VIDYA BABU

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PERSONAL

First Name : Vidya Last Name : Babu

Age & Date of Birth : 26 yrs.; 20 January, 1998.

Sex & Marital Status : Female, Unmarried

Nationality : Indian

RESEARCH EXPERIENCES

Research Fellow: School of Chemical Sciences (SCS), Mahatma Gandhi University
Campus, Priyadarshini Hills, Kottayam, Kerala, India (1st December 2022 – 20
December 2023).

Area: Bio-polymer and Synthetic Polymer Based Nanocomposites for Flexible Electronic Applications

 M.Phil. Research Fellow: Department of Physics, Kariavattom campus, University of Kerala, Kerala, India (January 2021- July 22).

Dissertation: Tunable Negative Permittivity and Absorption-Dominated Electromagnetic Interference Shielding in Cold Sintered Mayenite Electride – Ethylenediaminetetraacetic acid Composites.

 Project Intern: Department of Physics, Sree Narayana College Kollam, Kerala, India (January 2020-March 2020).

Dissertation: Dextrose Mediated Synthesis of Nickel Oxide Nanoparticles.

 Project Intern: Department of Physics, Sree Narayana college Punalur, Kerala, India (January 2018-March 2018).

Dissertation: Voltage Regulators

EDUCATION

- Master of Philosophy (M.Phil.), Physics, Kariavattom campus, University of Kerala, India, 2021-22.
- Master of Science (M.Sc.), Physics, University of Kerala, India, December 2020 (Sree Narayana College Punalur, Kerala, India).
- **Bachelor of Science (B.Sc.),** Physics, University of Kerala, India, April 2018 (Sree Narayana College Punalur, Kerala, India).
- **Senior Secondary, Science**, Board of Higher Education Department, India, March 2015(G.H.S.S Yeroor, Kerala, India).
- **X Secondary**, General Education Department, G.H.S.S Yeroor, Kerala, India, March 2013).

HONORS AND AWARDS

- Master of Philosophy (M. Phil) in Physics (88.87 %) with A plus grade at University of Kerala, Kariavattom campus, Thiruvananthapuram, Kerala, India.
- Second Position in Master of Science (M. Sc) in physics (82.77 % -A Grade) at Sree Narayana College Punalur, Kollam, Kerala, India.
- Second position in Bachelor of Science (B. Sc) in Physics (86.9 %-A Grade) at Sree Narayana College Punalur, Kollam, Kerala, India.

RESEARCH SKILLS

Analytical skills

- Design of Natural Rubber (both Dry Rubber & Latex), Silicon Rubber, PANI and PLA based Nanocomposites and Its Characterizations.
- Synthesis and characterization of nanomaterials (rGO, TiO₂, MXene, Fe₃O₄, Layered Double Hydroxide etc.) Ceramic Compounds and Polymer Nanocomposites.
- Experience in working with and maintaining various types of equipment's, Vacuum Oven, Tubular Furnace, Probe Sonicator, UV-Visible spectrophotometer, X-Ray diffractometer (XRD), FTIR Spectrometer, Raman Spectrometer, Impedance Analyzer, Vector Network Analyzer (VNA), Contact Angle Goniometer, Joule Heating Instrument, Hot Pressing unit, Compression Molding, Two-Roll Mill, Hakke Mixer, Brabender Mixer and Electro Spinning Unit.

Computer skills

• MSWord, Power Point and other MS Office Programs.

Software packages

Origin, Avantage, Casa, Ivium soft, Toppas (Le bail & Reitveld Refinement), ImageJ,
 End note, Mendeley, Find it, Blender and Crystal Maker.

Languages: English and Malayalam

CONFERENCES AND ORAL PRESENTATIONS

- Participation in the one Day Seminar on "IPR Awareness" organized by the Inter
 University Centre for IPR Studies (IUCIPRS), CUSAT under RUSA 2.0 Major
 Project T5F held on 15 th November 2023 at Convergence Academia Complex,
 School of Nanoscience & Nanotechnology, Mahatma Gandhi University, Kottayam.
- Oral Presentation in International Hybrid Conference on Advances in Materials
 Science Breaking Barriers and Building Future (ICAMS 2023), organized by SEM,
 SNSNT, IIUCNN, SPST, Mahatma Gandhi University, Priyadarsini Hills P.O,
 Kottayam, Kerala (July 21,2023).
- Presentation in International Hybrid Conference on Nano Structured Materials and Polymers (ICNP 2023) organized by IIUCNN, SNSNT&SEM, Mahatma Gandhi University, Kottayam, Kerala (May 12-14,2023).
- Participation in Raman Optronics Webinar Series (ROWS-2022) Virtual International Conference, Organized by RAMAN INTERNATIONAL OPTRONICS SOCIETY(RIOS-17.11.2022-07.12.2022).
- Oral presentation in International Conference on Materials-Properties,
 Measurements and Applications, (ICMPMA-2022) organized by the Research and
 Postgraduate Department of Physics, Fatima Mata National College
 (Autonomous)Kerala, India during 9-13 May 2022.
- Oral presentation in a Three-day National Seminar on Advanced Functionalized Materials for Analytical, Environmental and Biomedical Applications (NSAFM-2022) held on 23-25 March 2022, Thiruvananthapuram, Kerala, India.
- Oral presentation in the National Webinar on Neoteric Advances in Chemical

Sciences (NACS-2021) organized by the Department of Chemistry, University of Kerala, Thiruvananthapuram, India during **December 30-31,2021.**

- Participation in Virtual International Conference on Raman Optronics
 Webinar Series (ROWS 2021) organized by Department of Optoelectronics,
 University of Kerala, Kerala, India (07.11.2021 to 07.12.2021).
- Participation in webinar (COGNIZANCE 2020) on INTRODUCTION TO ELECTRONIC MATERIALS organized by Department of Physics & IQAC, Sree Narayana College, Punalur, Kerala, India.
- Participation in Webinar on "Astronomy and Astrophysics" organized by the Department of Physics, Mar Ivanios College (Autonomous), Thiruvananthapuram, India on 25.07.2020.

DECLARATION

I hereby declare that all the statements made in this application are true and correct to the best of my knowledge and belief.

Place: Eroor, Kollam, Kerala, India VIDYA BABU