95), 92360-92370.
82. R.K. Tamrakar, **D.P. Bisen**, K. Upadhyay, I.P. Sahu (2016) Upconversion and colour tunability of $\text{Gd}_2\text{O}_3:\text{Er}^{3+}$ phosphor prepared by combustion synthesis method, Journal of Alloys and Compounds 655, 423-432.
83. R.K. Tamrakar, I.P. Sahu, C.S. Robinson, **D.P. Bisen**, K. Upadhyay (2016) Structural characterization and photoluminescence properties of pure and Ag (1–5%)-doped (Cd

- 0.95 Zn 0.5) S phosphors synthesized by solid-state reaction methods, Journal of Taibah University for Science 10 (1), 115-121.
84. R.K. Tamrakar, **D.P. Bisen**, K. Upadhyay, I.P. Sahu (2016) Comparative study of thermoluminescence behaviour of Gd₂O₃ phosphor synthesized by solid state reaction and combustion method with different exposure, Radiation Measurements 84, 41-54.
85. R.K. Tamrakar, **D.P. Bisen**, N. Brahme (2016), Structural characterization of Er³⁺, Yb³⁺- doped Gd₂O₃ phosphor, synthesized using the solid- state reaction method, and its luminescence behavior, The Journal of Biological and Chemical Luminescence 31 (1), 8-15.
86. M. Ziyauddin, S. Tigga, N. Brahme, **D.P. Bisen** (2016) Photoluminescence and thermoluminescence studies of CaAl₂O₄:Dy³⁺ phosphor, The Journal of Biological and Chemical Luminescence 31 (1), 76-80.
87. P. Chandrakar, R.N. Baghel, **D.P. Bisen**, B.P. Chandra (2016) Persistent luminescence of CaMgSi₂O₆:Eu²⁺, Dy³⁺ and CaMgSi₂O₆:Eu²⁺ Ce³⁺ phosphors prepared using the solid- state reaction method, The Journal of Biological and Chemical Luminescence 31 (1), 164-167.
88. I.P. Sahu, D.P. Bisen, N. Brahme, R.K. Tamrakar (2016) Studies on the luminescence behavior of SrCaMgSi₂O₇: Eu³⁺ phosphor by solid state reaction method, Journal of Materials Science: Materials in Electronics 27 (2), 1828-1839.
89. D.P. Bisen, R. Sharma (2016) Mechanoluminescence properties of SrAl₂O₄:Eu²⁺ phosphor by combustion synthesis, The Journal of Biological and Chemical Luminescence 31 (2), 394-400.
90. I.P. Sahu, D.P. Bisen, R.K. Tamrakar, R. Shrivastava (2016) Enhancement of the photoluminescence and long afterglow properties of Ca₂MgSi₂O₇:Eu²⁺ phosphor by Dy³⁺ co-doping, Research on Chemical Intermediates 42 (3), 1823-1843.
91. M. Kaur, D.P. Bisen, N. Brahme, P. Singh (2016) Investigation of thermoluminescence characteristics of Y₂O₃:Er³⁺ nanophosphors, Radiation protection dosimetry 173 (4), 293-301.
92. R.K. Tamrakar, K. Upadhyay, D.P. Bisen (2016) Variation in luminescence behavior of Yb³⁺ doped GdAlO₃ phosphor with gradual increase in Yb³⁺ concentration, Infrared Physics & Technology 75, 160-167.

93. S. Tigga, N. Brahme, D.P. Bisen (2016) Effect of gamma irradiation on thermoluminescence and fracto-mechanoluminescence properties of SrMgAl₁₀O₁₇:Eu²⁺ phosphor, *Optical Materials* 53, 109-115.
94. I.P. Sahu, D.P. Bisen, R. Sharma (2016) UV excited green luminescence of SrAl₂O₄:Eu²⁺, Dy³⁺ nanophosphor, *Research on Chemical Intermediates* 42 (4), 2791-2804.
95. I.P. Sahu, D.P. Bisen, N. Brahme, R.K. Tamrakar (2016) Luminescence behavior of europium activated strontium aluminate phosphors by solid state reaction method, *Journal of Materials Science: Materials in Electronics* 27 (4), 3443-3455.
96. I.P. Sahu, D.P. Bisen, N. Brahme (2016) Impulsive excitation of mechanoluminescence in europium activated strontium ortho-silicate phosphor, *Journal of Materials Science: Materials in Electronics* 27 (4), 3934-3940.
97. I.P. Sahu, D.P. Bisen, N. Brahme, R.K. Tamrakar (2016) Generation of white light from dysprosium-doped strontium aluminate phosphor by a solid-state reaction method, *Journal of Electronic Materials* 45 (4), 2222-2232.
98. K. Upadhyay, R.K. Tamrakar, D.P. Bisen, I.P. Sahu, M. Sahu (2016) Enhancement of photoluminescence behavior of Gd₂O₃:Er³⁺ phosphor by alkali metal, *Optik-International Journal for Light and Electron Optics* 127 (7), 3693-3697.
99. M. Kaur, D.P. Bisen, N. Brahme, P. Singh, I.P. Sahu (2016) Photoluminescence properties of rare- earth- doped (Er³⁺, Yb³⁺) Y₂O₃ nanophosphors by a combustion synthesis method, *The Journal of Biological and Chemical Luminescence* 31 (3), 728-737.
100. G. Tiwari, N. Brahme, R. Sharma, D.P. Bisen, S.K. Sao, M. Singh (2016) Fracto- mechanoluminescence and thermoluminescence properties of UV and γ - irradiated Ca₂Al₂SiO₇:Ce³⁺ phosphor, *The Journal of Biological and Chemical Luminescence* 31 (3), 793-801.
101. G. Tiwari, N. Brahme, R. Sharma, D.P. Bisen, S.K. Sao, U.K. Kurrey (2016) Enhanced long-persistence of Ca₂Al₂SiO₇:Ce³⁺ phosphors for mechanoluminescence and thermoluminescence dosimetry, *Journal of Materials Science: Materials in Electronics* 27 (6), 6399-6407.
102. P.B. Taunk, R. Das, D.P. Bisen, R.K. Tamrakar (2016) Synthesis and characterization of pure and Zn doped lead hydroxide nano structure through chemical

- root method, *Optik-International Journal for Light and Electron Optics* 127 (11), 4854-4858.
103. I.P. Sahu, D.P. Bisen, N. Brahme, R.K. Tamrakar, G. Banjare, P. Dewangan (2016) Luminescent properties of R⁺ doped Sr₂MgSi₂O₇:Eu³⁺ (R⁺= Li⁺, Na⁺ and K⁺) orange-red emitting phosphors, *Journal of Materials Science: Materials in Electronics* 27 (7), 6721-6734.
104. I.P. Sahu, D.P. Bisen, R.N. Baghel, K.V.R. Murthy (2016) Luminescence behavior of europium doped strontium magnesium silicate phosphor by solid state reaction method, *Journal of Materials Science: Materials in Electronics* 27 (7), 7573-7581.
105. P.B. Taunk, R. Das, D.P. Bisen, R. k. Tamrakar (2016) Optical and Structural characterization of pure and zinc-doped lead oxide nanostructures synthesized by chemical root method, *Optik-International Journal for Light and Electron Optics* 127 (15), 6028-6035.
106. G. Tiwari, N. Brahme, R. Sharma, D.P. Bisen, S.K. Sao, S. Tigga (2016) Luminescence properties of dysprosium doped di-calcium di-aluminium silicate phosphors, *Optical Materials* 58, 234-242.
107. R.K. Tamrakar, D.P. Bisen, I.P. Sahu, K. Upadhyay, M. Sahu (2016) Structural Characterization of Gd₂O₃ Phosphor Synthesized by Solid-State Reaction and Combustion Method Using X-Ray Diffraction and Transmission Electron Microscopic Techniques, *Journal of Display Technology* 12 (9), 921-927.
108. S.K. Sao, N. Brahme, D.P. Bisen, G. Tiwari (2016) Photoluminescence and thermoluminescence properties of Eu²⁺ doped and Eu²⁺, Dy³⁺ co- doped Ba₂MgSi₂O₇ phosphors, *The Journal of Biological and Chemical Luminescence* 31 (7), 1364-1371.
109. S. Tigga, N. Brahme, D.P. Bisen (2016) Investigations on luminescence behaviour of Ce- activated BaMgAl₁₀O₁₇ phosphor, *The Journal of Biological and Chemical Luminescence* 31 (7), 1306-1312.
110. I.P. Sahu, D.P. Bisen, R.K. Tamrakar (2016) Dysprosium-Doped Strontium Magnesium Silicate White Light Emitting Phosphor Prepared by Solid State Reaction Method, *Journal of Display Technology* 12 (11), 1478-1487.

111. G. Tiwari, N. Brahme, R. Sharma, D.P. Bisen, S.K. Sao, I.P. Sahu (2016) $\text{Ca}_2\text{Al}_2\text{SiO}_7:\text{Ce}^{3+}$ phosphors for mechanoluminescence dosimetry, *Luminescence* 31 (8), 1479-1487.
112. S.K. Sao, N. Brahme, D.P. Bisen, G. Tiwari, S.J. Dhoble (2016) Mechanoluminescence, thermoluminescence and photoluminescence studies of UV/ γ -irradiated $\text{Ba}_2\text{MgSi}_2\text{O}_7:\text{Dy}^{3+}$ phosphors, *Journal of Luminescence* 180, 306-314.
113. R.K. Tamrakar, K. Upadhyay, D.P. Bisen (2017) 3T1R model and tuning of thermoluminescence intensity by optimization of dopant concentration in monoclinic $\text{Gd}_2\text{O}_3:\text{Er}^{3+},\text{Yb}^{3+}$ co-doped phosphor, *Physical Chemistry Chemical Physics* 19 (22), 14680-14694.
114. I.P. Sahu, D.P. Bisen, K.V.R. Murthy, R.K. Tamrakar (2017) Studies on the luminescence properties of cerium co-doping on $\text{Ca}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$ phosphor by solid-state reaction method, *The Journal of Biological and Chemical Luminescence* 32 (7), 1263–1276.
115. R.K. Tamrakar, D.P. Bisen, K. Upadhyay (2017) Change in thermoluminescence behaviour of cubic $\text{Gd}_2\text{O}_3:\text{Yb}^{3+}$ phosphors with successive increase in Yb^{3+} ion concentrations, *Radiation Physics and Chemistry* 130, 321-334.
116. S. Tigga, N. Brahme, D.P. Bisen (2017) Photoluminescence and mechanoluminescence investigation of bluish-green afterglow $\text{SrMgAl}_{10}\text{O}_{17}:\text{Ce}^{3+}$ phosphor, *Journal of Materials Science: Materials in Electronics* 28 (6), 4750-4757.
117. G. Tiwari, N. Brahme, R. Sharma, D.P. Bisen, S.K. Sao, A. Khar (2017), Fractomechanoluminescence and thermoluminescence properties of orange-red emitting Eu^{3+} doped $\text{Ca}_2\text{Al}_2\text{SiO}_7$ phosphors, *Journal of Luminescence* 183, 89-96
118. I.P. Sahu, D.P. Bisen, R.K. Tamrakar, K.V.R. Murthy, M. Mohapatra (2017) Studies on the luminescence properties of $\text{CaZrO}_3:\text{Eu}^{3+}$ phosphors prepared by the solid state reaction method, *Journal of Science: Advanced Materials and Devices* 2 (1), 69-78
119. I.P. Sahu, D.P. Bisen, R.K. Tamrakar, K.V.R. Murthy, M. Mohapatra (2017) Luminescence studies on the europium doped strontium metasilicate phosphor prepared by solid state reaction method, *Journal of Science: Advanced Materials and Devices* 2 (1), 59-68.

120. R.K. Tamrakar, K. Upadhyay, I.P. Sahu, D.P. Bisen (2017) Tuning of photoluminescence emission properties of Eu^{3+} doped Gd_2O_3 by different excitations, *Optik-International Journal for Light and Electron Optics* 135, 281-289.
121. D. Pateria, R.N. Baghel, D.P. Bisen, P. Jha, V.K. Chandra, B.P. Chandra (2017) Synthesis, characterization and thermoluminescence studies of $(\text{ZnS})_{1-x}(\text{MnTe})_x$ nanophosphors, *Journal of Luminescence* 32 (3), 375-381.
122. S Sharma, N Brahme, DP Bisen, P Dewangan, S Tigga, G Tiwari, A Khare, (2018) Study on photoluminescence and thermoluminescence properties of UV-irradiated $\text{CaSrAl}_2\text{SiO}_7:\text{Ce}^{3+}$ phosphors, *Journal of Materials Science: Materials in Electronics* 29 (2), 1412-1419.
123. S Sharma, N Brahme, DP Bisen, P Dewangan (2018), Cool white light emission from Dy^{3+} activated alkaline alumino silicate phosphors, *Optics express* 26 (22), 29495-29508
124. P Dewangan, DP Bisen, N Brahme, RK Tamrakar, S Sharma, K Upadhyay, (2018), Growth and synthesis of $\text{Sr}_3\text{MgSi}_2\text{O}_8:\text{Dy}^{3+}$ nanorod arrays by a solid state reaction method, *Optical and Quantum Electronics* 50 (10), 367.
125. P Dewangan, DP Bisen, N Brahme, RK Tamrakar, K Upadhyay, S Sharma,(2018), Studies on thermoluminescence properties of alkaline earth silicate phosphors, *Journal of Alloys and Compounds* 735, 1383-1388.
126. B Verma, RN Baghel, DP Bisen, N Brahme, A Khare,(2019) Structural characterization and effects of Dy concentration on luminescent properties of BaMgSiO_4 phosphors, *Journal of Alloys and Compounds* 805, 663-672.
127. S Sharma, N Brahme, DP Bisen, P Dewangan, (2019) Luminescence properties of near-UV excitable yellow-orange light emitting warm $\text{CaSrAl}_2\text{SiO}_7:\text{Sm}^{3+}$ phosphors, *Journal of Rare Earths* 37 (4), 365-373.
128. P Dewangan, DP Bisen, N Brahme, S Sharma, (2019), Structural characterization and luminescence properties of Dy^{3+} doped $\text{Ca}_3\text{MgSi}_2\text{O}_8$ phosphors, *Journal of Alloys and Compounds* 777, 423-433
129. RK Tamrakar, K Upadhyay, DP Bisen, (2019), Correction: 3T1R model and tuning of thermoluminescence intensity by optimization of dopant concentration in monoclinic $\text{Gd}_2\text{O}_3:\text{Er}^{3+}; \text{Yb}^{3+}$ co-doped phosphor, *Physical Chemistry Chemical Physics* 21 (4), 2196-2196 .

130. BR Verma, RN Baghel, DP Bisen, S Ghosh, V Jena, (2019) Structural, Morphological and Luminescence Properties of Dy³⁺ Doped Calcium Magnesium Silicate Solid Materials, International Journal of Applied Engineering Research 14 (9), 2162-2166
131. P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, IP Sahu (2019), Thermoluminescence glow curve for UV induced Sr₃MgSi₂O₈ phosphor with its structural characterization, Journal of Materials Science: Materials in Electronics 30 (1), 771-777.
132. E Chandrawanshi, DP Bisen, N Brahme, G Banjare, T Richhariya, Y Patle, (2020), Photoluminescence and comparative thermoluminescence studies of UV/ γ -irradiated Dy³⁺ doped bismuth silicate phosphor, Journal of Materials Science: Materials in Electronics, 1-12.
133. T Richhariya, N Brahme, DP Bisen, A Choubey, Y Patle, (2020) A comparative photoluminescence and Judd–Ofelt study on alumino silicate phosphors, Journal of Materials Science: Materials in Electronics, 1-13.
134. B Verma, RN Baghel, DP Bisen, N Brahme, A Khare (2020), Synthesis and concentration dependent luminescent characterization of BaMgSiO₄: Eu³⁺ phosphor, Journal of Alloys and Compounds, 155326.
135. R Pandey, S Sharma, N Panwar, LK Dewangan, DK Ojha, DP Bisen, (2020), Stellar cores in the Sh 2-305 H ii region, The Astrophysical Journal 891 (1), 81.
136. P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, IP Sahu,(2020), Influence of Dy³⁺ concentration on spectroscopic behaviour of Sr₃MgSi₂O₈: Dy³⁺ phosphors, Journal of Alloys and Compounds 816, 152590.
137. G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble (2020), A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca₂Al₂SiO₇: Dy³⁺ phosphors fabricated using a combustion-assisted method (vol 6, pg 49317, 2016) RSC ADVANCES 10 (9), 5196-5201
138. IP Sahu, DP Bisen, N Brahme (2020), RETRACTION Structural characterization and optical properties of Ca₂MgSi₂O₇: Eu²⁺, Dy³⁺ phosphor by solid-state reaction method (Retraction of Vol 30, Pg 526, 2015), LUMINESCENCE 35 (1), 163-163

139. GR Banjare, DP Bisen, N Brahme, C Belodhiya, P Dewangan, (2020), Thermoluminescence studies of Dy³⁺-doped calcium barium orthosilicate codoped with Li⁺ ion, Journal of Thermal Analysis and Calorimetry 139 (3), 1577-1583
140. G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble,(2020), G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble, Correction and removal of expression of concern: A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca₂Al₂SiO₇: Dy³⁺ phosphors fabricated using, RSC Advances 10 (9), 5196-5201