CURRICULUM VITAE

Name: Miss Manisha Nayak
Position: Assistant Professor (OES-I)
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Google Scholar Link:
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Educational Background:

Sl. No.	Degree	University/Institution	Discipline	Year of Completion
1.	BSc.	Ravenshaw University, Cuttack, Odisha, India	Chemistry	2015
2.	MSc.	Indian Institute of technology Guwahati, Assam, India	Chemistry	2018
3.	Ph.D.	National Institute of Science Research and Education, Jatni, Khorda, Odisha, India	Chemistry	Continuing

Professional Background:

Sl. No	Position held	Name of the Institute	Joining	held up to
1.	Lecturer in Chemistry	Baruneswar Mohavidyalaya, Arei, Jajpur	Nov, 2022	Sep, 2023
2.	Assistant Professor, (OES-I)	Bhadrak Autonomous College, Bhadrak	Sep, 2023	Continuing

Awards/ Achievements:

Sl. No	Award Name	Agency	Year
1.	UGC-CSIR NET/JRF	CSIR	2018
2.	CSIR-SRF	CSIR	2020
3.	IIT-JAM	IIT	2016

Publications: **Citations: 43 | h-index: 3 | i-10 index: 3 (Source: google scholar)**

1. **M. Nayak**, P. Nayak, K. Sahu, and S. Kar, Synthesis, characterization, and application of oxo-molybdenum (V)-Corrolato complexes in epoxidation reactions. ***The Journal of Organic Chemistry***, **2020**, *85*(18), 11654-11662.
2. K. Sahu, S. Angeloni, J. Conradie, M. Villa, **M. Nayak**, A. Ghosh, P. Ceroni, and S. Kar, NIR-emissive, singlet-oxygen-sensitizing gold tetra (thiocyano) corroles. ***Dalton Transactions***, **2022**, *51*(35), 13236-13245.
3. P. Nayak, **M. Nayak**, K. Meena, and S. Kar, Oxo (corrolato) vanadium (IV) catalyzed epoxidation: Oxo (peroxo)(corrolato) vanadium (V) is the true catalytic species. ***New Journal of Chemistry***, **2022**, *46*(10), 4634-4646.
4. P. Nayak, **M. Nayak**, S. Kar, and S. Kar, Vanadium (IV)-oxo Corrole Catalyzed Selective Oxidative Cleavage of Alkenes to Aldehydes. ***European Journal of Inorganic Chemistry***, **2023**, *26*(31), e202300353.
5. P. Nayak, A.K. Singh, **M. Nayak**, S. Kar, K. Sahu, K. Meena, D. Topwal, A. Indra, and S. Kar, Structural modification of nickel tetra (thiocyano) corroles during electrochemical water oxidation. ***Dalton Transactions***, **2024**, *53*(35), 14922-14932.

Conferences attended:

1. **Participated and delivered oral presentation (Virtual Event)** on the topic *"Synthesis, Characterization, and Application of OxoMolybdenum(V)- Corrolato Complexes in Epoxidation Reactions"* in the 27th **International Conference** of International Academy of Physical Sciences (CONIAPS XXVII) on Recent Advances in Catalysis Science & Engineering (RACSE), held on 26-28 October, 2021, organized by Department of Chemistry, National Institute of Technology (NIT) Jamshedpur Jharkhand, India.
2. **Participated and delivered oral presentation (Virtual Event)** on the topic *"Oxo-Molybdenum(V)-Corrolato Complex: Synthesis, Characterization, and Application in Epoxidation Reactions"* in the **International e-Conference** on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021), held on June 28-30, 2021, jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam.
3. **Participated and delivered oral presentation (Virtual Mode)** on the topic *"Synthesis, Characterization, and Application of OxoMolybdenum(V)- Corrolato Complexes in Epoxidation Reactions"* in the **International Conference** on Materials Science for Sustainable Environment (ICMSSE-2022), held on August 23-24, 2022, organized by PG and Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli.

Mentoring experiences:

Sl. No.	Details
1.	Mentored **4** B.Sc. dissertations of Bhadrak Auto. College, Bhadrak
2.	Mentored **2** M.Sc. dissertations of Bhadrak Auto. College, Bhadrak

Courses Taught/ Teaching:

Class	Details
UG	**CC-V**: **Inorganic Chemistry-II** (UNIT-I: General Principles of Metallurgy, Acids and Bases; UNIT-II: Chemistry of *s* and *p* Block Elements-II; UNIT-IV: Noble Gases, Inorganic Polymers) **CC-V Practical: Inorganic Chemistry-II Lab** **CC-VIII**: **Inorganic Chemistry-IIII** (UNIT-IV: Bioinorganic Chemistry) **DSE-II**: **Green Chemistry** (UNIT-III: Examples of Green synthesis/reactions and some real-world cases-I)
PG	**CC-101**: **Inorganic Chemistry-I** (UNIT-I: Symmetry and Group Theory) **CC-104**: **Spectroscopy-I** (UNIT-II: Electronic Spectroscopy, Raman Spectroscopy; UNIT-III: Mossbauer Spectroscopy; UNIT-IV: Instrumental Method of Analysis: X-ray Diffraction) **CC-201**: **Inorganic Chemistry -II** (UNIT-I: Electronic Spectra and Magnetic Properties of Transition Metal Complexes) **CC-301**: **Spectroscopy-II** (UNIT-III: Mass Spectrometry) **CC-303**: **Bioinorganic and Supramolecular Chemistry** (UNIT-II: Enzymes exploiting acid catalysis; UNIT-III: Metals in medicine) **CC-304**: **General Industrial Chemistry** (UNIT-II: Fertilizers, Cement, Sugar) **CC-401**: **Environmental & Analytical Chemistry** (UNIT-II: Agricultural and Fuel Analysis) **CC-403**: **Organo-Transition Metal Chemistry** (UNIT-I: Alkyl and Aryls of Transition Metals, Compounds of Transition Metal-Carbon Multiple Bonds; UNIT-II: Transition Metal π-complexes)

Position Held, at Bhadrak Autonomous College, Bhadrak:

Sl. No.	Details
1.	OIC & Member of Scholarship Cell
2.	OIC & Member of Students' Grievance Cell
3.	OIC & Member of Welfare Cell for Divyangjan
4.	Mentor, UG 3rd Year Students (2021-2024 Batch), Bhadrak Autonomous College, Bhadrak