

CURRICULUM VITAE

Dr. RUKAYA BANU

D/o Ghanisab F.R, Banajigara keru, Old kumsi,
Shivamogga(T)(D), Karnataka, India, Pin-577423

Ph.No.☎:-+918217617859,
+99591765774.

Mail ID: rukayabanu95@gmail.com

CAREER OBJECTIVE

I seek challenging opportunities in the chemical science department where i can fully use my skills for the success of the organization as well as for my self

EDUCATIONAL QUALIFICATION

	Educational Qualification	Institution	Year of Qualifying	Specialization
1	B.Sc.	Sahyadri Science College , Shivamogga India	2015	Industrial Chemistry, Chemistry, Mathematics
2	M.Sc.	Dept. of P.G.Studies and Research in Industrial Chemistry, Jnana Sahyadri, Kuvempu University, Shivamogga, India	2017	Industrial Chemistry
3	Ph.D	Dept. of P.G.Studies and Research in Industrial Chemistry,Jnana Sahyadri, Kuvempu University, Shivamogga,India	2023	Biosensor and Nanoscience, Electrochemistry

Ph.D. TITTLE:

**ELECTROCHEMICAL SENSOR FOR THE DETERMINATION OF
SEROTONIN USING DIFFERENT MODIFIED ELECTRODES: A
VOLTAMMETRIC STUDY**

Research Supervisor: Dr. B. E. KumaraSwamy
Professor
Dept. of P.G. Studies and Research in Industrial Chemistry
Kuvempu University

Google scholar: <https://scholar.google.co.in/citations?user=he8PggAAAAJ&hl=en>

Research gate: <https://www.researchgate.net/scientific-contributions/Rukaya-banu-2183466141>.

RESEARCH EXPERIENCE

- **Researcher:**(2018-23)
Kuvempu University, Department of P.G. Studies and Research in Industrial Chemistry, Shankaraghatta, 577451, Shimoga, Karnataka, India.

TEACHING EXPERIENCE

	Courses taught	Institution	Number of Years	Level:UG/PG/School/Other
1	B.Sc	Smt. Indira Gandhi Govt. First Grade Women's College, Sagara.	5 months	UG
2	M.Sc	Dept. of P.G. Studies and Research in Industrial Chemistry, Kuvempu University	February-2023 to present	PG

AREA OF RESEARCH:

- Developing sensors for biomolecules, drugs and organic pollutants
- Synthesis of Nanomaterials and characterization of Nanomaterials
- Electrochemistry
- Preparation of Modified Electrodes
- Voltammetric Studies

PUBLICATIONS/JOURNALS

1. **Rukaya Banu**, B. E. Kumara Swamy and S. Deepa, Poly(fast sulphone black F) modified pencil graphite electrode sensor for serotonin, *Sensors International*, **1(2020)100044**.
2. **Rukaya Banu**, B. E. Kumara Swamy, Poly (Bromocresol purple) incorporated pencil graphite electrode for concurrent determination of serotonin and levodopa in presence of L-Tryptophan: A voltammetric study, *Inorganic Chemistry Communication*, **141(2022)109695**.
3. **Rukaya Banu**, B. E. Kumara Swamy, G. K. Jayaprakash, S.C. Sharma, Simultaneous resolution of serotonin and epinephrine at poly(Victoria blue B) amplified carbon paste electrode: A voltammetric study. *Inorganic Chemistry Communication*, **144(2022) 109627**.
4. **Rukaya Banu**, B. E. Kumara Swamy, Eno Ebenso, Voltammetric Analysis of Serotonin and Epinephrine in Presence of Guanine and Adenine at Bismarck brown R Amplified Graphite Pencil Electrode. *Inorganic Chemistry Communication*, **144(2022) 109868**.
5. **Rukaya Banu**, B. E. Kumara Swamy, Eno Ebenso, A glassy carbon electrode modulated with poly(Naphthol green B) for simultaneous electroanalysis of Serotonin and Epinephrine in presence of L-tryptophan, *Inorganic Chemistry Communication*, **145 (2022) 110013**.

6. **Rukaya Banu**, B. E. Kumara Swamy, Electrochemical sensor facilitated by synthesis of CdO nanoparticles amplified pre-treated carbon paste electrode for quantification of serotonin in the presence of epinephrine, *Analytical & Bioanalytical Electrochemistry*, **15(2) (2023) 102-117**.
7. **Rukaya Banu**, B. E. Kumara Swamy, A selective electrochemical sensing of Serotonin and Epinephrine at glassy carbon electrode modulated with brilliant green: A voltammetric study. *Current Analytical Chemistry*, **19 (2023) 339-347**.
8. **Rukaya Banu**, B. E. Kumara Swamy, G. K. Jayaprakash, Simultaneous detection of levodopa and serotonin using poly (CR) functionalised-MWCNT amplified carbon paste electrodes: A voltammetric investigation with Fukui analysis. *Sensing Technology*, **2 (2024) 1-37**.
9. S. B. Arpitha, B. E. Kumara Swamy, **Rukaya Banu**, Electrochemical studies of Catechol and Hydroquinone at Poly(Nigrosine) modified Carbon paste electrode : A cyclic voltammetric study. *Sensing Technology*, **1 (1)(2023) 1-37**.

Participated and presented Papers in International and National Conferences

1. **Rukaya Banu**, National conference on “**Industrial applications of Electrochemistry**” organized by Department of Chemistry, PES institute of technology and Management, Shivamogga on 13th and 14th July 2020.
2. **Rukaya Banu**, One week virtual faculty development programme on “**Materials and Medicinal Chemistry-2020 (MMC)**” organized by Department of Chemistry, Don Bosco institute of technology, Bangalore on 10-15th August 2020.
3. **Rukaya Banu**, Webinar on “**Plagiarism**” organized by Sri Venkateshwara college of Engineering in association with International Journal of advance Study and Research Work on 16th August 2020.
4. **Rukaya Banu**, Five days faculty development program on “**Insight In to Analytical techniques and its applications**”(IATA-2021), organized by Department of Chemistry, Acharya institute of graduate studies on 21st to 25th June 2021.
5. **Rukaya Banu**, International webinar on “**Synthetic methods of nanoparticles and their interesting properties**” organized by Department of Physics/Chemistry, MGVC arts, commerce and science college, Muddebihal on 4th august 2021.
6. **Rukaya Banu**, B. E. Kumara Swamy **Poly(fast sulphone black F) modified pencil graphite electrode sensor for serotonin. International virtual conference on “Emerging trends in Nanoscience &**

Nanotechnology” organized by College of Engineering and Technology, Srinivas University, Mangaluru on 6th and 7th August 2021.

7. **Rukaya Banu**, B. E. Kumara Swamy, **Poly (Bromocresol purple) incorporated pencil graphite electrode for concurrent determination of serotonin and levodopa in presence of L-Tryptophan: A voltammetric study. National conference on “Impact of Chemistry and Biology to the Society and Industry”** organized by Department PG and Research in Industrial Chemistry, Kuvempu University, Shankaraghatta on 20th and 21st May 2022.
8. **Rukaya Banu**, International conference on **“Chemical sciences: Academia, Industry & society interface(ICCS-2022)”** organized by Department of Chemistry, post graduation centre, Jyothi Nivas College autonomous, Bangalore on 23rd to 25th June 2022.
9. **Rukaya Banu**, National conference on **“Recent Advances in Chemical Science”** organized by Department of Chemistry, J.S.S. Arts, Science and Commerce College, Gokak on 23rd July 2022.
10. **Rukaya Banu**, Electrochemical sensor facilitated by synthesis of CdO nanoparticles amplified pre-treated carbon paste electrode for quantification of serotonin in the presence of epinephrine. International conference on **“Recent Trends in Chemistry”**, organized by Department of Chemistry, Field Marshal K M Cariappa College, Madikeri on 23rd November 2021.

PERSONAL STRENGTHS

Communication Skill, Interpersonal Skills, Dedication, Ability to work in team as well as an individual, hard work and smart work, patience, loyalty.

ADDITIONAL QUALIFICATION

- **COMPUTERSKILLS:**
Fundamental of Computer, DOS, Windows, MS-Word, MS-PowerPoint , Networking and tally trp 9.0

PERSONAL PROFILE

Name	:	Dr. Rukaya Banu
Date of Birth	:	6 th March 1995
Gender	:	Female
Marital Status	:	Single
Father’s name	:	Ghanisab F R
Permanent Address	:	Banajigara keru, Old kumsi, Shivamogga, Karnataka, India-577423
Linguistic proficiency	:	English, Hindi, Urdu and Kannada.

REFERENCE

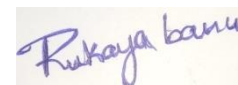
<p>Dr. B.E.KumaraSwamy Professor Dept. of P.G. Studies and Research in Industrial Chemistry Kuvempu University Shivamogga Karnataka, INDIA Email:kumaraswamy21@gmail.com ☎:+919900513796</p>	<p>Prof. H. S Bhojya Naik Dept. of P.G.Studies and Research in Industrial Chemistry KuvempuUniversity, Shivamogga Karnataka, INDIA Email:hsbnaik@gmail.com ☎:+919448438281</p>
<p>Prof. K.Vasanthakumar Pai Professor Dept. of P.G. Studies and Research in Industrial Chemistry Kuvempu University Shivamogga Karnataka, INDIA Email:vasantapai@gmail.com ☎:+919945798433</p>	<p>Dr. H. B. Nagaswarupa Dept. of P.G. Studies and Research in Chemistry Davanagere University, Davanagere Karnataka, INDIA. E-mail: ☎:+91-9945406900</p>

DECLARATION

If you give me an opportunity to work with your esteemed institute, I will do my level best to take the name and fame to the core with sincerely.

Date: 03/06/2024

Place: Shivamogga



Signature

(Dr. Rukaya banu)