# Nayana V T

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# Mobile: (+91)6238131956, (+91)7510611499

# CAREER OBJECTIVE:

I am a self-motivated Chemistry Post Graduate from Kannur University, Kerala, India seeking an opportunity to further develop and refine my scientific research and work skills to achieve newer heights in the subject.

# **AREAS OF INTEREST**

- Energy materials
- Functional nanomaterials
- Nanotechnology and nanomaterials
- Glass and ceramic materials

#### EXPERIENCE:

Mary Matha Arts and Science College Mananthavady

July 15, 2021 - Present

Assistant Professor

- Taught Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Theoretical and Analytical chemistry, B. Sc. Chemistry
- Taught Inorganic qualitative analysis practical, B. Sc. Chemistry

# ACADEMIC PROJECTS:

# M. Sc. Project: Synthesis and structural investigations on Molybdenum and Cesium loaded Iron Phosphate Glasses

Designation: Bhabha Atomic Research Centre (BARC), Mumbai, India

Iron phosphate glasses resist attack by water, can dissolve large concentrations of species that are otherwise insoluble in borosilicate glass melts and can be processed relatively at lower temperatures(1000-1200 degree centigrade), and so are viable hosts for vitrifying hazardous and radioactive wastes. The structural information helps to explain compositional trends in properties including dissolution rates, electrical conductivity, thermal properties and crystallization tendency. Hence evaluated the effect on structural properties of iron phosphate glass with loading of Mo and Cs.

# B. Sc. project: Analysis of soil and determination of soil pH

Designation: District Soil Testing Lab, Wayanad, Kerala

The micro and macro plant nutrients in the soil were analysed using Atomic Absorption Spectrometry, Flame spectrometry and using extraction methods. On evaluation the soil was found to be deficient in nitrogen which can be rectified by adding sufficient amount of urea and the soil samples have an excess of phosphorous which is overcome by adding rock phosphate. Therefore by adding the required chemical fertilizers the excess and deficiency in micro and macro plant nutrients in the soil is rectified by this project.

#### EDUCATIONAL QUALIFICTIONS:

•	Master of Science in Chemistry	July 2018- March 2020
	Government College Kasaragod	Overall Percentage: 77.11%
	Kannur University, Kerala, India	
•	Bachelor of Science in Chemistry,	July 2015- March 2018
	Mary Matha Arts and Science College Mananthavady	Overall Percentage: 86.9%
	Kannur University, Kerala, India	
•	All India Senior Secondary School Examination	June 2013- March 2015
	Hill Blooms School Mananthavady	Overall Percentage: 79.8%
•	Indian Certificate of Secondary Education Examination	June 2003- March 2013
	St. Patrick's School Mananthavady	Overall Percentage: 78.5%

# ACHIEVEMENTS AND AWARDS:

- Best Outgoing Student 2018
- C Certificate holder of National Cadet Corps, 1(Kerala) Artillery Battery NCC

#### **CONFERENCES:**

# **Thermal Techniques for Advanced Materials**

[DAE-BRNS 22<sup>nd</sup> Workshop & Symposium on Thermal Analysis, Thermans 2020] International Conference conducted by DAE-BRNS, Bhabha Atomic Research Centre, Mumbai

#### SKILLS:

**Instruments Handled:** Vertex 70 Fourier Transform Infrared spectrometer, WI Tec alpha 300 R Raman spectrometer, Netzsch STA 09 PC TG-DTA instrument, Mettler Toledo electronic balance, Atomic Absorption Spectrophotometer, pH meter.

**Instruments Familiar:** Rigaku Smartlab X-Ray diffractometer, Wissel instrument Mossbauer spectrometer, Philips XL 300 E SEM, HRTEM.

# **PERSONAL DETAILS:**

Father's Name: Thankachan V S

Date of Birth: 07/02/1997

Gender: Female

Language Known: English, Malayalam, Hindi

Address: Vallattuthottiyil House

Vemom Post, Ondayangady

Mananthavady

Wayanad -670645

Kerala, India

#### **DECLARATION:**

I hereby declare that the above furnished information is authentic to the best of my knowledge.

Place: Mananthavady

Date: 01-10-2021

# **REFERENCES:**

 Dr. Dimple P Dutta Scientific Officer(G), Nuclear and Energy Materials Section Chemistry Division Bhabha Atomic Research Centre Mumbai, Maharashtra, India E-mail: <u>dimpled@barc.gov.in</u> Phone: +91-22-25592308

2. Dr. Pushpaletha P. Assistant Professor and Head, Department of Chemistry, Government College Kasaragod. Kasaragod, Kerala, India E-mail: ppletha@rediffmail.com Phone: (+91)9895466202

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