

Resume (CV)

1. Name and full correspondence address: Harekrushna Sahoo, Professor, Department of Chemistry, NIT Rourkela, Rourkela-769008, India
2. Email(s) and contact number(s): sahooh@nitrrkl.ac.in and +918249074243
3. Institution: National Institute of Technology (NIT), Rourkela (India)
4. Date of Birth: 24/01/1977
5. Gender (M/F/T): M
6. Category Gen/SC/ST/OBC: General
7. Whether differently abled (Yes/No): No
8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution
1	PhD	2007	Biophysical Chemistry	Jacobs University Bremen (Currently, Constructor University) Germany
2	Master of Technology (MTech)	2002	Corrosion Science & Technology	Burdwan University/NIT Durgapur
3	Master of Science (MSc)	2000	Physical and Nuclear Chemistry (Hons.), Organic, Inorganic & Analytical Chemistry	Utkal University, Bhubaneswar (India)
4	Bachelor of Science (BSc)	1998	Chemistry (H), Physics, Maths	Utkal University, Bhubaneswar (India)
5	Pre-university	1995	Chemistry, Biology, Physics, & Mathematics	Utkal University, Bhubaneswar (India)

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award

Title: Investigation of Structure, Dynamics and Conformation of Polypeptides by Fluorescence-Based Methods

Guide's Name: Prof. Werner M Nau

Institute: International University Bremen (Jacobs University Bremen), Germany

Year of Award: 2007

10. Work experience (in chronological order).

S. No.	Positions held	Name of the Institute	From	To
1	Professor	NIT Rourkela, India	07/2024	present
2	Visiting Scientist	Wroclaw University (Poland)	07/2023	12/2023
3	Visiting Scientist	Heinrich Heine University, Duesseldorf (Germany)	01/2023	04/2023
4	Associate Professor	NIT Rourkela, India	02/2020	06/2024
5	Visiting Scientist	Jacobs University (Bremen, Germany)	12/2021	12/2021
6	Assistant Professor	NIT Rourkela, India	05/2012	02/2020
7	Guest Scientist	MBC Dresden, Germany	01/2012	05/2012
8	Postdoctoral Fellow	Technical University Dresden (Germany)	01/2010	12/2011
9	Postdoctoral Fellow	University of Massachusetts-Amherst (USA)	04/2007	12/2009

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

	Name of Award	Awarding Agency	Year
1	Ulam fellowship	NAWA (Poland)	2023
2	International visiting scientist	ICMR-DHR (India)	2022
3	Appeared in top 2% influential scientists across the world	Stanford University, USA	2021, 2022, 2023
4	Research Stay Program	DAAD (Germany)	2021
5	Materials Research Program	DAAD (Germany)	2017

Patents:

1..Dr. Jitendra Kumar Sahoo, Dr. Diptikanta Acharya, Dr. Duryodhan Sahu, Mr. Ashrumochan Mohanty, Mrs. Juhi Rath, and Dr. HAREKRUSHNA Sahoo, Solar Powered Bore Well Water Purification System, 2023, Application No. 389205-001, 28/06/2023. (Design patent, Accepted)

2. Dr. Harekrushna Sahoo, Dr. Monalisa Mishra, Dr. Jitendra Kumar Sahoo, Mr. Ravi Tamira, and Mr. Lokanath Mishra, Improved and Efficient Process for Preparation of Daptomycin by Novel Solid Phase Peptide Synthesis Route and its Antimicrobial Activity, 2023, Application no. 42/2023, 20/10/2023 (Published)

Selected Publications (Last 5 years):

1. DP Behera, S Subadini, U Freudenberg, and H Sahoo, Sulfation of hyaluronic acid reconfigures the mechanistic pathway of bone morphogenetic protein-2 aggregation, International Journal of Biological Macromolecules 2024, 263, <https://doi.org/10.1016/j.ijbiomac.2024.130128>

2. PR Hota, DP Behera and H Sahoo, Interaction between Ammonium based Ionic Liquids and CRABP I Protein: A microenvironmental Spectroscopic Analysis, Journal of Molecular Liquids, 2024, 405, <https://doi.org/10.1016/j.molliq.2024.125017>

3. L. Satish, S. Santra, M. Jana, M. Tsurkan, C. Werner, & H. Sahoo, Conformational changes of GDNF-derived peptide induced by heparin, heparan sulfate, and sulfated hyaluronic acid – Analysis by circular dichroism spectroscopy and molecular dynamics simulation, International Journal of Biological Macromolecules, 2021, Volume 182, 1 July 2021, Pages 2144-2150

4. S. Subadini. K. Bera, J. Hritz, & H. Sahoo, Polyethylene glycol perturbs the unfolding of CRABP I: A correlation between experimental and theoretical approach, Colloids and Surfaces B: Interfaces, 2021, <https://doi.org/10.1016/j.colsurfb.2021.111696>

5. M. Konar and H. Sahoo, Tyrosine mediated conformational change in bone morphogenetic protein – 2: Biophysical implications of protein – phytoestrogen interaction, International Journal of Biological Macromolecules, 2020, 150, 727-736.

6. M. Konar, JK Sahoo, and H. Sahoo, Impact of Bone Extracellular Matrix Mineral based nanoparticles on structure and stability of purified Bone Morphogenetic Protein 2 (BMP 2), Journal of Photochemistry and Photobiology B, 2019, doi.org/10.1016/j.jphotobiol.2019.111563.

7. M. Konar and H. Sahoo, Phosphate and sulphate-mediated structure and stability of Bone Morphogenetic Protein - 2 (BMP - 2): A Spectroscopy enabled investigation, International Journal of Biological Macromolecules, 2019, DOI:10.1016/j.ijbiomac.2019.06.015.

Research Articles: 75 Books: 02 (edited) Book Chapters: 10

PhD Thesis: 06 guided and 09 ongoing