

Sandhyamayee Sahu(PhD)	Affiliation:	Mailing address:	
Citizenship: Indian Languages: Odiya (Native), English (Fluent), Hindi (Fluent)	Assistant Professor Dept of Chemistry, Govt. Women's College, Dist: Sambalpur, ODISHA, Contact Number: 9337630863	At: Katardhua Bondha PO: Budharaja, Dist: Sambalpur, ODISHA, PIN:768004.	
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Educational Details:

2007-2010	Doctor of Philosophy in Organic Chemistry, Sambalpur University, Jyoti Vihar – Burla, Odisha(INDIA) Thesis: Oxidation of organic substrates by Cetyltrimethylammonium Dichromate. Advisor: Prof. B K Mishra
2004	Did a piece of research work for the partial fulfillment of M. Phil degree and submitted a dissertation entitled “ Oxidation of Oximes by Cetyltrimethylammonium Dichromate ”
2001-2003	Master in Chemistry with Organic Chemistry Specialization(2003)
1998 - 2001	Graduation in Chemistry (Hons.) with Math. and Phy. as optionals(1998-2001)

Research Interest:

- Organic Synthesis
- Peptide Synthesis
- Studies on reaction Kinetics and Mechanism
- Surface Science
- Photochemistry

Research Experience:

Sir J. J. Ghandy Fellow 01/03/2008 to 04/25/2008	“Oxidation of organic substrates by Cetyltrimethylammonium Dichromate”
UGC Research Project Fellow 04/26/2008 to 10/30/2008	“Selective oxidation of organic substrates having bi/multifunctional groups by Cetyltrimethylammonium Dichromate”
Senior Research Fellow (CSIR) 05/11/2008 -01/04/2011	“Selective oxidation of organic substrates having Sulphur and Nitrogen functionality by Cetyltrimethylammonium Dichromate”
Senior Research Fellow Extn.(CSIR) 02/04/2011-01/07/2012	“Studies on electrochemical behavior of some amphoteric oxidants in water-acetic acid and organic media by using cyclic voltametry”
Postdoctoral Associates, Department of Chemistry, University of Florida, USA 01.13.2012 -10.07.2013	Heterocyclic Chemistry, Peptide Chemistry
Research Associate(CSIRProject), School of Chemistry, Sambalpur University, Jyoti Vihar, Burla, Odisha, India. 27/08/2013-31.01.2015	“Quaternary Ammonium Ferricyanide: A Lipophilic Reagent for oxidation of organic substrate in organic Solvents.”

Teaching Experience:

- Four years teaching experience in G. M. College, SBP from the session (Biochemistry, Organic Reaction mechanism, Chemical Kinetics in graduate and Post graduate classes)
- One year teaching experience in VSSUT, Burla (Chemical Kinetics, Chemical Equilibria and Thermodynamics, Solid state of matter)
- 06 years 10 months 23 days(from 05.10.2016 to 28.08.2023) teaching experience in Women's College Bargarh as Regular SSB Lecturer
- From 29.08.2023 as Assistant Professor in Chemistry, Govt. Women's College, Sambalpur

Selected Awards:

- Prof. R. K. Nanda Award for best paper presentation in 21st Annual Conference of Orissa Chemical Society **2004**.
- Prof. R. K. Nanda Award for best paper presentation in 24th Annual Conference of Orissa Chemical Society **2007**.
- Best Paper prize in the DAE-BRNS International Symposium on Emerging Trends in Separation Science and Technology (SESTEC-2010) held at IGCAR, Kalpakkam, Tamilnadu, during March 1-4, **2010**
- Honorary poster selection, 13th Annual Florida Heterocyclic and Synthetic Conference, March 4-7, **2012**, University of

Florida, Gainesville, Florida, USA.

- Doctor Mahamaya Pattanaik Shmruti Samman, 16th Annual Conference of Odisha Bigyan Prachar Samiti, Cuttack, **2013**
- 3rd Prize in ACS Omega Oral Presentation in the International Conference” Chemical and Biological Science in Drug Discovery”-2019 (IC-CBSDD-2019) held at Department of Chemistry, Berhampur University during 8-10th March **2019**

Skills:

- NMR
- HPLC
- UV-Vis Spectrophotometer
- Fluorimeter
- Langmuir Blodgett Film Deposition System
- IR Spectrophotometer
- Atomic Absorption Spectrometer
- Cyclic Voltmeter
- Differential Scanning Calorimeter

Research Publications:

1. **Sandhyamayee Sahu**, Sabita Patel and B. K. Mishra, Selective oxidation of arylaloximes by cetyltrimethylammonium dichromate to arylaldehydes and aryl nitriles, *Synth. Comm.*, 35 (2005) 3123
2. **Sandhyamayee Sahu**, Sagarika Sahu, Sabita Patel, Sukalyan Dash & Bijay K. Mishra “Deoxygenation Of Keto- and Aldoximes to Carbonyl Compounds” *Indian J. Chem.*, 47B (2008) 359.
3. Biswa B Nayak, **Sandhyamayee Sahu**, Sabita Patel, Sukalyan Dash & Bijay K Mishra, “Ce(IV) Oxidation using Cetyltrimethylammonium Cericonitrate (CTACN)-Oxidation of Alcohols”, *Indian J. Chem.*, 47A (2008) 1486.
4. B. K. Mishra, **Sandhyamayee Sahu**, S. Padhan and Sabita Patel, “Detection of of tight ion pair in some novel lipophilic oxidants from the monolayer at air water interface”, *Indian J. Chem.*, 48A (2009) 1527-1531.
5. **Sandhyamayee Sahu**, Prangyanrani Sahoo, Sabita Patel and B.K.Mishra, “Oxidation of Arylthiourea by Cetyltrimethylammonium Dichromate” *Synth. Comm.*, 40 (2010) 3268.
6. Prangyanrani Sahoo, **Sandhyamayee Sahu**, Sabita Patel And B.K. Mishra, “Oxidation Kinetics Of Aryl Thioureas By Cetyltrimethylammonium Dichromate” *Indian J. Chem.: Section A*, 49A (2010) 1483.
7. **Sandhyamayee Sahu**, Prangya Rani Sahoo, Sabita Patel and B.K. Mishra “Oxidation of Thiourea and Substituted Thioureas: A Review”, *Journal of Sulfur Chemistry*, 32 (2011) 171.
8. **Sandhyamayee Sahu**, Sabita Patel and Bijay K Mishra, “Deoxygenation by Cetyltrimethylammonium Dichromate: A Kinetic Study”, *International Journal of Chemical Kinetics*, 43 (2011) 482-88.
9. Partha Mukherjee, **Sandhyamayee Sahu**, Susanta Pradhan, Sukalyan Dash, Sabita Patel, P K Mohapatra, Bijay Mishra, Temperature induced emulsification and demulsification of pseudoternary mixtures of Tween80-butanol-kerosene-water system, *Ind. Eng. Chem. Res.*, 50 (2011) 11889.
10. Sibani Behera, **Sandhyamayee Sahu**, Sabita Patel and Bijay K Mishra, Sisal fiber: A potential raw material for handmade paper, *Indian Journal of Pulp and Paper Technology A*, 24 (2012) 37.
11. Mamata Manjari Sahu, **Sandhyamayee Sahu**, Sabita Patel, Sukalyan Dash and B. K. Mishra, “Photo-physical behavior of some substituted triaryl-1H-imidazole”, *Indian J. heterocyclic Chem.* (Accepted).
12. **Sandhyamayee Sahu**, Iryna O. Lebedyeva, Siva S. Panda, Alan R. Katritzky, Peptidial benzotriazolide-mediated acylation of nitrile-activated methylene groups, *Synthesis* (2013).
13. **Sandhyamayee Sahu**, Siva S. Panda and Alan R. Katritzky, Acetaminophen bis-Conjugates with NSAIDs and Carnosine, *Synthesis* (2013).
14. Anand D. Tiwari, Siva S. Panda, Adel S. Girgis, **Sandhyamayee Sahu**, Riham F. George, Aladdin M. Srouf, Brian La Starza, Abdullah M. Asiri, C. Dennis Hall, and Alan R. Katritzky “Microwave assisted synthesis and QSAR study of novel NSAID acetaminophen conjugates with amino acid linkers”, *Organic and Biomolecular Chemistry*. (2014)12, 7238-7249.
15. **Sandhyamayee Sahu**, Prangyanrani Sahoo and B.K. Mishra, “Alkylammonium ions as carriers of metal oxidants: A Review”, *Current Organic Chemistry*, (2017), 21, 613-651.
16. **Sandhyamayee Sahu**, Electrochemical behavior of a novel oxidant: Cetyltrimethylammonium Ferricyanide (CTAFC) by using glassy carbon (GCE), *Manuscript under preparation*.

Conference Proceedings:

1. Heteropendant Grafting on Silica Gel for Preconcentration of Metal ion, page:227-228, 01-03-2010, IGCAR, Kalpakkam, Proceedings of DAE- BRNS Biennial Symposium on Emerging Trends in Separation Science and Technology, SESTEC-2010, ISSN:9788183720552
2. Cetyltrimethylammonium Dichromate: A Novel Lipophilic Oxidant, Page:486-487, 07-12-2010, BARC, Mumbai Proceedings of DAE-BRNS, 3rd International Symposium on Materials Chemistry, ISMC-2010 ISSN:8188513407.

Invited talk:

1. Metals and Non Metals in the Webinar organized by **Odisha Bighyan Academy**, BBSR for High School Science Teacher and Students on Dt. 28.09.2020.

Refresher Course/ Faculty Development Programme:

1. Secured grade **A** in one week online National Faculty Development Programme/ Refresher Course organized by Guru Angad Dev Teaching Learning Centre, S. G. T. B. Khalsa College, University of Delhi under Pandit Madan Mohan Malaviya National Mission on Teacher and Teaching (PMMMNTT) of Ministry of Education, from 25th February to 03rd March **2021**.
2. Secure grade **A⁺** in two weeks online Refresher Course organized by UGC-Human Resource development, Sambalpur University from 15th to 28th July **2021**.
3. Successfully completed the Faculty Development Programme/ Training at Talent Development Centre (TDC), Science and Society Programme, Challakere Campus, IISc, Bangalore from 19th to 29th November **2021**.
4. Secure grade **A⁺** in two weeks online Refresher Course "**FRONTIERS IN CHEMISTRY**" organized by UGC-Human Resource development, Sambalpur University from 24.10.2024 to 06.11.2024.

Conference attended:

1. 18th Annual Conference, Orissa Chemical Society **2004** (College Of Basic Science, OUAT, Bhubaneswar)
2. 19th Annual Conference, Orissa Chemical Society **2005**, (Sambalpur University Jyoti Vihar, Burla)
3. National Seminar on "Recent Trends In Chemical Sciences" on 23-25th March, **2007**, Sambalpur University, Jyoti Vihar, Burla
4. 21st Annual Conference, Orissa Chemical Society, **2007** (Orissa Engineering College, Bhubaneswar)
5. National Seminar on "Recent Trends In Chemical Sciences" on 9-11th February, **2008**, Sambalpur University, Jyoti Vihar, Burla
6. National Seminar on "Recent Trends In Chemical Sciences" on 9-11th February, **2009**, Sambalpur University, Jyoti Vihar, Burla.
7. NATCOSEB-XIV, 28th -30th July-**2009**, Department of Chemistry, University of Kashmir, Shrinagar, J&K.
8. National Seminar on "Recent Trends In Chemical Sciences" on 19-21st February, **2010**, Sambalpur University, Jyoti Vihar, Burla.
9. DAE-BRNS International Symposium on Emerging Trends in Separation Science and Technology (SESTEC-2010) held at IGCAR, Kalpakam, Tamilnadu, INDIA, during March 1-4, **2010**.
10. National Seminar on "Recent Trends In Chemical Sciences" February, **2011**, Sambalpur University, Jyoti Vihar, Burla.
11. 13th Annual Florida Heterocyclic and Synthetic Conference, March 4-7, **2012**, University of Florida, Gainesville, Florida, USA
12. The 14th Annual Florida Heterocyclic and Synthetic Conference 3-6th March, **2013**, University of Florida, Gainesville, Florida, USA.
13. National Seminar on "Recent Trends In Chemical Sciences", 26-27th October, **2013**, Sambalpur University, Jyoti Vihar, Burla.
14. National Seminar on "Recent Trends In Chemical Sciences", 22-23rd March November, **2017**, Sambalpur University, Jyoti Vihar, Burla.
15. National conference on Surfactants, Emulsions and Biocolloids (NATCOSEB)- **2017** organised by School of Chemistry and Indian Society for Surface Science and Technology (ISST) on 10-12th November-**2017** at Sambalpur University.
16. National Seminar on "Recent Trends In Material Science (RTMS-2019) 18-19th March-**2019**, School of Physics and Chemistry, Gangadhar Meher University, Amruta Vihar, Sambalpur.
17. International Conference "Chemical and Biological Science in Drug Discovery"-2019(IC-CBSDD-2019) 8-10th March **2019**, Department of Chemistry, Berhampur University.
18. 7th National Conference on Recent Advancement in Material science (RAIMS-2022) and 26th Regional Conference of "Orissa Chemical Society (OCS)" 18-19th November, **2022**, Department of Chemistry, Veer Surendra Sai University of technology, Burla, Sambalpur.
19. National Seminar on Recent Trends in Chemical Science (RETICS -2024) organised by School of Chemistry, Sambalpur University from March 1-3, **2024**.
20. National Seminar on "Rediscovering Roots: The Relevance of Indian Knowledge System in Contemporary

Scenario” 3-5th October, 2024.

21. National Seminar on "**Global Perspectives of Mental Health: Integrating Value and Life Skills Education**" to be held on **25-26 April 2025** in Govt. Women's College, Sambalpur, Odisha

Workshops attended:

1. SPSS Workshop, 17th- 19th Sept **2009** Department of Statistic, Sambalpur University, Jyoti Vihar, Burla, Orissa.
2. UGC Sponsored Workshop for Research Scholars in Science Faculties on "**Instrumentation and Statistical Methods in Scientific Research**", 9-14th November, **2009** , UGC-Academic Staff College, Sambalpur University, Jyoti Vihar, Burla, Orissa.
3. DST Sponsored SERC Winter School on GREEN CHEMISTRY- "**Research, Teaching and Applications: Exploring opportunities in GREEN CHEMISTRY**" 7-22 March **2011**", Indian Institute of Technology Guwahati, Guwahati-Assam.
4. NSS Workshop held on "**Road Safety and First Aid for NSS Volunteers of Sambalpur Metro**" 30th and 31st of August **2024**.
5. NSS "**Inter District Youth leadership Training Camp**" at Kesaibahal, Dist: Sambalpur from 07th to 09th February **2025**.

Other activities

1. Associate NSS Programme Officer, Mega blood donation Camp, 15th December **2024**
2. Associate NSS Programme Officer, Walkathon to commemorate the Sacrifice of heroes of Kudopali, Sambalpur, 30th December **2024**
3. Guide Teacher, Celebration of national voter's Day, on dt.25.01.**2025**
4. Associate NSS Programme Officer, Inter district Level Youth Leadership Training Camp, BGD College, Kesaibahal, dt. 07th to 9th February **2025**
5. Guide Teacher, District Level Vikshit Bharat Youth Parliament debate Competition, **2025**, dt. 22-23th March **2025** at Department of Biotechnology, Sambalpur Univerity
6. Team leader of youth of Sambalpur and Jharsuguda District, State Level Vikshit Bharat Youth Parliament debate Competition, **2025**, 26thMarch, Conference Hall, Odisha Legislative Assembly, Bhubaneswar

I hereby declare that the information given above is correct to the best of my knowledge.

Sandhyamayee Sahu