

## Personal Profile

**Name** : Dr Oindrila Mondal  
**Designation** : Assistant Professor (Stage 2) in Physics  
**Date of Joining** : 08.04.2010

### Academic Qualification:

Sl.	Examination	Subject	Passing Year	Board/ University	Division/ Class	Marks Obtain
1	Ph. D	Physics (Thesis Title- SYNTHESIS AND CHARACTERIZATION OF METAL AND METAL OXIDE NANOSTRUCTURES)	2014	Burdwan University	-	-
2	M. Sc.	Physics (Special Paper- Solid state Physics)	2006	Burdwan University	1 <sup>st</sup>	73.9%
3	B.Sc.	Physics (Hons), Mathematics, Chemistry	2004	Burdwan University	1 <sup>st</sup>	67.75%
4	I.S.C	English, Bengali, Physics, Chemistry, Mathematics, Biology	2001	C.I.S.C.E, New Delhi.	-	82.3%
5	I.C.S.E	English, Bengali, Mathematics, Science (Phy, Chem, Bio), Social Science (Hist, Civics and Geo), Computer Studies	1999	C.I.S.C.E, New Delhi.	-	81.3%

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**Area of Interest:** Condensed Matter Physics and Nanotechnology

**Teaching Experience:** School Teaching- 1 Year 10 months, College Teaching- Since March '2010

**Courses Taught:** B.Sc PHYSICS HONOURS AND GENERAL

**Seminar attended:** Annexure I

**Article Publications:** Annexure II

**Courses Attended:**  
1. 94<sup>th</sup> Orientation Programme (24/01/14 to 20/02/14) at ASC, B.U.  
2. 2<sup>nd</sup> Refresher Course in "Nano Science & Nano Technology"  
(04/08/15 to 24/08/15) at UGC-HRDC, B.U.

3. Refresher Course in “Environmental Science & Disaster Management” (12/09/2019 to 25/09/2019) at UGC-HRDC Ranchi University.
4. Online Short Term Course in “Solid State Waste Management” (08/09/20 to 14/09/20) at UGC-HRDC Goa University.
5. Refresher Course in “Recent Advances in Science and Technology” (20/08/21 to 02/09/21) at UGC-HRDC, B.U.
6. Short Term Course on “E-content Development and Online Pedagogy” (21/06/22 to 27/06/22) at UGC-HRDC, B.U.

**Research Project:** N/A

**Annexure I**  
**Seminar/Conferences attended**

1. “National Thematic Workshop on Recent Advances in Material Sciences” at Dept. of Physics, The University of Burdwan (8-9<sup>th</sup> March, 2016)
2. “National Seminar on Frontier in Chemistry” at M.U.C Women’s College, Burdwan (4<sup>th</sup>-5<sup>th</sup> Dec, 2013)
3. “Third National Seminar on Recent Trends in Condensed Matter Physics including Laser Application” at Dept. of Physics, The University of Burdwan (5-7<sup>th</sup> March, 2013).
4. “National Seminar on Advanced Functional Materials” at CSIR-Central Mechanical Engineering Research Institute, Durgapur (24<sup>th</sup> January, 2013).
5. “Workshop on Advanced Functional Materials” at Dept. of Physics, Banaras Hindu University, Varanasi (19-24<sup>th</sup> March, 2012).
6. “UGC sponsored State level seminar on Nanoscience and nanotechnology: Present and future.” Kandi Raj College, Kandi, Murshidabad (12-13<sup>th</sup> January, 2012).
7. “India Australia International workshop on Nanotechnology in material and energy application.” Jadavpur University (29-31<sup>st</sup> December, 2011)
8. “Challenges of Biology in 21<sup>st</sup> Century.” MUC Women’s College, Burdwan. (1-2<sup>nd</sup> December, 2011)
9. “UGC sponsored national seminar on Women & Society in Colonial India.” MUC Women’s College, Burdwan. (29-30<sup>th</sup> Nov, 2011)
10. “UGC, International Seminar on Global Warming.” Burdwan Raj College, Burdwan. (21-22<sup>nd</sup> Nov, 2011)
11. “Particle Physics and Cosmology” Dept. of Physics, Burdwan University. (24-25<sup>th</sup> March, 2011).
12. “National Workshop on radiation Science and Applications.” Dept. of Physics, Burdwan University. (10-12<sup>th</sup> November, 2008).
13. “Fourth National Workshop on characterization of LASER and nanomaterials.” Dept. of Physics, Burdwan University. (7-9<sup>th</sup> March, 2008).

## Annexure II

### List of Publications

1. “Characterization of Bimetallic Cu-Ni Nanostructures Synthesized by Successive Reduction Method” **O. Mondal** *GIS Science Journal*. 2021, **8**, 663-670.
2. “Multifunctionality in graphene decorated with cobalt nanorods” **O. Mondal**, S. Mitra, A. Datta, D. Chakravorty and M. Pal. *Mater Design*. 2016, **101**, 204-209
3. “Reduced graphene oxide synthesis by high energy ball milling” **O. Mondal**, S. Mitra, M. Pal, A. Datta, S. Dhara and D. Chakravorty. *Mat. Chem Phys*. 2015, **161**, 123-129.
4. “Influence of doping on crystal growth, structure and optical properties of nanocrystalline CaTiO<sub>3</sub>: A case study using small-angle neutron scattering” **Oindrila Mondal**, Manisha Pal, Ripandeep Singh, Debasis Sen, Subhasish Mazumder and Mrinal Pal. *J. Appl. Cryst*. 2015, **48**, 836–843.
5. “Effect of Mn doping on microstructure and optical properties of nanocrystalline ZnO” M Karmakar, **O. Mondal**, B. Roy, P.K. Paul and M. Pal. *Nano* 2013, **8**, 1350058.
6. “Improved and unusual magnetic properties of ZnO nanorings” **O. Mondal**, N. T. K. Thanh, L. W. Green, and M. Pal. *Functional Materials Letters* 2013, **6**, 1350049.
7. “Ultrafine narrow dispersed copper nanoparticles synthesized by a facile chemical reduction method” **O. Mondal**, A. Dutta, D. Chakravorty, and M. Pal, *MRS Communication*. 2013, **3**, 91-95.
8. “Unusual and strong emission in visible region from Mn<sup>2+</sup> and Y<sup>3+</sup> doped ZnO nanocrystals” **O.Mondal**, and M. Pal, *Opt. Mater*. 2013, **35**, 1520-1525.
9. “Observation of spin-glass behavior in nickel adsorbed few layer graphene” S. Mitra, **O. Mondal**, S. Banerjee, and D. Chakravorty, *J. Appl. Phys*. 2013, **113**, 024307.
10. “Ni-substitution induced inversion in ZnFe<sub>2</sub>O<sub>4</sub> seen by positron annihilation” P.M.G. Nambissan, **O. Mondal**, S. Chakrabarty, and M. Pal, *Mater. Sci. Forum*. 2013, **733**, 219-223.
11. “Effect of neodymium doping on structure, electrical and optical properties of nanocrystalline ZnO” B. Roy, S. Chakrabarty, **O. Mondal**, M. Pal, and A. Dutta, *Mater. Characterization*. 2012, **70**, 1-7.
12. “Strong and unusual violet-blue emission in ring shaped ZnO nanocrystals” **Oindrila Mondal** and Mrinal Pal. *J. Mater. Chem.*, 2011, **21**, 18354–18358.
13. “Magnetodielectric Effect in Graphene-PVA Nanocomposites” Sreemanta Mitra, **Oindrila Mondal**, Dhriti Ranjan Saha, Anindya Datta, Sourish Banerjee, and Dipankar Chakravorty. *J. Phys. Chem. C* 2011, **115**, 14285–14289.

14. "Unusual Magnetic Properties Of Nanocrystalline GdFeO<sub>3</sub> Prepared by Solid State Reaction Route at lower temperature". **O. Mondal**, SK. M. Hossain, B. Roy and M. Pal. *Functional Materials Letters* 2011, **4**, 249-253.
15. "Effects of annealing on structure and optical properties of Mn-substituted ZnO nanoparticles"- B. Roy, **O. Mondal**, D. Sen J. Bahadur, S. Mazumder and M. Pal. *J. Appl. Cryst.* 2011, **44**, 991-998.
16. Preparation and Microstructural Characterization of Nanocrystalline Mn-doped ZnO" B. Roy, **O. Mondal**, A. Deb, S. P. Sengupta, P. Chatterjee and M. Pal. *Nano*, 2011, **6**, 379-385.
17. "Superparamagnetic fluorescent nickel–enzyme nanobioconjugates: synthesis and characterization of a novel multifunctional biological probe" Pramod Kumar Verma, Anupam Giri, Nguyen T. K. Thanh, Le Duc Tung, **Oindrila Mondal**, Mrinal Pal and Samir Kumar Pal *J. Mater. Chem.*, 2010, **20**, 3722–3728.