



Nikesh Chandran C

Vanmelil veedu, erathuvadakku pattazhy PO 691522 kollam

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Objective

Passionate Analytical Chemistry post graduate with experience in nanomaterials and spectroscopic techniques seeking a challenging role to apply advanced knowledge in materials science contributing to research projects with dedication and efficiency, while continuously learning and growing in a dynamic scientific environment for innovative research and development.

Experience

- Department of Chemistry University of Kerala karyavattom Campus Thiruvananthapuram** 8 march 2023 - 8 june 2023
Project Intern
Master's thesis project
Project title : A Copper nanocluster based fluorescent and colorimetric platform for the selective detection of L-DOPA.
* In this work, we have developed cysteine stabilized copper nanocluster quenched with Fe²⁺ (Fe²⁺@cy-s@CuNC) and used as both fluorescence and colorimetric probe for detection of L-DOPA.
* L-DOPA attributed a fluorescence quenching effect on developed probe.
* Mechanism confirmed using UV - Vis absorbance studies and fluorescence lifetime analysis.
* The probe also exhibited high selectivity for L-DOPA over other biomolecules and neurotransmitters.
* The capability of this probe was validated by sensing L-DOPA from human serum and a low-cost paper strip-based portable detection platform was also developed for visual detection of L-DOPA.
- St. Gregorios College Kottarakkara** 1 january 2021 - 1 march 2021
Project student
Bachelor's project
Project title : A study on the chlorophyll content in common household medicinal leaves

Publications

- Research article : Ferrous Ions Modulated Copper Nanocluster as a Fluorescent and Colorimetric Switch for the Detection of L-DOPA
2024 <https://chemistry-europe.onlinelibrary.wiley.com/doi/epdf/10.1002/slct.202400603>
ChemistrySelect/ Volume 9, Issue 14 / e202400603

Education

- Sree Narayana College Kollam** 2021-2023
M.sc Analytical Chemistry
First Class (78.89%)
- St. Gregorios College Kottarakkara** 2018-2021
B. Sc Chemistry
76.56%
- Government Higher Secondary School Pattazhy** 2016-2018
Higher secondary
96%

Skills

- Uv visible spectroscopy
- FTIR spectroscopy
- Fluorescence spectroscopy
- Material science
- Physical chemistry
- Origin software
- Communication and presentation skills
- Software skills like MS PowerPoint, MS Word
- Critical thinking
- Problem solving
- Numerical skills
- Team building
- Leadership skills
- Laboratory skills

Interests

- Nanomaterial synthesis
- Sensing in biomedical applications
- Organic chemistry
- Spectroscopic techniques
- Polymerization
- Physical chemistry
- Catalysis
- Nanochemistry

Training

- CSIR - National Institute for interdisciplinary Science and technology, Thiruvananthapuram

Title : "Hands on training on IR, UV-Vis and Fluorescence Spectroscopic Techniques".

Duration :1st november 2023 to 15 th november 2023 under CSIR - integrated skill Initiative.

Achievements & Awards

- Central sector scholarship

Activities

- Traveling to historical places which enrich our peace of mind
- Listening music
- Interested in sports

Languages

- English
- Malayalam
- Hindi

Personal Details

- Date of Birth : 21/08/2000

Reference

- **Dr. Sony George - Department of Chemistry, University of Kerala -**
Assistant professor
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- **Dr. Rijith S - Research Department of Chemistry SN College Kollam -**
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