

Curriculum vitae



Sneha Saji

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PROFILE

- Currently working as an Assistant Professor in the School of Physical Science, Department of Chemistry, at St Aloysius (Deemed to be University), Mangaluru. Also pursuing research scholar in the Department of Chemistry, with a specialization in the synthesis, characterization, and integration of carbon dots and polymer electrolytes for energy storage applications. Passionate about research, inspired by art, and enthusiastic about exploring new ideas and places.

SKILLS

- Instrument Handling: Experienced in FTIR, XRD, TGA, BET, and electrochemical workstation.
- Material Characterization: Knowledge in structural, thermal, and electrochemical analysis.
- Teamwork & Collaboration: Effective in cooperative and interdisciplinary environments.
- Work Ethic & Attitude: Dedicated, hardworking, and driven by a positive mindset.

EDUCATION

Master degree: Chemistry 2022

St Aloysius Autonomous College, Mangaluru

Aggregate: 84.5%

Bachelor of Science: Chemistry, Physics, Mathematics	2020
St Aloysius Autonomous College, Mangaluru	
Aggregate: 85.89%	
Pre-University Course: Physics, Chemistry, Maths, Biology	2017
St Philomena College, Puttur	
Aggregate: 85.7%	
X Standard (SSLC)	2015
St Ann's School, Kadaba	
Aggregate: 96%	

PUBLICATION

- **Sneha Saji**, Ronald Aquin Nazareth, Y.N. Sudhakar, Nakul Desai, Carbon dot-infused gel polymer electrolytes: A new horizon for redox-enhanced supercapacitors, Journal of Alloys and Compounds, 1020(2025) 179514 [Q1 Journal]

PATENT

- **Ms Sneha Saji** Research Scholar, Dr Ronald Nazareth from the Department of Chemistry St Aloysius (Deemed to be University) and Dr Sudhakar YN of Department of Chemistry, Manipal Institute of Technology have successfully published a PATENT titled "A Method for Preparation of Carbon Dot-Infused Gel Polymer Electrolyte for Supercapacitor" with reference number 202441086243

CERTIFICATIONS

- Attended three weeks of Capacity Building Programme from May 26 to June 13, 2025, organized by the Human Resources Department in collaboration with the United Board for Christian Higher Education in Asia at St Aloysius (Deemed to be University)

- Participated in the two day JESCOL Level - I seminar on 4th and 5th June 2025, organised by The Mangaluru Jesuit Educational Society at St Aloysius (Deemed to be University)
- Participated in the "E-Tools for Research" workshop organized by ResearchCare on April 26, 2025
- A skill development program on "Energy Storage Technology and Sustainability" held from 2nd to 5th September 2024 organised by Department of Physics, Amrita School of Physical Science, Amrita Vishwa Vidyapeetam, Coimbatore
- National Conference on "Sustainable Chemistry and climate change hosted by Department of Chemistry Christ (Deemed to be University), Bangalore from 26th-27th March 2024
- International Conference on Environmental Sustainability – 6 April 2024, at St Aloysius (Deemed to be University) Mangaluru
- Seminar on Base Metal Catalysis for generation of H₂ fuel and speciality chemicals – 5 April 2024, at St Aloysius (Deemed to be University) Mangaluru
- Enzybridge-2k14 Bridging enzymes and industry for a sustainable future – 14 March 2024, at St Aloysius (Deemed to be University) Mangaluru
- National Conference on Physical Science. – 2 March 2024, at St Aloysius (Deemed to be University) Mangaluru
- One day National Seminar on 'Challenges and Opportunities in the global chemistry Enterprise' – 19 February 2024 at St Aloysius (Deemed to be University) Mangaluru

ADDITIONAL INFORMATION

- **Project Work**

Title: Electrochemical investigation of corrosion of commercially pure Titanium in artificial saliva

About the project: The corrosion behavior of commercially pure titanium was investigated in various mediums at room temperature, including artificial saliva (AS), AS with NaF, AS with lactic acid at pH 4.5,

and AS with lactic acid at pH 6. To assess the impact of surface modifications, the corrosion resistance of surface-coated titanium was compared with non-surface-coated titanium in these environments. Potentiodynamic polarization and electrochemical impedance spectroscopy (EIS) techniques were employed to evaluate the electrochemical behavior and corrosion resistance of the material under different conditions.

ACHIEVEMENTS

- Awarded Best Poster Presentation at the National Conference on Sustainable Chemistry And Climate Change (NCSC3- 2024), CHRIST (Deemed to be University), Central Campus, Bangalore, held on 26-27 March 2024

EXTRA-CURRICULAR ACTIVITIES

- Won first place in variety event of "Sangam 2022" an interclass competition conducted by the PG department of the college Won overall championship in "Sangam 2022"
- Participated in "Aloysius Got Talent" the largest talent show of Aloysius conducted by student council
- Actively participated in various cultural and sports competitions in the college

INTERESTS

- Enjoys dancing, traveling, sports, and discovering new experiences through curiosity and exploration