



*Dr. Bharati Behera*

**Designation:** Faculty in Chemistry

**Qualification:** M.Sc, M. Phil., PhD

**Date of Birth:** 04.07.1986

**Date of Joining:** 01.12.2021

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**WOS:**

### Area of Interest

Studies on reactivities of transition metal aqua ions with drugs and biomolecules and their antimicrobial study.

### Courses taught

Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Chemistry, Green Chemistry, Environmental Chemistry

### Career

Faculty in Chemistry (2021-present): Rama Devi Women's University, Bhubaneswar

### Teaching Experience

4 years

### Research Experience

5 years

### Journal publications (Give the entire list of publication in Scopus/SCI-WoS/UGC care only)

1. Kinetics and mechanism of interaction of cis-diaquabis(oxalato) chromate (III) with cefoperazone in aqueous medium : as an antibacterial study J. Behera, **B. Behera**, *J. Pharm. Innov.*, 1-10 (2018).
2. Nonenzymatic NADH-dependent reduction of cis-[Co(en)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>]<sup>3+</sup> in aqueous mediu. **B. Behera**, J. Behera, *Int. J. Adv. Chem.*, **6(2)**, 163-166, (2018)

3. Role of Ru(III) as an inhibitor in oxidation of arabinose and ribose by  $[\text{Cu}(\text{bipy})_2]^{2+}$  in alkaline medium : spectrophotometric and kinetic studies. **B. Behera**, J. Behera, *Asian. J. Chem.*, **30(1)**, 138-144 (2018)
4. Drug-metal ion interaction: kinetics and mechanism of interaction of cis-bis(oxalato) diaquo chromium (III) ion with ampicillin in aqueous medium. **B. Behera**, J. Behera, *Chem. Sci. Trans.*, **6(4)**, 535 (2017).
5. Kinetics and mechanistic study of oxidation of biotin (vitamin B<sub>7</sub>) by vanadium (V) an insulin mimic compound at low pH (Communicated).