Dr. H S Tewari

Centre/School/Special Centre: Physical Sciences

Department: Pure & Applied Physics

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Personal Webpage Link:

https://scholar.google.com/citations?user=lNl_dygA

Qualifications: M. Sc. (Physics), M. Tech., Ph. D. (Indian Institute Technology – BHU)

Area of Interest/Specialization: Materials Science, Nano-magnetic oxides, Energy materials

Experience:

RESEARCH AND ACADEMIC EXPERIENCE:

September 2004- Continue	**Reader and Associate Professor** Department of Pure & Applied Physics Guru Ghasidas University, Koni, Bilaspur – 495009,
September 1996-Aug 2004	**Lecturer** Department of Pure & Applied Physics Guru Ghasidas University, Koni, Bilaspur – 495009,
May 1996- Sept. 1996	**Research Associate (CSIR)** Department of Pure & Applied Physics Guru Ghasidas University, Koni, Bilaspur – 495009,
Feb. 1994 – April 1996	Research Associate (UGC project on Superconductivity) Department of Physics, Barkatullah University, Bhopal, M P, India

ADMINISTRATIVE EXPERIENCE: Worked as Executive Council member, Academic council member, Head of the department, Hostel Warden, NSS Programme officer etc. in GGV, Bilaspur.

AREA OF RESEARCH: Materials Science, Oxide based Electronic Ceramics, Multiferroics, Magnetic Oxide Nano-materials

Awards and Honors:

1. Life Member: Materials Research Society of India (MRSI)
2. Life Member: Indian Society for Particle Accelerator (ISPA)
3. Visited as an UNO funded Expatriate faculty from Oct. 23, 2006 to July 31, 2008 to Department of Physics, Addis Ababa University, Addis Ababa, Ethiopia, N E Africa for teaching.
4. First C. S. I. R. direct Research Associate in Guru Ghasidas University.

Research Projects: Two projects (UGC and DST-CHCOST) completed

International Collaboration/Consultancy: Personal research collaborations and published

Best Peer Reviewed Publication (up-to 10):

1. Magnetic and Dielectric Properties of La and Ni Co-substituted BiFeO3 Nano ceramics.
   Amit Srivastava, Ashwini Kumar Singh, O. N. Srivastava, **H. S. Tewari**, Khalid B. Masood and Jai Singh
   Frontiers in Physics, 8, **2020**, 282
2. Structural and magnetic properties of tailored $NiFe_2O_4$ nanostructures synthesized Using auto-combustion method.
   Rashmi Tiwari, Manojit De, **H. S. Tewari**, S. K. Ghoshal
   https://doi.org/10.1016/j.rinp.2019.102916
   Results in Physics, 2020, 16, 102916
3. Structural, electrical and ferroelectric properties of lithium niobate-bismuth ferrite solid solutions,
   Manojit De, Sugato Hajra, R. Tiwari, S. Sahoo, R. N. P. Choudhary, **H. S. Tewari**, **Solid State Sciences**, **2019,** 93, 1-6.
4. Self-cleaning and spectral attributes of erbium doped sodium-zinc-tellurite glass: Role of titania nanoparticles,
   N N Yusof, S K Ghoshal, R Arifin, A Awang, **H S Tewari**, K Hamzah, **J. of Non-Crystalline Solids** , 481, **2018**, 225-238
5. Investigation on Synthesis, Structural and Electrical properties of Barium Stannate Based Complex Perovskites $Ba_{1-x}La_xSn_{1-x}Co_xO_3$,
   H. S. Tewari and Manojit De
   J. Integrated Science & Technology, **2017**, 5, 43-46.
6. Characterization of Cadmium substituted Nickel Ferrites nano-particles synthesized using combustion technique., Manojit De, Aniruddha Mukherjee and **Hari S. Tewari**., **Processing and Application of Ceramics 2015** 9 [4], 193–197

7. Structural and dielectric properties of Ba4R2Ti4Nb6O30 (R= Y, Sm and Dy) ferroelectric ceramics
   R Palai, R N P Choudhary, **H S Tewari**
   Journal of Physics and Chemistry of Solids 62 (4), 695-700, 2001
8. Preparation, Structure, and Dielectric Properties of the System $Ba_{1-x}La_xTi_{1-x}Ni_xO_3$
   O Parkash, **H S Tewari**, L Pandey, R Kumar, D Kumar
   Journal of the American Ceramic Society 72 (8), 1520-1522, 1989
9. Effect of Hg addition on synthesis of Bi-based superconductors
   V Shelke, **H S Tewari**, N K Gaur, R K Singh
   Physica C: Superconductivity 300 (3-4), 217-224, 1998
10. Study of the electrical conduction behaviour of the Ba1− xLaxTi1− xNixO3 (x⩽ 0.10) system
    O Parkash, **H S Tewari**, V B Tare, D Kumar
    Journal of alloys and compounds 190 (2), 243-247, 1993

Recent Books/Book Chapters/Monographs etc.

1. **Edited special issue of PRAMANA (2014)**
2. **"Advanced in electronic Materials & Devices",** Edited by P.K. Bajpai, **H.S. Tewari** & Amit Khaskalam**, Anamaya Publications, New Delhi.**

Research Supervision:

1. **Ph. D. : One Ph. D. completed and 04 in process**
2. **M. Phil: more than 10 students completed**
3. **M. Sc. (Physics and Electronic): more than 250 students completed.**

Administrative Responsibilities:

1. Member: Incubation Center, GGV, Bilaspur

Additional Information