

PROFILE



Name:	Dr. (Smt.) Siteshwari Chandraker
Qualification:	M. Sc., M. Phil and Ph. D.
Designation:	Assistant Professor (Physics)
Date of Joining:	22.11.2012
Mode:	Regular (PSC Selected)
Specialization in P.G.:	Electronics
M. Phil Dissertation:	“Photo Conducting Studies on Chemically Deposited Copper Doped Films of CdS”
Ph.D. Award	29.07.2022
Ph.D. Topic:	“STUDIES ON PHOTOLUMINESCENCE & THERMOLUMINESCENCE OF $M_2ZnSi_2O_7$ (M: Sr, Ca, Ba) DOPED WITH Dy^{3+}”
Ph.D. Research Guide	24.01.2024
Teaching Experience:	12 Years
Seminar Attended:	21
Orientation and Refresher Program:	01+03
FDP and STTP Attended	16
Patent	01
Book Chapter Writing	02
Minor Research Project	01

Achievement**Vice President in Govt.V.Y.T. PG****Autonomous College Durg (2005-06),****Department M.Sc.Topper,****Co-Curricular****National Hockey Player,****State Badminton Player****E Mail Id****siteanil.ayush@gmail.com****PUBLICATIONS:****Papers Published**

1. A.K. Misra , B.P. Singh, **Siteshwari Chandraker**, K.K. Pandey, P.K. Tripathi, J.K. Saluja and R. Manohar Faster Response and Lesser Threshold Voltage of Strontium Hardystonite (Sr-HT) Nematic Liquid Crystal: Photoluminescence and Optical Study **Optical Materials 93 (2019) 19-24**
2. Siteshwari Chandraker, Jagjeet Kaur , Vikas Dubey and Neha Dubey “Composite nature of thermo luminescence studies in Dy³⁺ activated Sr₂ZnSi₂O₇ phosphor” Optic International Journal for Light and Electron Optics 241 (2021) 166904, 28 April 2021
3. Siteshwari Chandraker and Jagjeet Kaur Saluja “Review article on Characterization Techniques and Optical Properties of Luminescent Materials” International Journal of Science Technology and Management Volume No. 10,Special Issue No. 01, April 2021, Queens of ERA- 2021.
4. Siteshwari Chandraker, Jagjeet Kaur, Ruby Priya, Vikas Dubey and Neha Dubey “White light emission and thermoluminescence studies of Dy³⁺-activated hardystonite (Ca₂ZnSi₂O₇) phosphor” Luminescence Willey Journal of Biological and Chemical Luminescence DOI 10.1002/bio.4095. 25 May-2021.
5. Siteshwari Chandraker, Jagjeet Kaur and Vikas Dubey Determination of spectroscopic parameters and Thermoluminescence studies of Dy³⁺ activated Ba₂ZnSi₂O₇ accepted in

Papers presented in Conferences, Seminars, Workshops, Symposia

1. **Siteshwari Chandraker**, R. Sahu, M. Parganiha and J. Kaur, White Light Emission of Dysprosium (III) doped $\text{Sr}_2\text{ZnSi}_2\text{O}_7$ phosphor Poster presentation in ICLA -2019 held at Raipur on January 7 to 10, 2019, Poster presentation.
2. Aurdino Workshop attended in Physics Department Govt VYTPG College Durg.
3. Participated in National Conference on Recent Advances in Physical Sciences 18/19 November 2019 Govt. KDR Girls PG College Rajnandgaon.
4. Oral presentation in National Conference on Advanced Material and Applications 2019, Dec 21-22 NIT Raipur “Preparation and Crystal Structure analysis of Dysprosium (III) doped $\text{Sr}_2\text{ZnSi}_2\text{O}_7$ ”.
5. Oral presentation in International conference on January 30-31 2020 BIT Raipur.
6. Oral presentation in National Conference at NIT Warangal on Feb10-13 2020
7. Attended many International and National conference on online mode
8. Paper Presentation on International Conference on Queens of ERA – 2021.
9. PPT Presentation on Hemchand Yadav University Durg on the Topic “Water Conversion” 3 june 2021 on Occasion of world Environment day.
10. Poster presentation on the topic “ Thermoluminescence studies on Phosphor” at National Conference On Signal Processing, Sustainable Energy Materials and Astronomy &Astrophysics, March 16th – 18th, 2023 Raipur.
11. Poster presentation entitled “Photoluminescence properties of Borate based $\text{YBa}_3\text{B}_9\text{O}_{18}$ rare Earth Eu^{3+} & Mn^{2+} doped phosphor” in 7th International Conference on Luminescence an its Applications (ICLA) 3- 6th July 2023 Organised byCSIR-IICT, Hyderabad & LSI.
12. FDP On “Indian Knowledge system” held from 20th -27th September, 2023 by Govt. V.Y.T.PG Autonomous College Durg (C.G.)
13. Oral presentation in ICRTSE 8th -10th feb 2024 organised by Govt. V.Y.T.PG Autonomous College Durg (C.G.) ,collaboration with IIT Bhilai.

Invited Technical Talk (ITT)

1. **Invited Technical Talk On NCLA-2024, 28-30th August Organized by Department of Physics North Eastern Hill University, Shillong, Meghalaya, In Association with Luminescence Society of India**

Invited Lecture

1. Invited Lecture on **Polarization of Light**, BMM Bhilai on dated 17 January 2020.
2. Invited Lecture on Fraunhofer Diffraction on Govt.College Vaishali Nager Durg 28 April 2021.
3. Invited Lecture on “LASER and It’s Application” at Govt .Nehru PG College Dongargadh, Distt. Rajnandgaon 20 July 2021.
4. Invited Lecture on “Logic Family “ at Govt. Ghanshyam PG College Balod 02 September 2023.

Minor Research Project

1. Synthesis and characterization of Borate based ($\text{YBa}_3\text{B}_9\text{O}_{18}$, $\text{EuBa}_3\text{B}_9\text{O}_{18}$)rare earth doped phosphors for display and bio-imaging devices application. Sponsored by Govt.V.Y.T.PG Autonomous College Durg (C.G.) 49100. Section Amount **50,000.00** /- (Fifty thousand rupees),
Completed