

Susanta Ghosh

PERSONAL DETAILS

Gender: Male.

Email: [susantasanjit@gmail.com](mailto:sasantasanjit@gmail.com)

Address: Naskarpur,

Mobile No.: +91-967-406-5560

Bighati,

Singur,

Hooghly (West Bengal, India) - 712124

Languages known: Bengali, English, and Hindi.

EDUCATION

2015-2017 M.Sc.(Physics), Indian Institute of Technology (IIT) Bhubaneswar, Odisha, India.

Thesis: Ion irradiation effects on 1-D nanomaterials.

CGPA: 8.26/10

2012-2015 B.Sc.(Honours), University of Burdwan, West Bengal, India.

Major: Physics; Minor: Chemistry and Mathematics.

Percentage: 58.75

2010-2012 Intermediate/+2, W.B.C.H.S.E., West Bengal, India.

Percentage: 80.80

2010 Matriculation, W.B.B.S.E., West Bengal, India.

Percentage: 86.12

RESEARCH EXPERIENCES

- **Ion irradiation effects on carbon nanotube** (M.Sc. project, IIT Bhubaneswar).
(Supervisor: Dr. Shyamal Chatterjee, Assistant Professor of IIT Bhubaneswar, May,16 - May,17)
- **Synthesis and characterization of metal oxide (SnO₂) nanowire** (M.Sc. project, IIT Bhubaneswar).
(Supervisor: Dr. Shyamal Chatterjee, Assistant Professor of IIT Bhubaneswar, May,16 - May,17)

PUBLICATION

- "Superhydrophobic to hydrophilic transition of multi-walled carbon nanotubes induced by Na⁺ ion irradiation", Nucl. Inst. Meth. B , 413 (2017) 31. (Authors: Pritam Das, Satyanarayan Dhal, Susanta Ghosh, Sriparna Chatterjee, Chandra S. Rout, Niranjana Ramgir, Shyamal Chatterjee*)

SKILLS

- Skilled in analysis of XRD, FESEM, EDS, Raman, XPS.

COMPUTER SKILLS

- **Mathematical tool:** MATLAB.
- **Publishing tools:** LaTeX, BibTeX, Microsoft Office.
- **Programming and scripting language:** Fortran, Python.
- **Operating systems:** Unix, GNU/Linux, Windows.
- **Data analysis tool:** Origin.

RESEARCH INTERESTS

- Topological Insulator, Weyl Semimetals, Dirac Semimetals, Half Metal, Strongly correlated electron system, Superconductivity etc.

ACHIEVEMENTS

- Qualified **UGC-JRF (2018)** in Physics.
- Qualified **GATE (2018)** in Physics.
- Qualified **IIT JAM (2015)** in Physics.
- Awarded West Bengal government **MCM Scholarship** for Under Graduate.
- Awarded West Bengal government **MCM Scholarship** for Intermediate.

STRENGTHS

- Positive Attitude.
- Hardworking.

INTEREST AND HOBBIES

- Listening music.
- Playing Cricket.
- Traveling.