**Personal Profile**

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| Photo |  | **Dr. Upamanyu Das** |
| **Assistant Professor, Department of Physics** |
| **Rajiv Gandhi University, Rono Hills, Doimukh** |
| **Arunachal Pradesh-791112** |
|  |
| **Email:** | **upamanyu.das@rgu.ac.in** |
|  | **upam2005@gmail.com** |
|  |  |
| **Phone No.:**  | **+91 9706011265; +91 9678179430** |

**Educational Profile**

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| --- | --- |
| Ph.D. | Tezpur University, Tezpur, Assam; 2010Supervisor: Dr. D. Mohanta |
| M.Sc.. | Tezpur University, Tezpur, Assam; 2003Subject: Physics Specialization: Condensed Matter Physics |
| B.Sc. | Gauhati University. Guwahati, AssamSubject: Physics  |

**Professional Experience**

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| **Assistant Professor**, Department of Physics, Rajiv Gandhi University, Arunachal Pradesh, INDIA | 6 June 2012 – till date |

**Administrative Experience**

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| 1. Head of Department, Department of Physics, Rajiv Gandhi University, Arunachal Pradesh, INDIA
 | 21 August 2013 to 06 July 2015 |
| 1. Chairmen, Board of Post Graduate Studies (Physics) Rajiv Gandhi University, Arunachal Pradesh, India.
 | 21 August 2013 to 06 July 2015 |
| 1. Chairmen, Board of Under Graduate Studies (Physics) Rajiv Gandhi University, Arunachal Pradesh, India.
 | 21 August 2013 to 06 July 2015 |
| 1. Member, Board of Under Graduate Studies (Physics) Rajiv Gandhi University, Arunachal Pradesh, India
 | 21 February 2013 to till date |

**Awards & Honours**

**Membership of Professional Bodies**

**Research Interests**

* Condensed Matter Physics

**Research Publications**

1. Semiconductor Nanomaterial and its Electronic Structure: A Review, Das Upamanyu International Journal of Scientific & Engineering Research Volume 12, Issue 5, May-**2021**, 813
2. Growth of Flower Like ZnO Nanostructures: The Influence of Substrate, International Journal of Scientific Research and Engineering Development-– Volume 4 Issue 3, May- June **2021**, 242
3. Measurement of high disorder state of high-density polyethylene (HDPE) on irradiation by Gamma rays, Kumar V., Tundwal Ambika, Raghaw Nagendra, Das Upamanyu, Sanjeev Kumar. Indian Journal of Physics, **2020**, 95, 1757 - 1762
4. Development of ZnS Nanostructure Based Luminescent Devices, Das Upamnayu, Imperial Journal of Interdisciplinary Research(IJIR), **2016**, 2, 627 -630
5. Evolution Of ZnO Nanoparticles And Nanorods: Aspect Ratio Dependent Optoelectronic Properties, Das Upamanyu, Mohanta Dambarudhar, *The European Physical Journal Applied Physics,* **2011,** 53, 10602
6. Peacock Feather Supported Self Assembled Zno Nanostructures For Tuning Photonic Properties, Bayan Sayan, Das Upamanyu, Mohanta Dambarudhar, *The European Physical Journal D*, **2010,** 1
7. Development Of Tb-Doped ZnO Nanorods: Effect Of Nitrogen Ion Irradiation On Luminescence And Structural Evolution, Bayan Sayan, Das Upamanyu, Mohanta Dambarudhar, *Phys. Status Solidi A*, **2010**, 1
8. ZnS:Cr Nanostructures Building Fractals and Their Properties, Gogoi Durga Prasad, Das Upamanyu, Mohanta Dambarudhar, Amarjoyti Choudhury, *Advance Nanomaterials and Nanotechnology (AIP,USA)*, **2010,** 26
9. Chromium Doped ZnS Nanostructures: Structural and Optical Characteristics, Das Upamanyu, Mohanta Dambarudhar, Amarjoyti Choudhury, *Advance Nanomaterials and Nanotechnology (AIP,USA)*, **20109,** 502
10. Effect Of Structure And Concentration Of Polymer, Metal Ion And pH Of The Medium On The Fluorescence Characteristics Of Hyperbranched Polyamines, Mahapatra Sibdas Singha, Das Upamanyu, Karak Niranjan, *Journal of Luminescence,*  **2008,** 128, 1917
11. Fabrication of ZnO nanorods optoelectronic applications, R. Chakrabarty, Chakrabarty Ritun, Das Upamanyu, Mohanta Dambarudhar, *Indian Journal of Physics*, **2009**, 83, 479
12. Structural and Optical properties of Ti+11 irradiated nanostructures, Das Upamanyu, Mohanta Dambarudhar, Indian *Journal of Physics,* **2008**, 82, 163
13. Development of transition metal doped ZnS nanostructure and its application to luminescent devices, Das Upamanyu, Mohanta Dambarudhar, *Indian Journal of Physics* **2007,** 66

**Patent**

**Book/Book Chapter published**

1. Das Upamanyu, Mohanta Dambarudhar, Development Of Polymer Stabilized Silver Nanoparticles And Their Optical Properties, *Norosa Proceeding on Photonics and Quantum Structures,* Eds. Mohanta Dambarudhar, Norosa Publishing 2010,

**Research guidance**

**Ph.D scholar**

1. Full name of the Scholar: Bandana Gogoi

Topic of research: Size Selected Transition Metal Oxide Nanoparticles: Synthesis, Characterization and Applications

Year of PhD degree: Ongoing

1. Full name of the Scholar: Ringshar Narzary

Topic of research: Development of Tin Oxide nanostructures and its composites for technological applications

Year of PhD degree: Ongoing

1. Full name of the Scholar: Tani Chekke

Topic of research: Development and characterization of Tungsten disulphide nanostructures and its nanocomposite for potential applications.

Year of PhD degree: Ongoing

1. Full name of the Scholar: Soni Ngadong

Topic of research: Development of metal oxide composite based piezoelectric nanogenerators

Year of PhD degree: Ongoing

**Course/Conference/Workshop organized**

1. Inter-University Accelerator Centre (IUAC) Acquaintance Workshop by Department of Physics, Rajiv Gandhi University, Arunachal Pradesh, India,

Duration: 25 April 2019

Role: Convener

**Course/Conference/Workshop etc. attended**

1. Delivered a Poster Presentation in International Conference on Transport and Optical Properties of Nanomaterials (ICTOPON-09*)*, an International Conference held at Department of Physics, National Institute of Technology, Rourkella, India during 5 - 8th January 2009
2. Delivered an Oral Presentation in Condensed Matter Days 2007, a National Conference held at Department of Physics, National Institute of Technology, Rourkella, India during 29 -31 August 2007
3. Delivered an Oral Presentation in Condensed Matter Days 2006, an National Conference held at Department of Physics, Tezpur University, Tezpur, India during 29 -31st August 2006
4. Delivered an Oral Presentation in Condensed Matter Days 2005, an National Conference held at Department of Physics, Behrampur University, Behrampur, India, Country during 3 - 4th August, 2005
5. Delivered an Oral Presentation in 7th National Conference in Physics (PANE 2010) a National Conference held at Department of Physics, Manipur University, India during 5-6 October 20210

**Sponsored Project**