

Curriculum Vitae

Dr. Priyanka Basyach

D.O.B: 01/11/1987

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Address for Communication: Assistant Professor

Dept of Physics

Dibru College

Dibrugarh-786003

Specialization: Condensed Matter Physics

Research Area: Nanostructures, Photocatalysis, Photovoltaics, Thin films.

ACADEMIC QUALIFICATIONS

Obtained/ Qualified

- PhD from Dept of Physics, Tezpur University, Tezpur, Assam in 2015.
- M.Sc from Dept of Physics, Tezpur University, Tezpur, Assam in 2010.
- B.Sc Major in Physics from Bajali College, Pathsala, Assam in 2008.
- H.S (Science) from Cotton College, Guwahati, Assam in 2005.
- H.S.L.C from Bajali H.S.School, Pathsala, Assam in 2003.

ACADEMIC ACHIEVEMENTS

- Placed in rank 6 in H.S.L.C,2003, SEBA, Assam
- 1st class 6th position with distinction in B.Sc in Physics(Major) 2008, Gauhati University.
- Qualified CSIR-UGC NET (LS) Dec 2009 with AIR 105.
- Qualified GATE 2010
- Awarded Gold Medal for securing 1st class 1st position in M.Sc in Physics,2010,Tezpur University
- Qualified CSIR-UGC NET (JRF) Dec 2010 with AIR 54.
- Aailed DST-INSPIRE JRF later upgraded to SRF.

SELECTED SEMINAR/CONFERENCES:

- Presented POSTER at CMDAYS 2011 held in Gauhati University.
- Oral presentation at ISWESD 2012,Sivasagar College
- Oral presentation at NCPS 2013,D.H.S.K College
- Oral presentation at ICETRE 2013,C.V.Raman College of Engineering, Bhubaneswar
- Poster presentation in RDSC-2017, Dibrugarh University,Assam
- Oral Presentation in NAMASTA-2017, Dibrugarh University,Assam
- Oral Presentation in STMH-2019, USTM,Meghalaya.

- Participated in International webinar on "**Recent Aspects In Physics**" organised by Dept of Physics Lakhimpur Girls' College from 27th to 29th July, 2020.

SELECTED PUBLICATIONS:

1. Priyanka.Basyach and Amarjyoti Choudhury, Structural and optical properties of core shell Ag₂S /HgS nanostructure, **Materials Research Bulletin**, 48 (2013) 2543–2548
2. Biswajit Choudhury*, Priyanka Basyach, Amarjyoti Choudhury, Monitoring F , F^+ and F_2^{2+} related intense defect emissions from nanocrystalline MgO, **Journal of Luminescence** 149(2014), 280–286.
3. . Pawan Chetri, Priyanka Basyach, Amarjyoti Choudhury, Structural, optical and photocatalytic properties of TiO₂/SnO₂ and SnO₂/TiO₂ core-shell nanocomposites: An experimental and DFT investigation, **Chemical Physics** 434 (2014) 1–10.
4. Pawan Chetri, Priyanka Basyach, Amarjyoti Choudhury, Daylight photocatalytic activity of TiO₂ / SnO₂ core/shell nanostructures: An experimental and density functional study, **AIP Conference Proceedings**, 1591(2014), 351.
5. Pawan Chetri, Priyanka Basyach, Amarjyoti Choudhury, Exploring the structural and magnetic properties of TiO₂/SnO₂ core/shell nanocomposite:An experimental and density functional study, **Journal of Solid State Chemistry**, 220(2014)124–131.

COLLABORATIVE PROJECT:

Visiting Research fellow in Dept of Physics, University of Southampton, UK from 10th August to 20th September, 2014 for a collaborative project under UGC-UKIERI scheme.

BOOK CHAPTER:

1. Priyanka Basyach, Amarjyoti Choudhuy, "Role of CdSe-TiO₂ Core-shell Nanocomposites as a visible light driven photocatalyst", **Advances in Nuclear Physics and Condensed Matter**, EBH Publishers, 224-233

TEACHING EXPERIENCE:

1. Served as an Assistant Professor, in dept of Physics, Digboi College, Assam from 21/03/2015 till 02/03/2020.
2. Currently Serving as an Assistant Professor in Dept of Physics, Dibru College, Dibrugarh, Assam since 03/03/2020.

OC/RC/FDP:

1. Participated in Orientation programme held at UGC-HRDC, Gauhati University from 07 Feb -06 March, 2018.
2. Participated in FDP titled “ Behavioral Remodelling and Use of ICT tools for Classroom Delivery of Teachers” held at DHSK College, Dibrugarh from 01-06 July, 2019.
3. Participated in FDP titled “Mentoring Pedagogy and Effective Learning Techniques Using ICT” held at Digboi College, from 04-08 Nov,2019.
4. Participated in the “**One Week National Level Online Faculty Development Programme (FDP) on Online Class Management**” organised by Internal Quality Assurance Cell (IQAC),Dibru College, Dibrugarh, Assam from July 06 to July 11, 2020 through ZOOM Cloud Meetings.