

Curriculum -Vitae

Dr. Gulab Singh

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Nationality: Indian

○ Academic qualification

S. No.	Degree	Field(s)	University/institution	Marks (%)
1.	B.Sc.	Physics, Electronics, Mathematics	University of Allahabad	60.38
2.	M.Sc.	Physics	University of Allahabad	69.38
3.	D.Phil.	Multiferroic Materials	University of Allahabad	----

○ **Ph.D. thesis title:** *Multiferroic properties of composite thin films and bulk nanostructures*

Date of submission of thesis: 22th April 2019.

Date of award of D.Phil. Degree: **20th August 2019**

○ **Fellowship/Awards:** UGC fellowship for pursuing Ph.D.

○ **Publications**

International Refereed journals

1. *High-temperature phase transitions in SrHfO₃: A Raman scattering*, Manoj K Singh, **Gulab Singh**, T H Kim, S Kojima, R S Katiyar, **Euro physics Letters** 107,26004 (2014), ISSN No.1286-4854
2. *Multiferroics properties in BiFeO₃/CoFe₂O₄ heterostructures thin films deposited (111) SrTiO₃*, **Gulab Singh**, Manoj K Singh, A. Kumar, S. Dussan, R.S Katiyar, **AIP Conf. Proc.** 1731, 080043 (2016.) ISSN NO. 1551-7616
3. *Raman Spectra and dielectric studies in Ti Substituted Bi₂ (Zn₂/3Nb₄/3)O₇ Pyrochlores*, A Kumar, Manoj K. Singh, **Gulab Singh**, KCJ Raju, **AIP Conf. Proc.** 1731, 090033 (2016).
4. *Investigation of Fractal feature of Multiferroic BiFeO₃ Thin Films Deposited on Different Substrates*, **Gulab Singh**, R. P. Yadav, H. P. Bhasker, Manvendra Kumar, Parasmani Rajput, P. N. Rao, S. K Rai, Manoj K. Singh, **Material Research Express** 5 (12), 126405 (2018). ISSN No. 2053-1591
5. *Dielectric, Magnetic and Magneto-dielectric properties of (La,Co) co-doped BiFeO₃*, **Gulab Singh**, HP Bhasker, RP Yadav, Aditya Kumar, B.Khan, Ashok Kumar, **Physica Scripta**, 94 (12) ,125805 (2019), ISSN NO. 1402-4896
6. *Magneto-dielectric and multiferroic properties in Bi_{0.95}Yb_{0.05}Fe_{0.95}Co_{0.05}O₃*, **Gulab Singh**, H. P. Bhasker, R. P. Yadav, Aditya Kumar, Bushra Khan Ashok Kumar, and Manoj K Singh, **Physica Scripta** 94(6), 065802 (2019), ISSN NO 1402-4896
7. *Synthesis and characterization of [BaO_(10-x)ZrO₂-20TiO₂-xCrO₃] type glass and glass ceramics* Zaireen Fatima, Ajaz Hussain, Chandki Ram Gautum , Shweta , Prakash Singh , Afroz Ahmed, **Gulab Singh** , Manoj kumar Singh ,**Journal of Asian Ceramics Society** 8(4),1108 (2020) ISSN NO. 2187-0764

8. *Structural, microstructure, optical, and electrical properties of Ti-doped CaSnO₃ prepared by Sol-Gel chemical route*, Aditya Kumar, Bushra Khan, **Gulab Singh**, Ambesh Dixit, Upendra Kumar, Manoj K Singh, **Physica Scripta**, 95,105807, (2020), ISSN NO 1402-4896
9. *Magnetic properties and Magneto-resistance in Li_{0.1}Bi_{0.9}MnO₃/SrTiO₃ (100) thin films*, Bushra Khan, Aditya Kumar, Preeti Yadav, **Gulab Singh**, Manoj K Singh **AIP Conf. Proc.** 2265, 030301(2020), ISSN NO. 1551-7616
10. *Structural, Optical and Electrical Properties of CaSnO₃ and Ca_{0.98}Nd_{0.02}Sn_{0.98}Ti_{0.02}O₃ Synthesized using Sol-Gel Method*, Aditya Kumar, Bushra Khan, **Gulab Singh**, Ambesh Dixit, Manoj Kumar Singh, **Advanced Materials Letters** 13(3),21031611(2021) ISSN NO. 0976-3961
11. *Structural, dielectric, magnetic and magneto-dielectric properties of (1-x)BiFeO₃–(x)CaTiO₃ composites* Bushra Khan, **Gulab Singh**, Aditya Kumar, Ashok Kumar Manoj Kumar Singh, **J Mater Sci: Mater Electron** 32,18012,-18027(2021) ISSN No. 1573-4803
12. *Optical properties, dielectric relaxer behaviour, impedance and modulus spectroscopy of 0.8BiFeO₃-0.2CaTiO₃ composite*, Bushra Khan, Manoj K Singh, Preeti Yadav, Aditya Kumar, **Gulab Singh**, **Material Chemistry & Physics**, 126642 (2022), ISSN No. 0254-084
13. *Temperature-dependent electrical and magneto-dielectric properties of 0.7Bi_{0.99}Nd_{0.01}Fe_{0.99}(Co, Ti)_{0.01}O₃-0.3CaTiO₃ composite*, MKS, Bushra Khan, Aditya Kumar, Arushi Pandey, **Gulab Singh**, Ashok Kumar, **Ferroelectric** 589 (1), 235-242 (2022), ISSN No. 0015-0193
14. *Synthesis and Characterization of Cobalt doped Zinc Ferrite for its Structural and Magnetic Properties*, Avinash Chand Yadav Prabhat Ranjan Tiwari, **Gulab Singh**, Parasmani Rajput, Manvendra Kumar and Santosh Kumar, **Asian Journal of Chemistry** 35(10),2461-2467(2023), ISSN No. 0970-7077
15. *Synthesis and Characterization of Manganese Doped Zinc Ferrite for its Structural and Magnetic Properties*, Avinash Chand Yadav, Prabhat Ranjan Tiwari, Rahul Pratap Singh, **Gulab Singh**, Ajaz Hussain, Mukul Gupta, Aartee Sharma, Manvendra Kumar, Santosh Kumar, **Iranian Journal of Science** 2023, 48,269-280, ISSN No. 2731-8109

Book Chapter

16. *Thermoacoustical and Volumetric investigation for Poly Ethylene Glycol Butyl Ether with 1-butanol ,2-methylamino-ethanol: The Experimental and Numerical Investigation*, Manisha Gupta Ajaz Hussain, Laxmi Kumari, Sudhir Kumar, Sachin Gupta, Abhishek Mishra, **Gulab Singh**, Imran, **Recent Research Trends in Engineering and Science**,1,143-158(2023). ISSN No. ISBN No. 978-93-86739-73-5

1. Research skills/Laboratories Experience ~10 years

- Material Synthesis: Solid State Method, Sol-Gel technique and Pulse Laser Deposition
- Surface & Structural characterization: SEM, AFM, and XRD.
- Crystal Structural Analysis: using software's Match, Vesta and Material Project
- Magnetic Measurements, Magneto-dielectric, and Dielectric, Electrical Measurement.
- Spectroscopic techniques: Raman, Impedance Analyser (Nova Controller).

2. Academic /Administrative services to the College

- Member: Admission Committee
- Member: Digi Shakti Scheme
- Member: Vocational/Co-curricular Course

3. Other information: I am independent, hardworking and honest.

(Dr. Gulab Singh)