

## BIODATA

- A. **Name** : Dr. D. P. Bisen  
B. **Date of Birth** : 11<sup>th</sup> 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	April 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:** 31 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- 156

(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 luminescence of alkali halides, *J. Luminescence*, 75, 127-133. DOI [https://doi.org/10.1016/S0022-2313\(97\)00108-7](https://doi.org/10.1016/S0022-2313(97)00108-7)
6. **Bisen, D. P.**, Mishra, A., Pandey, R. K., Mishra, M. P., & Chandra, B. P. (2000). Sensitizer dependence of the anti-stokes luminescence in YOCr :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. DOI <http://dx.doi.org/10.1016/j.jlumin.2011.01.002>
8. **Bisen, D. P.**, Mishra, A., Pandey, R. K., & Chandra, B. P. (2000). Anti stokes luminescence in Yb<sup>3+</sup> and Er<sup>3+</sup> 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<sup>3+</sup> 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. DOI <https://doi.org/10.1002/app.25278>
12. Upadhyay, P., Ramrakhiani, M., & **Bisen, D. P.** (2008). Photoluminescence and electroluminescence studies of polyvinyl Carbazole films, *Journals of Luminescence* 128, 1595-1600. DOI <https://doi.org/10.1016/j.jlumin.2008.03.010>
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  $\gamma$ -irradiated rare earth doped CaF<sub>2</sub> crystals, *Physics Procedia (Elsevier)* 2, 431-440. DOI <https://doi.org/10.1016/j.phpro.2009.07.028>

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 lyoluminescence 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  $\gamma$ -irradiated Er-doped  $\text{CaF}_2$  crystals, *Journal of Luminescence*, 131, 965–969. DOI <https://doi.org/10.1016/j.jlumin.2011.01.002>
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. DOI <http://dx.doi.org/10.1504/IJNP.2011.038253>
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. DOI <https://doi.org/10.1016/j.jlumin.2011.05.020>
24. Choubey, A. K., **Brahme, Nameeta, Bisen, D. P.,** & Sharma, Ravi. (2011). Mechanoluminescence and Thermoluminescence of  $\text{SrAl}_2\text{O}_4$ : Eu Nano-Phosphor, *The Open Nanoscience Journal*, 5, (Suppl 1-M3), 41-44. DOI <http://dx.doi.org/10.2174/1874140101105010041>
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. DOI <http://dx.doi.org/10.2174/1874140101105010034>
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. DOI <https://doi.org/10.1016/j.spmi.2015.07.043>

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<sub>2</sub>O<sub>3</sub> nanophosphors, *Physics Procedia*, pp 97 – 103. DOI <https://doi.org/10.1016/j.phpro.2012.03.698>
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31. Brahme, Nameeta, Shukla, M., Choubey, A. K., Kurrey, U., **Bisen, D. P.** & Dhoble, S. J. (2012). Mechanoluminescence and thermoluminescence of BaFCl: Sm<sup>2+</sup> and BaFBr: Sm<sup>2+</sup> crystals: **Radiation Effects & Defects in Solids**, Vol. 167 No.5, 326-332. [Impact factor: 0.66] [ISSN 1042-0150].  
DOI: <https://doi.org/10.1080/10420150.2012.669759>
32. Robinson, C. S., **Bisen, D. P.**, **Brahme, Nameeta**, & Tamrakar, Raunak. (2012). Thermoluminescence Study of ZrO<sub>2</sub>: Er<sup>3+</sup>, Yb<sup>3+</sup>, *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<sub>2</sub>O<sub>3</sub>:Er<sup>3+</sup>, Yb<sup>3+</sup>, *J. Pure Appl. & Ind. Phys.* Vol. 2 (3A), 348-314, [ISSN No. 2229-7596]. DOI <http://dx.doi.org/10.1016/j.radmeas.2015.11.006>
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  $\gamma$ -irradiated SrAl<sub>2</sub>O<sub>4</sub>: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 Er<sup>3+</sup>, Yb<sup>3+</sup> 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 Gd<sub>2</sub>O<sub>3</sub>: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<sub>2</sub>O<sub>3</sub> Nanophosphors, *Recent Research in Science and Technology*, 4(8): 80-81, [ISSN No. 2076-5061]. DOI <http://dx.doi.org/10.1016/j.phpro.2012.03.698>
43. Pateriya, Deepti, Baghel, R. N., **Bisen, D. P., & Chandra, B. P.** (2012). Determination of the Trap Depth of (ZnS)<sub>1-x</sub>(MnTe)<sub>x</sub> using Thermoluminescence, *Recent Research in Science and Technology*, 4(8): 87-88. [ISSN No. 2076-5061]. DOI <http://dx.doi.org/10.1002/bio.3189>
44. Brahme, Nameeta, **Bisen, D. P., & Kher, R. S.** (2012). Optical Properties of Calcium Aluminate Phosphors, *Mohmmad 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  $\text{Y}_2\text{O}_3$ : 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  $\text{Gd}_2\text{O}_3$  phosphor: *Res. Chem. Intermed (Springer)*, Vol 39, No. 2, [ISSN 0922-6168] [Impact factor: 1.540]. DOI <http://dx.doi.org/10.1007/s11164-013-1080-9>
49. Ziyauddin, Mohammad, Brahme, Nameeta **Bisen, D. P.** & Kher, R. S. (2013). Studies on Thermoluminescence (TL) from  $\text{BaAl}_2\text{O}_4$ : 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  $\gamma$ -ray irradiated  $\text{Dy}^{3+}$  activated  $\text{SrAl}_4\text{O}_7$  nanophosphor, ***Advanced Materials Letters* 5(7) 396-399**, Scopus publication **SCI Journal** . DOI <https://doi.org/10.5185/amlett.2014.amwc.1210>
51. Gupta, Anuradha, Brahme, Nameeta, & **Bisen, Durga, Prasad.** (26 June 2014). Electroluminescence and photoluminescence of rare earth (Eu, Tb) doped  $\text{Y}_2\text{O}_3$  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  $\text{Ca}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$ ,  $\text{Dy}^{3+}$  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]. DOI <http://dx.doi.org/10.1002/bio.2771>**

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54. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta. & Sharma, Ravi. (2014). Luminescence Properties of  $\text{Eu}^{2+}$  and  $\text{Dy}^{3+}$  Doped  $\text{Sr}_2\text{MgSi}_2\text{O}_7$  and  $\text{Ca}_2\text{MgSi}_2\text{O}_7$  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  $\text{Gd}_2\text{O}_3$  phosphor synthesized by combustion and solid state reaction method, **Journal of Radiation Research and Applied Sciences, Elsevier Publication [ISSN: 1687-8507]. DOI <https://doi.org/10.1016/j.jrras.2014.09.005>**
56. Tamrakar, Raunak, Kumar, **Bisen, Durga, Prasad,** Sahu, Ishwar, Prasad, & Brahme, Nameeta. (2014). UV and gamma ray induced thermoluminescence properties of cubic  $\text{Gd}_2\text{O}_3:\text{Er}^{3+}$  phosphor, **Journal of Radiation Research and Applied Sciences, [ISSN: 1687-8507]. DOI <http://dx.doi.org/10.1016/j.jrras.2014.07.003>**
57. Kaur, Manmeet, **Bisen, D. P.**, Brahme, N. & Singh, Prabhjot. (2014). Thermoluminescence property of  $\text{Y}_2\text{O}_3:\text{Yb}^{3+}$  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 ( $\text{Er}^{3+}$ ) and ytterbium doped ( $\text{Yb}^{3+}$ ) yttrium oxide nanophosphor prepared by combustion synthesis method, Journals of engineering computers and applied science, vol. 3, No 7, 25-28, [ISSN – 2319-5606].DOI <http://dx.doi.org/10.1111/j.1551-2916.2009.03194.x>



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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**].DOI <http://dx.doi.org/10.1002/bio.2801>
61. Sahu, Ishwar Prasad, **Bisen, D. P.**, Brahme, Nameeta, Patle, V. K. & Tamrakar, Raunak. (2014). Characterization Techniques and Mechanoluminescence Properties of Sr<sub>2</sub>SiO<sub>4</sub>:Eu<sup>2+</sup> Phosphor by Solid State Reaction Method, *Research Journal of Science and Technology*, 6(3), 147-150, [ISSN 0975-4393], [(Print) 2349-2988 (Online)].
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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 ZrO<sub>2</sub>:Ti phosphor, 2015. DOI <http://dx.doi.org/10.1016/j.jrras.2014.10.005>.

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69. Sahu, Ishwar, Prasad, **Bisen, D. P.**, Brahme, Nameeta, Wanjari, Lata. & Tamrakar, Raunak, Kumar. (2015). Structural Characterization and Luminescence Properties of Bluish-Green Emitting SrCaMgSi<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup>, Dy<sup>3+</sup> 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].
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