



DR. NITA BHARAT SHINDE

DESIGNATION: ASSISTANT PROFESSOR, DEPARTMENT OF PHYSICS

ACADEMIC QUALIFICATION: M.Sc., Ph.D., MH-SET

WORK EXPERIENCE: 15 YEARS

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS

- “Effect of Ce^{3+} ion on Dy^{3+} or Mn^{2+} in $KMgSO_4Cl$ synthesized by centrifuge method”. J. lumin.172 (2016)131, Impact factor 2.693
- “Photoluminescence enhancement in $Na_3SO_4Cl: X$ ($X= Ce^{3+}$, Eu^{3+} or Dy^{3+}) material”, J. of biological & chemical Lumi., 2840(2014) 6, Impact factor 1.67
- “Thermoluminescence (TL) characteristics of $Na_3SO_4Cl: X$ ($X = Ce, Dy, Mn$) Phosphor”, Radia. Effects and Defect, 169:4(2014)361, Impact factor 1.7
- “Photoluminescence and Spectroscopic studies of $Ce^{3+} - Mn^{2+}$ in Na_3SO_4Cl Chlorosulphate Phosphor”. Bionano Frontier,5(2-III) (2012)61. Impact factor 0.2
- “Comparative study of Ce^{3+} activated Chlorosulphate Phosphors”.
- Recent research in Science and Techno.ISSN: 2076-5061, 4 - (8) (2012)128, Impact factor ISSN: 2076-5061

PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES

- “Comparative study of Ce^{3+} activated chlorosulphate phosphors”, Art and Commerce Girls College, Raipur, National conference on novel material and their Applications- 16-17 Oct.2012
- Photoluminescence and spectroscopic studies of $Ce^{3+} \rightarrow Mn^{2+}$ in Na_3SO_4Cl Chlorosulphate, RTMNU ,Physics Department,Nagpur, young Scientist award Meet Proceedings- 2012
- Thermoluminescence in $Na_3SO_4Cl:Eu,Dy$ phosphor prepared by WCM Method”, VMV Commerce, JMT Arts,and JP Science college, Nagpur. synthesis and Applications of Novel materials ISSN-2229-4554-1219.05 Oct 2013

- “Photoluminescence and spectroscopic studies of $Ce^{3+} \rightarrow Mn^{2+}$ in Na_3SO_4Cl chlorosulphate”. Sevalal Mahila Mahavidyalaya, Nagpur, II nd world congress for man and nature-2012"Global change :Impact on Biodiversity,Culture& Technology, Vol-5(2-III) (2012)61-62, Nov 2012
- “Photoluminescence of $Na_3SO_4Cl: Ce$ prepared by WCM and SSD Methods:A comparative Study”. SSE,s Amst,s Science College ,Congress Nagar Nagpur, Nanomaterials , New Horision for betterment of mankind, proceedings- Feb 2013
- “Evaluation of traping parameters in $Na_3SO_4Cl : Mn$ chlorosulphate”, RTMNU ,Physics Department,Nagpur, Ramanujan Coference ,Nagpur, proceedings-2013.
- “Photoluminescence of $Na_6 (SO_4)_2F Cl: Eu^{3+}$ prepared by WCM , Arts Science and Commerce College Koradi, Nagpur, Novel synthesis of advanced materials, ISBN-978-93-82962-51-9.11 Oct 2014
- “Photoluminescence of $Na_6 (SO_4)_2F Cl:X (X=Ce^{3+})$ prepared by WCM”., RTMNU ,Physics Department,Nagpur, Ramanujan Coference 2014-15, Nagpur. , proceedings-2014.
- “Evaluation of trapping parameters in $Na_3SO_4Cl: Ce$ phosphor”. Rani Durgawati vishwavidyalaya and Luminescence society of India, National conference of Luminescence and its applications, Jablpur. India, proceedings-2014.
- PL in $Na_6(SO_4)_2FCl:Eu^{3+}$ phosphor synthesized by centrifuge method”, Dhote Bandhu Science college Gondia, Recent development in Science and Technology RDMST-2014, proceedings-2014
- Thermoluminescence Properties Of Cu Doped Na_3SO_4Cl Phosphor”. Nabira Mahavidyalaya, Katol., National conference on advanced materials held (NCAM-2014), ISBN-978981432-709, Mar. 2014
- Thermoluminescence Properties Of Cu Doped Na_3SO_4Cl Phosphor”. RTMNU ,Physics Department,Nagpur, National Symposium for Research Scholors on Rescent advances in Physics and Materials Science, (RAMPS -2014)Proceeding-2014
- “Investigation of photoluminescence in $KMgSO_4Cl:Eu^{3+}$ phosphor”. PES university Bengaluru , International Conference on luminescence and its Applications proceedings- Feb 2015
- “Synthesis and photoluminescence characteristics of $KMgSO_4Cl:Cu^+$ for near-UV white LEDs.” RTMNU , Nagpur, National Conference on luminescence and its Applications , Feb 2016,

- “Glow curve analysis of gamma-particles irradiated $\text{KMgSO}_4\text{Cl}:\text{Cu}^+$ phosphor.” RTMNU, Nagpur, National Conference on luminescence and its Applications - Feb 2016
- . “Photoluminescence in $\text{Na}_{21}(\text{SO}_4)_7\text{F}_6\text{Cl}:\text{Ce}^{3+}$ Chlorosulphate Phosphor” , Fergusson College Pune, Bhartiya Vigyan Sammelan and Expo Proceeding - May 2017
- Spectroscopic studies of Ce^{3+} in $\text{Na}_6(\text{SO}_4)_2\text{FCl}$ chlorosulphate phosphor. K.D.K. college of Engineering, Nagpur. AIP conference proceedings- 2018, Multidimensional role of basic sciences in advance technology ICMBAT-2018
- . “Luminescence study of Ce^{3+} and D^{y3+} activated KZnSO_4Cl chlorosulphate phosphor., Department of Physics NIT Raipur And Department of physics Government N.S. College , Raipur, International conference on luminescence and applications, ICLA conference proceedings- Jan. 2019
- “Eco Friendly LED Lighting for Organizations” National Conference on Clean Earth and Green Earth, LAD & Smt RP College for Women, Nagpur, FEB-2024
- “Synthesis and Spectroscopic Study of Novel Phosphor for LED Applications”, P. S. G. V. P. Mandal’s S. I. Patil Arts, G. B. Patel Science and S. T. K. V. Sangh Commerce College, Shahada, Nandurbar 425409, India, National Conference on Recent Innovations in science and Technology. (RIST-2024)

OTHER RECOGNITIONS & ACCOLADES

- Consolation prize at UGC sponsored National Conference ,Gondia Education Society’s Dhote Bandhu Science College, Gondia Dec-2014

INVITED AS A RESOURCE PERSON

- Resource Person, Hands on training on Colour Chromaticity Calculator for PL spectra of Phosphor, Anand Niketan College Warora, Dist Chandrapur, August 2022.
- Conducted a session on Resume Writing at VMV Commerce, JMT Arts and JJP Science College, Nagpur 2021.
- Conducted workshop for B.Sc. II Year students on Physics Practical Workshop. at VMV Commerce, JMT Arts and JJP Science College, Nagpur 2021.
- Set up Physics laboratory for first year at G. H. Raisoni polytechnic Jalgaon. 2009-2010.

CONTRIBUTION AT UNIVERSITY LEVEL

- Co-Guided M.Sc. Sem IV projects, at VMV Commerce, JMT Arts and JJP Science College, Nagpur from 2021-2022
- Served as Internal Examiner for B.Sc. H.Sc. II year Sem-IV practical examination, L.A.D. College, Nagpur, Summer 2024.

ORIENTATION COURSES, REFRESHER COURSES, WORKSHOPS

- Participated in one-day workshop on Restructuring Physics TYBSc Practical syllabus Ahmednagar College of Ahmednagar, 17 Jan. 2004.
- Participated in 2 days Faculty induction training Program at G.H. Raisori Academy for excellence, Pvt Ltd Jalgaon 12-13, Sept 2009
- Attended 2 days FDP on Latest trend in teaching learning Process - A new approach, Dr. Babasaheb Ambedkars College of Engg. & Resenech, Hingha, Nagpur, 30-31 Dec. 2014
- Participated STTP on Research Methodology, Priyadarshini College of Engg., Nagpur 8&13 June. 2015.
- Participated in two weeks ISTE short term training Program Engg. Physics, Indian institute of Bombay at PCE, Nagpur, 8-16 Dec. 2015.
- Participated in Use of ICT in education for online & blended learning MHRD Priyadarshini college of Engg Nagpur & IIT Bombay 2-10 July 2016.
- Participated in Research methodology & Statistics workshop, Dept of physics RTMNU, Nagpur 28 Nov- 3 Dec. 2016.
- Attended one-day workshop on NPTEL, Priyadarshini College of Engineering, Nagpur 24 Sep. 2016.
- Attended one day FDP Honoring Language Skill using language lab Priyadarshini College of Engg. Nagpur. (Humanities Dept), 2018.
- Completed workshop on Train the trainers, learners Edge workshop, VMV commerce JMT Arts & JJP sci college Nagpur 07-12 Mar. 2022.
- Attended one week FDP & FIP at L.A.D. & Smt. R.P. College for Women, Nagpur, on student centric methodology and interactive teaching strategies using interactive tools 09-13 Oct. 2023.