

Dr. Kavya K. Nayak

Designation : Assistant Professor

Qualification : M.Sc., Ph.D.

Experience : Research - 6 years

Area of Interest : Electrochemical Sensors

Date of Joining at RVCE : 24/11/2025

Email ID : kavyakn@rvce.edu.in

Publication

National Journals	National Conferences	International Journals	International Conferences	Book/Book Chapter Published	Patent Granted
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List of International Journal Publications:

- Kavya K. Nayak, Vinod Kumar Dorai, Rakesh Kumar Pradhan, Siddharth Jhunjhunwala, and Navakanta Bhat “An electrochemical continuous glucose monitoring sensor utilizing ferrocene-derivative as a mediator”, *Microchemical Journal*, 2025 (*Accepted for Publication*)
- Kavya K. Nayak and Navakanta Bhat, "Optimization of a Ferrocene Carboxylic Acid-Based Enzymatic Glucose Sensor for Continuous Glucose Monitoring", *IEEE Sensors Journal*, 2024.
- Saroj Kumar Das, Kavya K. Nayak, P. R. Krishnaswamy, Vinay Kumar and Navakanta Bhat, “Review—Electrochemistry and Other Emerging Technologies for Continuous Glucose Monitoring Devices”, *ECS Sensors Plus* 2022.
- K. Mahendra, Kavya K. Nayak, Brian Jeevan Fernandes, and N.K. Udayashankar, “Gamma irradiation effect on structural, optical and electrical properties of organometallic potassium hydrogen oxalate oxalic acid dihydrate single crystal”, *Journal of Materials Science: Materials in Electronics*, 2018.
- K. Mahendra, Kavya K. Nayak, and N.K. Udayashankar, “Negative photoconductivity in metal-organic potassium oxalate oxalic acid dihydrate single crystal”, *Materials Research Express*, 2018.

Papers presented in Conference:

- Kavya K. Nayak and Navakanta Bhat, "Continuous Electrochemical Glucose Detection Using Ferrocene Carboxylic Acid Chemistry," *IEEE Applied Sensing Conference (APSCON)*, Goa, India, 2024.

Awards:

- Best Poster Award at CeNSE Student Research Symposium - 2023
- Recipient of DST-INSPIRE Fellowship
- Cleared Karnataka State Eligibility Test (KSET)-2018.