

# SUMAN SINHA

Associate Professor, Department of Physics

Sarsuna College, 4/H B/A-Ho-Chi-Minh Sarani, Sarsuna, Kolkata, 700061

- **Ph.D. in Science (Jadavpur University)**
- **M.Sc. in Physics (Jadavpur University)**
- **B.Sc. in Physics (Honours) (The University of Burdwan)**
- **NET Qualified**

## Teaching and Research Experience

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- Associate Professor, Sarsuna College (From 2020 -till date)
- Assistant Professor, Sarsuna College (2006 -2020)
- Senior Research Fellow, S. N. Bose National Centre for Basic Sciences (2004-2006)
- Junior Research Fellow, S. N. Bose National Centre for Basic Sciences (2002-2004)

## Languages

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Bengali, English, Hindi

## Publications in Refereed Journals

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**Suman Sinha** and Kalyan Mandal

*Study of Magnetization Dynamics in amorphous  $Co_{68.15}Fe_{4.35}Si_{12.5}B_{15}$  wire*  
International Journal of Scientific & Technology Research, **9** (01), 4427 (2020).

**Suman Sinha**

*Magnetic Barkhausen Noise in amorphous  $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$  nanocrystalline ribbons*  
International Journal of Engineering, Science and Mathematics, **7**, 49 (2018).

**S. Sinha**, B. Das and K. Mandal

*Magnetoimpedance of a glass-coated amorphous microwire*  
Journal of Applied Physics, **105**, 07A311 (2009).

**S. Sinha**, K. Mandal and B. Das

*Magnetization dynamics in wire-shaped amorphous magnetic materials as probed by Barkhausen noise measurement*  
Journal of Physics D: Applied Physics, **40**, 2710 (2007).

**S. Sinha** and K. Mandal

*Study of magnetic Barkhausen noise from amorphous  $Fe_{70}Ni_8Si_{10}B_{12}$  and  $Fe_{40}Ni_{40}B_{20}$  ribbons*

Journal of Non Destructive Testing and Evaluation, **5**, 49 (2006).

**S. Sinha**, K. Mandal and M. Vazquez

*Giant magnetoimpedance in amorphous  $(Co_{0.93}Fe_{0.07})_{63}Ni_{10}Si_{11}B_{16}$  glass-coated microwire*

Journal of Magnetism and Magnetic Materials, **302**, 223 (2006).

K. Mandal, **S. Sinha** and P. Anil Kumar

*Contributions to giant magnetoimpedance from different domain regions of  $Co_{68.15}Fe_{4.35}Si_{12.5}B_{15}$  amorphous wire*

Journal of Applied Physics, **99**, 033901 (2006).

Subarna Mitra, K. Mandal, **Suman Sinha**, P M G Nambissan and S. Kumar

*Size and temperature dependent cationic redistribution in  $NiFe_2O_4(SiO_2)$  nanocomposites: positron annihilation and Mossbauer studies*

Journal of Physics D: Applied Physics, **39**, 4228 (2006).

**S. Sinha** and K. Mandal

*Effect of tensile stress on the magnetic Barkhausen noise in amorphous  $Fe_{70}Ni_8Si_{10}B_{12}$  ribbon*

Indian Journal of Physics, **79(9)**, 991 (2005).

## Research Projects

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- “Characterization of amorphous ribbons by magnetic Barkhausen noise technique”, funded by UGC under Minor Research Project 2015-16.
- “Characterization of magnetic materials by nondestructive Barkhausen noise measurements”, funded by Board of Research in Nuclear Science (Department of Atomic Energy, Government of India), BRNS Sanction No. 2003/37/13/BRNS, 2003 – 2007, PI: Prof. K. Mandal.

## Professional Memberships

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- Life Member of The Indian Science Congress Association