

Curriculum Vitae

Aniket Patra

Molicelle C3, App. 5, Stanza 2,
Rende(CS)-87036, Italy

Permanent Address:

Medinipur Ratulia, Panskura
West Bengal-721139, India

Email: aniketpatra003@gmail.com

Skype ID: aniketpatra003

Phone number: +39 331 542 5616

Current position

Ph.D scholar at Physics Department – University of Calabria and Italy Institute of Technology

Work experience

- Researcher at **National Institute of Material Science**, JAPAN (May2019-till date)
- Researcher at **Indian Institute of Science**, India (January 2018-April 2019)
- M.Tech trainee at **CSIR-CGCRI-Kolkata**, India (June2016-July2017)

Academic Qualifications

Examination	Year	CGPA (10 th scale)	Institution	University/ Board
M.Tech (Nano Sc. & Tech.)	2017	CGPA- 8.65 (First class)	Jadavpur University	Jadavpur University
B.Tech (Electronics & Communication Engineering)	2014	DGPA- 8.23 (First class)	Meghnad Saha Institute of Technology	Maulana Abul Kalam Azad University of Technology (MAKAUT /WBUT)

Research experience

- **InSb quantum dots for infrared photodiode** (at NIMS, Japan)
- **Photocatalytic degradation of industrial waste water using ZnO catalyst** (at IISc, India)
- **Piezoelectric nanocomposite as a nanogenerator** (at CGCRI-Kolkata, India)
- **Lead free piezoelectric substrate for actuators** (at CGCRI-Kolkata, India)

Academic achievements

- Recipient of MHRD Indian Government Scholarship for pursuing Post Graduate Studies based on **Graduate Aptitude Test in Engineering (GATE 2015)**.
- 3rd rank among 19 students in M.Tech.
- 3rd rank among 65 students in 12th standard school.

Publication

Journal publication

- Polyvinylpyrrolidone modified Barium Zirconate Titanate /Polyvinylidene Fluoride Nanocomposites as Self-Powered Sensor. **Aniket Patra**, Avijit Pal, Shrabane Sen, [Ceramics International \(Volume 44, Issue 10, July 2018, Pages 11196-11203\)](#)

- Enhanced Dielectric and Piezoelectric Behaviour of Tape Casted BCT-BZT Piezoelectric Wafer.
A.Patra, A.Sasmal, S.Sen, A.Seal,
[Journal of Materials Science: Materials in Electronics \(Volume 29, Issue 16, August 2018, Pages 14046–14054\)](#)
- Cauliflower shaped ZnO on Stainless Steel Mesh for Methylene Blue Degradation Through UV Light Active Catalysis.
Aniket Patra, Monoj Kumar Singha,
(Under review)

Conference publication

- Shrabanee Sen, Avijit Pal, **Aniket Patra**, Ipsita Chinya “Development of Polymer-Ceramic Flexible Nanocomposites for Nanogenerator Application”, International Conference on Nanotechnology: Ideas, Innovations & Initiatives (ICN:3I 2017), December, 06-08, 2017, IIT Roorkee, India
- Monoj Kumar Singha, **Aniket patra**, “Effect of ZnO on Stainless Steel Electrode for Piezoelectric Application” [2019 IEEE Sensors Applications Symposium \(SAS\), 1-4](#)
- Monoj Kumar Singha, **Aniket Patra**, Vineet Rojwal, KG Deepa, Dipanjan Kumar, “Ultrasonic spray pyrolysis deposited ZnO thin film for photocatalytic activity” [AIP Conference Proceedings 2082 \(1\), 030023](#)

Skills

Synthesis skills

- Solid state synthesis using Ball milling and Planetary milling machine.
- Chemical route synthesis using Spray pyrolysis, Schlenk line, Hydrothermal method, co-precipitation, Hot injections, Sol-gel.

Nanofabrication skills

- Spin coating
- Electron beam lithography
- Thermal Evaporation
- Sputtering
- Hot-pressing and High temperature furnaces

Characterization skills

- Material characterization using Powder XRD, UV-Vis, Raman, PL spectroscopy, FE-SEM, XPS & TEM.
- Transport measurement and electrical property measurement using Impedance analyser, Source Meter, Ferroelectric hysteresis measurement, Probe station

Software knowledge

C, MATLAB, LUMERICAL, Origin, LabVIEW, Blender.