

Curriculum Vitae

Dayanidhi Mohanta, PhD

Male, Indian, 35 yrs

Phone: +91-7077255430

+91-8895674800

Email: dayamohanta@gmail.com

dayanidhimohanta@niser.ac.in



Personal Details:

D.O.B 4th Jan, 1987
Dhal's Residence, Plot No.
401/402,
Contact Details Nuasahi, Nayapalli,
Bhubaneswar
751012 (Odisha)
Father's Name Arjun Charan Mohanta

Academic Profile:

Name of the Degree	Year of Passing	Name of Institute/ University	Percentage (%)
X th	2002	ICSE, New Delhi	74.3
XII th	2004	ISC, New Delhi	78.5
BSc Bed	2008	Utkal University, Bhubaneswar	57.6
MSc (Chemistry)	2010	NIT Rourkela	72.0
MTech (Green Energy Technology)	2012	Pondicherry University, Puducherry	87.1
PhD (Computational Chemistry)	2019	NIT Rourkela	88.4

Achievements:

1. Recipient of **SAF Madanjeet Singh Group Fellowships (2010)** to pursue M.Tech (Green Energy Technology) from Centre for Green Energy Technology (CGET), Pondicherry University for the session 2010-2012.
2. Cleared **GATE 2013** with AIR 1138.
3. Got selected for **Talent Introduction Program-2019**, For Post-Doctoral Associate at Dalian University of Technology, China.

Area of Expertise: Computational Chemistry, Physical Chemistry

List of Publications: (ORCID:0000-0002-4696-1750)

1. **Mohanta, D.**; Jana, M. Effect of ethanol concentrations on temperature driven structural changes of chymotrypsin inhibitor 2. *J. Chem. Phys.*, **2016**, *144*, 165101-16517.
2. **Mohanta, D.**; Santra, S.; Naresh Reddy, G.; Giri, S.; Jana, M. Residue specific interaction of an unfolded protein with solvents in mixed water-ethanol solutions: A combined molecular dynamics and ONIOM study. *J. Phys. Chem. A*, **2017**, *121*, 6172-6186.
3. **Mohanta, D.**; Santra, S.; Jana, M. Conformational disorder and solvation properties of the key-residues of a protein in water-ethanol mixed solutions. *Phys. Chem. Chem. Phys.*, **2017**, *19*, 32636-32646.
4. **Mohanta, D.**; Jana, M. Can 2, 2, 2-trifluoroethanol be an efficient protein denaturant than methanol and ethanol under thermal stress? *Phys. Chem. Chem. Phys.*, **2018**, *20*, 9886-9896.
5. **Mohanta, D.**; Jana, M. Effects of ethanol on the secondary structure specific hydration properties of Chymotrypsin Inhibitor 2 in its folded and unfolded forms. *Molecular Simulation*, **2018**, *44*, 1278-1290.

Skills:

Languages Known	English, Hindi, Odia
Softwares	Matlab, Labview, Autodoc, VMD, Pymol, Origin, Xmgrace
Molecular Dynamics Packages	NAMD, AMBER
Applications	Latex, MS Office
Programming Languages	FORTRAN, C++, Shell Scripting
OS	MS Windows, Linux, Mac OS

Work Experiences:

1. Assistant Professor at G H Rasoni University, Amravati (MH) from July2018 to May2019.
2. Post-doctoral Research Associate at Dalian University of Technology, Dalian (China) from June2019 to December2020.
3. Post-doctoral Fellow at National Institute of Science Education and Research, Bhubaneswar (India) from February2022 onward.

Conferences Attended:

1. Poster presented in-house conferences/symposiums
 - a. Advances in Chemistry and their Biological and Industrial Relevance (ACBIR), 2014 organised by Department of Chemistry, NIT Rourkela

- b. Research Scholar Week (RSW) 2016 & 2017 organised by NIT Rourkela
 - c. Biomolecular Dynamics: Experimental and Theoretical Perspectives (BDTEP) 2017 organised by Department of Chemistry, NIT Rourkela.
2. Poster presented outside NIT Rourkela
 - a. 9th Mid-year CRSI Symposium in Chemistry 10-12th July-2014, CSIR-NEIST, Jorhat (Assam).
 - b. The 14th Theoretical Chemistry Symposium (TCS) 18-21st December-2014, CSIR-NCL Pune.
 - c. The 15th Theoretical Chemistry Symposium (TCS) 14-17th December-2016, jointly organised by University of Hyderabad, IIT-Hyderabad and IIIT-Hyderabad.

Extra-Curricular Activities:

1. Organized sports and cultural activities at RIE, Bhubaneswar, Odisha.
2. Departmental Co-ordinator of Dept. of Chemistry at Techfest' 11, NIT, Rourkela.
3. Represented M.Sc. students at the Training & Placement Cell, NIT, Rourkela.
4. Attended the first Science Conclave of Nobel Laureates at IIIT, Allahabad. Had interaction with laureates like Harry Kroto, Feynmann among others.

Industrial Visits:

1. Fresnel Reflector Desalination Prototype Plant at KG Design Pvt. Ltd., Coimbatore.
2. Solar Bowl (Used for heating steam to be used in Cooking) and Solar PV System Assembly at Auroville Sustainable community, Puducherry.
3. Bio-methanation plant visit at Mamallapuram, Tamil Nadu.
4. Amorphous Silicon Solar Cell Manufacturing unit at Maharishi Solar Pvt. Ltd., Srikalahasti, Andhra Pradesh.

Projects Undertaken:

1. Summer Project titled "Complexation of Pd(II) with Schiff Base" under the guidance of Dr. D. K. Chand, IIT, Madras.
2. M.Sc. Thesis titled "Synthesis and Characterization of Highly Crystalline Anatase Titania" under the guidance of Dr. A. Mondal, NIT, Rourkela, Odisha.
3. M.Tech. thesis titled "Optimizations of Biodiesel Blends" under the guidance of Dr. B. M. Jaffar Ali, Pondicherry University, Puducherry.

List of Referees:

1. Dr. Madhurima Jana

Associate Professor
Department of Chemistry
National Institute of Technology, Rourkela
Rourkela 769008 Odisha (India)
Contact No: 0661 2462663
Email: janam@nitrkl.ac.in
<https://www.nitrkl.ac.in/FProfile.aspx?janam>

2. Dr. Shijun Zhong

Professor,
School of Bioengineering
Dalian University of Technology
Dalian, Liaoning, 116024 (China)
Contact No: +86-13654922395
Email: sjzhong@dlut.edu.cn
<http://faculty.dlut.edu.cn/sjzhong>

3. Dr. Santanab Giri

Associate Professor
Department of Applied Sciences & Humanities,
Haldia Institute of Technology,
Haldia 721657 West Bengal
Contact No: +91-8249645014
Email: santanab.giri@gmail.com
<https://sites.google.com/site/santanabgiri/home>

4. Dr. B M Jaffar Ali

Professor,
Centre for Green Energy Technology,
Pondicherry University, Puducherry-605014
Contact No.: +919445200455
Email: jaffarali.bm@gmail.com
https://www.pondiuni.edu.in/faculy_profiles/dr-b-mohammed-jaffar-ali/