

## Personal Profile

1. Name : Dr Oindrila Mondal
2. Date of Birth : 04/06/1983
3. Father's Name : Asit Kumar Mondal
4. Present Designation : Assistant Professor (Stage 3) in Physics
5. Date of joining : 08/04/2010
6. Official Address : Department of Physics  
M.U.C Women's College  
Purba Bardhaman. Pin - 713104
7. Present Address : Aranyak Apartment, Kalibazar Amtala  
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11. Academic Qualification:



Sl. No.	Examination	Subject	Year of Passing	Board/ University	Division/ Class	Marks Obtained
i	Ph. D	Physics (Thesis Title- Synthesis And Characterization Of Metal And Metal Oxide Nanostructures)	2014	B.U	-	-
ii	M. Sc.	Physics (Special Paper- Solid State Physics)	2006	B.U	1 <sup>st</sup>	73.9%
iii	B.Sc.	Physics (Hons), Mathematics, Chemistry	2004	B.U	1 <sup>st</sup>	67.75%
iv	I.S.C	English, Bengali, Physics, Chemistry, Mathematics, Biology	2001	C.I.S.C.E, New Delhi.	-	82.3%
v	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%

12. Other examinations qualified : UGC-CSIR NET - 2006

13. Area of Research Interest : Condensed Matter Physics and Nanotechnology
14. Teaching Experience : School Teaching- 1 Year 10 months,  
College Teaching- 14 years
15. Courses Taught : B.Sc in Physics
16. Seminar attended : Annexure I
17. Article Publications : Annexure II
18. Research Project : N/A
19. No. of citations : 333
20. h-index : 8
21. Courses Attended:
- i. NEP ORIENTATION AND SENSITIZATION Programme – 6 (19/02/24 to 28/02/24) at Malaviya Mission Teacher Training Centre, B.U.
  - ii. Short Term Course on “E-content Development and Online Pedagogy” (21/06/22 to 27/06/22) at UGC-HRDC, B.U.
  - iii. Refresher Course in “Recent Advances in Science and Technology” (20/08/21 to 02/09/21) at UGC-HRDC, B.U.
  - iv. Online Short Term Course in “Solid State Waste Management” (08/09/20 to 14/09/20) at UGC-HRDC Goa University.
  - v. Refresher Course in “Environmental Science & Disaster Management” (12/09/2019 to 25/09/2019) at UGC-HRDC Ranchi University.
  - vi. 2<sup>nd</sup> Refresher Course in “Nano Science & Nano Technology” (04/08/15 to 24/08/15) at UGC-HRDC, B.U.
  - vii. 94<sup>th</sup> Orientation Programme (24/01/14 to 20/02/14) at ASC, B.U.
22. Academic Leadership : Departmental In- Charge from 01.01.21 to 31.12.22
23. Participation in activities of different committees within the college : i. Convener of Admission committee from 2017 to 2019  
ii. Member of Examination and Result committee from 2019 to 2023.  
iii. Member of Routine committee from 2021-2023

## Annexure I

### Seminar/Conferences attended

1. “International Conference on Life and Environment: Issues and Concern” at Vivekananda Mahavidyalaya, Purba Bardhaman (09<sup>th</sup> March 2023)
2. “International Conference on Materials Processing and Applications” at College of Commerce, Arts & Science, Patna (01 – 03<sup>rd</sup> March 2023)
3. “Two-Day National Seminar on Popular and Basic Sciences: A Quest Towards Foundation of Science” at Sarat Centenary College, Dhaniakhali. (23 –24<sup>th</sup> September, 2022)
4. “National Thematic Workshop on Recent Advances in Material Sciences” at Dept. of Physics, The University of Burdwan (8-9<sup>th</sup> March, 2016)
5. “National Seminar on Frontier in Chemistry” at M.U.C Women’s College, Burdwan (4<sup>th</sup>-5<sup>th</sup> Dec, 2013)
6. “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).
7. “National Seminar on Advanced Functional Materials” at CSIR-Central Mechanical Engineering Research Institute, Durgapur (24<sup>th</sup> January, 2013).
8. “Workshop on Advanced Functional Materials” at Dept. of Physics, Banaras Hindu University, Varanasi (19-24<sup>th</sup> March, 2012).
9. “UGC sponsored State level seminar on Nanoscience and nanotechnology: Present and future.” Kandi Raj College, Kandi, Murshidabad (12-13<sup>th</sup> January, 2012).
10. “India Australia International workshop on Nanotechnology in material and energy application.” Jadavpur University (29-31<sup>st</sup> December, 2011)
11. “Challenges of Biology in 21<sup>st</sup> Century.” MUC Women’s College, Burdwan. (1-2<sup>nd</sup> December, 2011)
12. “UGC sponsored national seminar on Women & Society in Colonial India.” MUC Women’s College, Burdwan. (29-30<sup>th</sup> Nov, 2011)
13. “UGC, International Seminar on Global Warming.” Burdwan Raj College, Burdwan. (21-22<sup>nd</sup> Nov, 2011)
14. “Particle Physics and Cosmology” Dept. of Physics, Burdwan University. (24-25<sup>th</sup> March, 2011).
15. “National Workshop on radiation Science and Applications.” Dept. of Physics, Burdwan University. (10-12<sup>th</sup> November, 2008).
16. “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. “Unusual Magnetic Behaviour of Ultrafine Stable Nickel Nanoparticles.” O. Mondal *J. Sci. Res.* 2024, 16 (2), 437-447.
2. “A review on synthesis of metal nanostructures using chemical processes” O. Mondal *Int. J. Res. Anal. Rev.* 2023, 10 (4), 744-748.
3. “Photoluminescence properties of zinc oxide nanostructures: A review” O. Mondal *IJMRGE* 2023, 4(5), 1084-1087.
4. “Review on Characterization Techniques Used in Nanoscience” O. Mondal *Int. J. Res. Anal. Rev.* 2023, 10 (2), 297-301.
5. “Microstructure, Optical and Electrical Properties of Cu-Cu<sub>2</sub>O Core-Shell Nanostructures” O. Mondal *J. Sci. Res.* 2022, 14 (3), 831-842.
6. “Characterization of Bimetallic Cu-Ni Nanostructures Synthesized by Successive Reduction Method” O. Mondal *GIS Science Journal.* 2021, 8, 663-670.
7. “Multifunctionality in graphene decorated with cobalt nanorods” O. Mondal, S. Mitra, A. Datta, D. Chakravorty and M. Pal. *Mater Design.* 2016, 101, 204-209
8. “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.
9. “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.
10. “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.
11. “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.
12. “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.
13. “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.
14. “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.
15. “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.
16. “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.
17. “Strong and unusual violet-blue emission in ring shaped ZnO nanocrystals” Oindrila Mondal and Mrinal Pal. *J. Mater. Chem.*, 2011, 21, 18354–18358.

18. "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.
19. "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.
20. "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.
21. 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.
22. "Superparamagnetic fluorescent nickel–enzyme nanobioconjugates: synthesis and characterization of a novel multifunctional biological probe" Pramod Kumar Verma, AnupamGiri, Nguyen T. K. Thanh, Le Duc Tung, Oindrila Mondal, Mrinal Pal and Samir Kumar Pal. *J. Mater. Chem.*, 2010, 20, 3722–3728.