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@nitrkl.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	Visiting Scientist	Wroclaw University (Poland)	07/2023	12/2023
2	Visiting Scientist	Heinrich Heine University, Duesseldorf (Germany)	01/2023	04/2023
3	Associate Professor	NIT Rourkela, India	02/2020	present
4	Visiting Scientist	Jacobs University (Bremen, Germany)	12/2021	12/2021
5	Assistant Professor	NIT Rourkela, India	05/2012	02/2020
6	Guest Scientist	MBC Dresden, Germany	01/2012	05/2012
7	Postdoctoral Fellow	Technical University Dresden (Germany)	01/2010	12/2011
8	Postdoctoral Fellow	University of Massachusetts-Amherst (USA)	04/2007	12/2009

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

S. No	Name of Award	Awarding Agency	Year
1	Travel grant award	Royal Society	2025
2	Ulam fellowship	NAWA (Poland)	2023
3	International visiting scientist	ICMR-DHR (India)	2022
4	Appeared in top 2% influential scientists across the world	Stanford University, USA	2021, 2022, 2023, 2024
5	Research Stay Program	DAAD (Germany)	2021
6	Materials Research Program	DAAD (Germany)	2017

Patents:

1..Dr. Jitentdra 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. (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 (Filed)

Publications:

78. S Subadini, K Bera, Devi P Behera, J Hritz, and H Sahoo, Polyethylene Glycol-Based Refolding Kinetic Modulation of CRABP I Protein, Luminescence, 2024, https://doi.org/10.1002/bio.4924

77. R Das, P Mohanty, PP Dash, S Mishra, AK Bishoyi, L Mishra, L Prusty, DP Behera, D Dubey, M Mishra, H Sahoo, MS Khan, SK Sethi, and BR Jali, Unveiling the interaction, cytotoxicity and antibacterial potential of pyridine derivatives: an experimental and theoretical approach with bovine serum albumin, Naunyn-Schmiedeberg's Archives of Pharmacology, 2024, https://doi.org/10.1007/s00210-024-03541-6

76. H Shekhar, P Behera, A Naik, M Mishra, and H Sahoo, Interaction between polydopamine-based IONPs and human serum albumin (HSA): a spectroscopic analysis with cytotoxicity impact, Nanotoxicology, 2024, https://doi.org/10.1080/17435390.2024.2392579

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72. R Das, PP Dash, AK Bishoyi, P Mohanty, L Mishra, L Prusty, CR Sahoo, RN Padhy, M Mishra, H Sahoo, SK Sahoo, SK Sethi, BR Jali, Antibacterial and cytotoxicity studies of pyrrolo-based organic scaffolds and their binding interaction with bovine serum albumin, Naunyn-Schmiedeberg's Archives of Pharmacology 2024, https://doi.org/10.1007/s00210-024-03187-4

71. N Murmu, K Dash, J Panda, G Sahoo, H Sahoo, M Mishra, and SN Sahu, A biscoumarinyl hydrazone based nontoxic fluorescent dye for direct binding and imaging of actin in living cells and organism, Sensors and Actuators B: Chemical, 2024, 399, https://doi.org/10.1016/j.snb.2023.134741

70. PP Dash, P Mohanty, R Behura, S Behera, S Naik, M Mishra, H Sahoo, AK Barick, P Mohapatra, SK Sahoo, and BR Jali, Rapid colorimetric and fluorometric discrimination of maleic acid vs. fumaric acid and detection of maleic acid in food additives, Journal of Fluorescence, 2023, Accepted

69. R Behura, P Mohanty, G Sahu, PP Dash, S Behera, R Dinda, PR Hota, H Sahoo, R Bhaskaran, AK Barick, P Mohapatra, and BR Jali, A Highly Selective Schiff base Fluorescent Sensor for Zn2+, Cd2+ and Hg2+ based on 2, 4-dinitrophenylhydrazine Derivative, Inorganic Chemistry Communications, 2023, https://doi.org/10.1016/j.inoche.2023.110959

68. P Nayak, J Bag, SK Padhan, H Sahoo, and SN Sahu, M Mishra,Coumarin-Based Noncytotoxicity Fluorescent Dye for Tracking Actin Protein in In-Vivo Imaging, Chemical Research in Toxicology, 2023, 36, 6, 926–933.

67. S Millan, B Susrisweta and H Sahoo, Probing the interaction between niobium pentoxide nanoparticle and serum albumin proteins by spectroscopy approaches, Journal of Biomolecular Structure and Dynamics, 2023, Accepted

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63. S Mukherjee, N Nayak, S Mohapatra, JK Sahoo, H Sahoo, & M Mishra, Strontium ferrite as a nontoxic nanomaterial to improve metabolism in a diabetic model of Drosophila melanogaster, Materials Chemistry and Physics, 2022, https://doi.org/10.1016/j.matchemphys.2022.125906

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58. J. Rout, BC Swain, S. Subadini, PP Mishra, H. Sahoo, & U. Tripathy, Conformational dynamics of myoglobin in the presence of vitamin B12: A spectroscopic and in silico investigation, International Journal of Biological Macromolecules, 2021, 192, 564-573

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55. 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

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Research Articles: 78

Books: 02 (edited)

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Conference Abstracts: (03)

PhD Thesis: 07 guided (06 Supervisor and 01 co-supervisor) and 09 ongoing