

Dr. Somnath Choudhury

Assistant Professor
Department of Physics
Suri Vidyasagar College
Suri, Birbhum, West Bengal-731101



Gonpur, Birbhum, West Bengal, 731216

somnathbratati21@gmail.com

Mob: 8116497957

Academic Qualification:

- **2017 Ph.D. in Physics**, NIT, Durgapur
- **2009 M.Sc in Physics**, Visva-Bharati
- **2007 B.Sc in Physics**, Visva-Bharati
-

Area of Interest: Condense matter physics , Nano materials.

Teaching experience: 9 Years+

List of Publication:

- **S. Choudhury**, M. Shina, H. Dutta, M. K. Mandal, S. K. Pradhan and A. K. Meikap, “Activation behaviour and dielectric relaxation of nanocrystalline zinc ferrite”, *Materials Research Bulletin* **60** (2014) 446-452.
- **S. Choudhury**, M. Shina, M. K. Mandal, S. K. Pradhan and A. K. Meikap, “Electrical transport properties of nanocrystalline non-stoichiometric nickel ferrite at and above room temperature”, *Physica B* **457** (2015) 225-231.
- **S. Choudhury**, S. Sain, M. K. Mandal, S. K. Pradhan and A. K. Meikap, “Microstructure Characterization and Electrical Transport of Nanocrystalline $Zn_{0.90}Mn_{0.10}O$ Semiconductors Synthesized by Mechanical Alloying”, *Material Research Bulletin* **77** (2016) 138-146.
- **S. Choudhury**, S. Sain, M. K. Mandal, S. K. Pradhan and A. K. Meikap, “Investigation of dielectric and electrical behaviour of nanocrystalline $Zn_{1-x}Mn_xO$ ($x = 0$ to 0.1) Semiconductors Synthesized by Mechanical Alloying”, *Physica E* **81**(2016) 122-130.
- H.Mondal, A.Pathak, S.Pal, **S. Choudhury** and A.K.Das, “Sparse based image encryption using 6D-Chaotic system and RC6”, *SCI. and Cult.* **89**(11-12):400-405(2023).

- **S. Choudhury**, R.Saha, “computational simulation and Modelling of Arterial Drug Delivery from half-embedded drug-eluting stents in single-layered homogeneous vessel wall”, *Communications in Mathematics and Applications*”, Vol 15, No 1 pp. 203-219,(2024).

Seminar/Conference:

- **S. Choudhury**, S. Sain, M. K. Mandal, S. K. Pradhan and A. K. Meikap, “Electrical transport properties and Microstructure properties of $Zn_{0.98}Mn_{0.02}O$ Nanocomposites”, 4th International Conference on Advance Nanomaterials & Nanotechnology (*ICANN-2015*) December 8-11, 2015 IIT Guwahati, Guwahati-781039, India.
- **S. Choudhury**, M. Shina, H. Dutta, M. K. Mandal, S. K. Pradhan and A. K. Meikap, “Complex electric modulus and dielectric relaxation of nanocrystalline zinc ferrite”, *AIP Conference Proceedings* 1665 (2015) pp. 1100123 (1-3).
- **S.Choudhury**, S.R.Bhattacharyya, “Fabrication of ZnO nanowire by modified wet-chemical process” *NCFMSP-2024*, Organized by Sidho-Kanho University,WB, INDIA.
