

## SONA BIJU

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### Education

**ST. BERCHMANS COLLEGE**  
MSc Polymer Chemistry. CGPA: 4.52

Changanassery, Kerala  
Aug 2022- May 2024

**ASSUMPTION COLLEGE**  
BSc Chemistry. CCPA: 9.59

Changanassery, Kerala  
Jun 2019 - May 2022

### Research Experience

**CSIR National Institute for Interdisciplinary Science and Technology**  
**Project Associate-1**

Trivandrum, Kerala  
Sep 2024 - Present

- Conducted ongoing research focused on bio adhesives for plywood
- Employed advanced analytical techniques and experimental methodologies in the research process.
- Ongoing work under the development of biobased adhesives for plywood.
- Different methods are used to develop bio adhesive without volatile organic compound emission.
- Employed advanced analytical techniques and experimental methodologies in the research process.
- Presented research findings at conferences and seminars to share insights with the scientific community.

### Industrial Experience

**Kerala Irrigation Infrastructure Development Corporation Limited Packaged Drinking Water Plant**  
**Quality Control Chemist**

Trivandrum, Kerala  
April 2024-Sep-2024

- Developed and implemented quality control procedures for raw materials, in process products and finished goods to ensure compliance with industry standards.
- Monitored and calibrated analytical equipment to ensure accuracy and precision of testing results.
- Performed environmental monitoring to ensure compliance with regulations and minimize contamination results.

### Research Interests

- Development and characterization of advanced functional materials for energy, sustainability, and health applications.
- Nano chemistry approaches for designing and synthesizing nanomaterials with tailored properties for environmental and biomedical use.
- Interface engineering in organic and hybrid materials for solar cells, thermoelectrics, and wearable electronics.

### Activities and Achievements

- Received the “Chief Minister Student Merit Award” from Hon Chief Minister of Kerala in January 2024.
- Participated Refresher Preparative Winter School at IISER Trivandrum.
- Attended National Seminar on Contemporary Topics in Chemistry at St Berchmans College Changanassery.

- Participated in IISF at IIT Guwahati.
- Participated in Poster presentation on Frontiers in Biomaterials and Crystallography.
- Attended National Symposium on Magnetic Resonance Theory Instrumentation and Application.
- Attended Skill Development Skill Development Training Program on Remote Sensing at CSIR NIIST

### Publications

- Kamaraj, S., **Biju, S.**, Radhakrishnan, V., & Tangellamudi, S. (2025). Development of bio-adhesives based on jackfruit leaf extract: a sustainable alternative with improved strength and antifungal properties for plywood applications. *Journal of Adhesion Science and Technology*, 1-23.

### Skills & Interests

**Language:** English, Malayalam, French.

**Laboratory:** Analytical Techniques (quantitative and qualitative techniques), Instrumentation skills (COD, BOD, UV-Vis Spectrometer, Micro GC NMR Interpretation and TKN Analyzer)

**Interests:** Gardening, Listening music, Sports.

### References

1. **Dr. Sam John**  
Assistant Professor, Department of Chemistry, St. Berchmans College Changanassery.  
Email: [sam@sbcollege.ac.in](mailto:sam@sbcollege.ac.in)
2. **Er. Sravanth Tangellamudi**  
Senior Scientist, Environmental Technology Division, CSIR National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram.  
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