

BRIEF PROFILE (Dr. Purna Bose)



Name

Dr. Purna Bose

Qualification

Degree	University/Board	Subjects	Year/Division
1. Hr. Sec.	Central Board of Secondary Education, Delhi.	Physics, Chemistry, Maths, Sanskrit & English.	1973- 1st
2. B.Sc. (Hons.)	University of Rajasthan, Jaipur, India.	Physics(Hons.), Chemistry, & Maths.	1976-- 1st, 5th Position in merit of all subjects
3. M. Sc.	University of Rajasthan, Jaipur, India.	Physics	1978-- 1st
4. Ph.D.	Pt. Ravishankar Shukla University, Raipur, India	Solid State Physics	2002

Got UGC Research Fellowship for research but did not accept it, joined as an Asstt. Prof.

Designation

Professor & HOD (Physics),

Govt V.Y.T. P.G., Autonomous College,

Durg. (C.G.)

E.mail :

purna_bose@hotmail.com

Specialization in P.G.

Plasma Physics,.

Specialization in Research

Material Science (Photoconductivity,
Thin film, Nanomaterial)

Two student got Ph.D under Prof. Purna Bose

1. Smt. Rajni Singh 2. Smt. Neelam Shukla

Teaching Experience U.G.

35 Years

Teaching Experience P.G.

19 Years

S.No	Name of the college/University	Period	Duration
1	Govt. College, Banswara, Rajasthan.	15/1/1979 to 14/6/79	5 months
2.	Govt. College Tonk, Rajasthan.	.24/8/1979 to J2/7/80 17/9/80-5/1/81	1 year 6 months, 8months.
3	University of Rajasthan, Maharani s College, Jaipur,	6/1/1981 to 23/5/83	1 Year 8 months
4.	Govt. NCJ College, Dalli Rajhara, Durg, C.G.	9/10/1985 to 19 th August 1997	12 years
5.	Govt. V.Y.T.P.G.Auto. College,Durg,C.G.	2o August 1997 till date	19 years

Faculty Achievement :

1. Member of Board of Studies of SOS of Phy. Pt . Ravi Sankar Shukla Univ. since 2014-15,2015-16,2016-17.

2. Member of Board of Studies of Kalyan College,Bhilai for the session 2013-14,2014-15,& 2015-16, 2015-16, 2016-17.

3. Chairperson of Board of Studies of Hemchand Yadav University since 2014-15.

Resource Person in National Conferences – 02,

Lecture delivered at Kalyan College, Bhilainagar on "Modern Aspect of Thin Film of (Cd-Pb)S Deposition" on 9/9/2011..

Detail of Research (In brief)

Photoconductivity Studies of

(Cd-Pb)S mixed based and doped films

Supervision for Ph.D.

00 Ph.D. thesis Awarded

Research Publications

Total Research Papers Published – 18

National Conferences- 9

Detail of Research Project

(i) One Minor Research Project funded by UGC

Entitled: "Studies of photoconductivity and some other properties of Chemically deposited undoped and rare earth doped films"

Project No.- 4S/11/20014-2005/(MRP-CRO)/202008/31-03-2005

Duration: 2 years

Amount: 60,000/-,

Status- Completed

(ii) One Minor Research Project funded by UGC

Entitled: "Photoconductivity gain, XRD and SEM studies of mixed base and rare earth doped films by chemical both deposition method."

Project No.-121/202008/09-10/CRO/31-03-2010

Duration: 2 years

Amount: 1, 30,000/- , Status- Completed

Research Papers Published in Journals

1. Mukherjee M., Bose P. and Bhushan S., Radiation, Effects & Defects in Solids (Gordon & Breach, USA) 153(2001)367-377.
"Photoconductivity of chemically deposited La/Nd doped (Cd-Pb)S films".
2. Bose P., Mukherjee M. and Bhushan S. "Electro-optical studies in chemically deposited Sm/Pr doped (Cd-Pb)S films" Vol.39 (Dec. 2001) 804-809. Indian Journal of Pure and Applied Physics.
3. Mukherjee M., Bose P. and Bhushan S., "Electro-optical studies in chemically deposited La/Nd doped (Cd-Pb) S films", J. Mat. Sc. 13, (2002) 581-584.
4. Bose P. and Bhushan S.: "Effect of annealing on some (Cd-Pb)S photoconducting films", J. of Ravishankar University, 14 (2001) 41-52. ISSN 0970-5910.
5. Mukherjee M., Bose P. and Bhushan S, Indian Journal of Pure and Applied Physics, Effect of CdCl₂ on the photoconductivity of chemically deposited neodymium doped (Cd-Pb)S films, 2003, Vol.22, 51-57
6. Bose P. "Opto electrical studies of rare earth doped (Cd-Pb)S films", Ultra Scientist of Physical Sciences, 18(3), 375-380 (2006).
7. Bose P.: "Photoconductivity, XRD and SEM Studies of Gd(NO₃)₃ doped (Cd-Pb)S films of different concentration", SHODH AMISKHA AUR MULYANKAN , II (9-10), 1-2 (Oct. Nov. 2009) ISSN 0974-2832.
8. Bose P. , "Photoluminance, XRD and SEM Studies of rare earth doped (Cd-Pb)S films", Ultra Scientist Of Physical Sciences, 22(1), 35-38 (2010).
9. Oudhia A., Bose P., Vishakarma V., Shukla N.,: Exitonic Photoluminescence Emission of Chemically Deposited CdS_xSe_{1-x} Films, Calcogenide Letters, 7(7)pp491-496(July 2010).
10. Bose P., Oudhia A., Shukla N Growth and optical properties of nanowires. Recent Research in Sc. and Technology, 2012, 4(8):135-137, ISSN-2076-5061.
11. Shukla N , Oudhia A., Bose P., Effect of the seed layer modification and pH on alignment and density of ZnO nanowires, International journal of Enggg. And technology, management of applied sciences, (IJETMAS) July 2015, vol.3, Issue-7, ISSN 2349-4476, impact factor -2.24.

12. Oudhia A., Bose P., Shukla N., Pateria M., Bichpuria P., IJRSE, "Role of Pb^{2+} ions as the growth and Structure directing agent in (Cd-Pb)S solid solutions". Vol No..4, Sp Issue No. (01), Dec.(2015)pp.63-73. ISSN 2319-8354.

13. Shukla N., Oudhia A., Bose P., IJRSE, "Optical property of Eu doped ZnO nanowire prepared by wet chemical method on glass substrate". Vol No..4, Sp Issue No. (01), Dec.(2015)pp.48-52. ISSN 2319-8354.

14. Shukla N., Oudhia A., Bose P., Gupta S., "Application of Europium doped ZnO nanowires as a photocatalist", GE-IJER, Vol.4, Issue 4, April 2016, ISSN: 2321-1717.

15. Kaur J., Singh R., Bose P., Parganiha Y., Shrivastava R., Dubey V., Journal of display Technology, "Estimation of color purity and trapping parameters of samarium doped $BaTiO_3$ phosphor", - Vol.-12, Issue; 6, 2016.

16. Oudhia A., Shukla N., Bose P., Lalwani R., Choudhury A., "Effect of various synthesis protocol on doping profile of ZnO:Eu Nanowires" Nano Structures & Nano-Objects, 7(2016) pp.69-74.

Paper Published in Seminars / Conferences/Proceedings:-

1. Proceeding of DAE (Department of Atomic Energy) Solid State Physics Symposium held at IGCAR, Kalpakkam, T.N. during Dec.20-24, 1999 vol. 42, pp. 441-443.

"Photoconductivity of chemically deposited undoped and Sm/Pr doped (Cd-Pb)S films".

2. DAE-BNRS Symposium. on spectroscopy of Lanthanides and Actinides (SLA-99) held at BARC, Mumbai during Nov.16-19, 1999.

3. National Conference on semiconductor materials and recent technologies held at Pant University, Pantnagar, U.P. during Nov.1-3, 1999.

"Photoconductivity of chemically deposited undoped and La/Nd doped (Cd-Pb)S films".

4. Paper presented at Nat. Seminar on Luminescence and its applications held at Rani Durgavati University, Jabalpur, M.P. during 16-18th Dec. 2001, pp 82-86.

"Photoluminescence in La/Nd doped (Cd-Pb)S films".

5. Paper accepted for presentation in National Workshop on synthesis, Characterization and applications of materials held at National Physical Laboratory, New Delhi during Feb. 6-7.

6. Paper accepted for oral presentation in the 23rd Rare Earth Research Conference (RERC) held during July 13-18, 2002 at Davis, California, USA.

7. Paper presented (invited talk) at the Seminar of St Thomas College, Bhilai on October-5, 2004 on "Nanotechnology".

8. Paper presented at a Seminar on Role of Physics in Technical Education held at SSCET College, Junwani, Bhilai on 19th April 2005,
Bose P., "Effect of annealing on some (Cd-Pb)S photoconducting films".

9. Paper presented and published in the proceeding of National Conference on Recent Trends in Physics of Solids held Govt. Science College, Durg on 11th-12th October, 2011.

Bose P., Oudhia A., Shukla N., "Optical and physical properties of bulk and nanocrystalline chemically deposited thin film", pp53-55, ISBN-978-93-81583-24-1.

10. Paper presented at NLSA held at Pt. RSSU, Raipur In 2011

. Choubey P.C., Oudhia A., Bose P., Pandey P., Shukla N. and Vishwakarma V..

'PHOTOLUMINESCENCE STUDIES OF RARE EARTH DOPED II-VI COMPOUNDS PREPARED BY MICROWAVE ADDED SYNTHESIS'.

11. Paper presented at National Seminar on Energy Harvesting Materials and Techniques for Sustainable Development held at Govt. V.Y.T. P.G. Autonomous College, Durg on 2nd – 3rd Dec., 2015.

Oudhia A., Bose P., Shukla N., Pateria M., "Role of Pb²⁺ ions as the growth and Structure directing agent in (Cd-Pb)S solid solution" pp.75 (2015).