CURRICULUM VITAE

Personal data

BASIL BABY
ASSISTANT PROFESSOR
SCIENCE &HUMANITIES (CHEMISTRY)
AHALIA SCHOOL OF ENGINEERING &
TECHNOLOGY
PALAKKAD



Education

Doctorate Degree

BHARATHIAR UNIVERSITY COIMBATORE — DOING

PG degree

NEWMAN COLLEGE THODUPUZHA — 2011

UG degree

M A COLLEGE KOTHAMANGALAM — 2009

Research focuses/Title of dissertation

Area – Organometallic synthesis and Characterization, Nano material synthesis and characterization

Sub Area – Chemistry

Title - **STUDIES ON THE SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITIES OF NANOPARTICLES OF SOME TRANSITION METAL AND THEIR CONJUGATES WITH POLY (N-ISOPROPYLACRYLAMIDE)**

Expected date of completion – 2025 May

Teaching

Since Jan 2012:	Assistant Professor of Science and Humanities (Chemistry) Ahalia School of Engineering &Technology, Palakkad
2011-2012	Worked as research associate in synthite, Industries
2011	worked as lecturer for post graduate students in Indira Gandhi college nellikuzhi.

- **Eleven papers published in international journal including Scopus and SCI indexed journals.** https://drive.google.com/drive/folders/1242TwgsdcjLNu7y-kivRlhkIv-b3jTsU?usp=sharing
- **Elsevier Journal Reviewer**
- **Book published - Engineering chemistry**
- **NABL Internal auditor**

FDP and Online certificates. https://drive.google.com/drive/folders/10v-XsrSkir9AoE-YeHA5iuYyBhWEwUWu?usp=drive_link

Recent Journal Publications

1. HMT Surfactant Assisted Synthesis of ZnO Nanoparticles for Effect on Photocatalytic and Antibacterial Activities: An Impact Evidence of Strong Morphology - Journal of Inorganic and Organometallic Polymers and Materials, DOI: 10.1007/s10904-024-0340

2. Development of Poly (N-Isopropylacrylamide)-Nanometal Composites: An Organometallic Approach for Treatment of Infections Against ESKAPE Pathogens - IJRAR, February 2020, Volume 7, Issue 1

3. Silver Nanoparticle - Poly (N-Isopropylacrylamide) Conjugate Preparation: Biological and Chemical Characterization Studies of the Conjugates - Journal of University of Shanghai for Science and Technology

4. A Study of Wound Healing and Antibacterial Zinc Oxide Nanoparticle - Poly (N-Isopropyl Acrylamide) - European Chemical Bulletin, 2023, 12(3), 649-662

5. Unique Polymer Poly(N-Isopropylacrylamide) and Rare Earth Metal Ions with Zinc Oxide and Silver Nanoparticles - Synergic Effects - European Chemical Bulletin

6. Antibacterial Effects and Photocatalytic Activity of PVA-Coated Ag-PNIPAM and Zn-PNIPAM Nanocomposites: An Enhanced Study - Volume 6, Issue 5, April 2024

7. Green Synthesized Zinc Oxide Nanoparticles with Strobilanthes Alternata and Mimosa Diplotricha Plant Extract - Benefits - IJFANS International Journal of Food and Nutritional Sciences, 2022

8. Metal Complexes of Schiff Bases Derived from Quinoxaline-2-Carboxalde – A Promising Candidate in Catalysis, Medicine and Material Science - IJFANS International Journal of Food and Nutritional Sciences, 2021

9. Structural, Catalytic Oxidation and Antimicrobial Studies of a New Series of Transition Metal Schiff Base Complexes Derived from Quinoxaline-2-Carboxaldehyde - IJFANS International Journal of Food and Nutritional Sciences, 2021

10. The Structural and Catalytic Activity Studies of Some Iron (III) Complexes of the Schiff Bases Derived from 3-Hydroxy-Quinoxaline-2-Carboxaldehyde with Various Amines - IJFANS International Journal of Food and Nutritional Sciences, 2022

11. Use of Boron in Chromatography and Drug Delivery: A Review - IJFANS International Journal of Food and Nutritional Sciences, 2023