

CV

Name: ANUSHA A
Degree: MSc [General Chemistry]

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CAREER OBJECTIVES

To secure a good position in an organization and share my knowledge for the growth and development of the human group and to develop my own scientific skills



EDUCATIONAL QUALIFICATION

| Qualification | Stream | Institute/University | Year of Passing | Percentage |
|--------------------------------|-------------------|--|-----------------|------------|
| Master of Science | GENERAL CHEMISTRY | Manasagangotri, University of Mysore, Mysuru, India. | 2019 | 83.75 |
| Bachelor of Science. Education | PCM | Regional Institute of Education Mysuru, Karnataka, India | 2017 | 85.25 |
| Pre-University Board | PCMB | Sree Vijaya PU college, Chintamani, Karnataka, India | 2013 | 91.67 |
| 10 th State Board | ----- | Pragathi Composite High school, Chintamani, Karnataka, India | 2011 | 90.24 |

EXPERIENCE:

- Worked as a *Junior Research Fellow* on the project entitled **“DESIGN AND DEVELOPMENT OF AFFINITY BASED SENSORS FOR THE DETECTION OF RADIOLOGICAL COMPOUNDS IN POINT OF CBRN EMERGENCIES USING ZNO NPS FUNCTIONALIZED BY AMIDOXIME AND MUGENIC ACID”** in the period of September 2020 and June 2021 under the supervision of Professor Raj Mohan B, Department of Chemical Engineering, **National Institute of Technology Karnataka, Surathkal**, India. Sponsored by INMAS – DRDO R&D project, Ministry of Defence, DRDO Bhavan, New Delhi.
- NCR Edu Services Pvt. Ltd.** – *Subject Matter Expert*
6th to 28th August 2020.
 - Reasoning questions related to chemistry.
 - Solving problems and providing methods to solve.
- Worked as a *Summer Research Fellow* on a project entitled **“SYNTHESIS AND CHARACTERISATION OF CARBON NANO FIBERS BY ELECTROSPINNING”**

TECHNIQUE FOR RECHARGEABLE BATTERY APPLICATIONS", during June-August 2018 under the supervision of Professor Aninda J Bhattacharyya, **Indian Institute of Science, Bengaluru**, India. Sponsored by IAS (Bengaluru), INSA (New Delhi), and NASI (Allahabad).

AWARDS:

I have been awarded as **ACADEMIC EXCELLENCE** in the academic year 2016-17 by Regional Institute of Education, Mysuru, NCERT, New Delhi.

HONORS:

- Cleared **KSET- 2018** examination. Eligible for assistant professor.
- Participated and presented the research paper as an poster presentation titled as "**FABRICATION OF CARBON NANO FIBERS AND TUBES FOR ADVANCED APPLICATIONS**", in the **INTERNATIONAL CONFERENCE ON ADVANCED FUNCTIONAL MATERIALS FOR ENERGY, ENVIRONMENT AND HEALTH CARE (AFMEEHC)** held at University of Mysore, Mysuru, India, during March 18-20, 2019, organized by Center For Material Science And Technology, Vijnan Bhavana University of Mysore, Mysuru, India, UPE (sponsored).
- Participated and presented the research paper as a poster presentation titled as "**FABRICATION OF CARBON NANO FIBERS AND TUBES FOR ADVANCED APPLICATIONS**", in the "**RECENT INNOVATIONS IN MEDICINAL AND MATERIAL CHEMISTRY (RIMMC)** held at University of Mysore, Mysuru, India, during March 8-9, 2019, organized by Department Of Studies in Chemistry, University of Mysore, Mysuru, India.
- Participated and won first prize in a quiz competition in a PG Special Workshop on "**BASICS AND APPLICATIONS OF NANO SCIENCE AND TECHNOLOGY**", held at Centre for Nano and Soft Matter Sciences, DST, Govt. of India, Bengaluru, India, organized by KSTA, Dept. Science and Technology, Govt. Of Karnataka, India.

WORKSHOPS AND SEMINARS

- Participated in the national webinar on "**Smart materials and coating**" by Dr.T.P.D Rajan, Principal Scientist, MSTD, CSIR-NIIST, Thiruvananthapuram on May 21st 2020.
- Participated in the **INTERNATIONAL CONFERENCE ON NANOMATERIALS AND THEIR APPLICATIONS** held at University of Mysore, Mysuru, India, during March 1-2, 2018, organized by UGC-CPEPA, UPE and DST-PURSE programmes.
- Participated in a seminar- safety issues in the laboratory, held at Indian Institute Of Science, Bengaluru.
- Attended workshop on Media Production: Communication and Presentation Skills organized by RIE-NCERT, Mysuru.

- Attended a workshop on “Electron States in Atoms, Molecules and Solids” conducted by Prof M.S Hegde Senior Scientist IISc Bengaluru, India, held on January 30-2019, organized by Chemical society, Department Of Studies in Chemistry, University of Mysore, Mysuru, India.

Attended seminars in university of mysore organized by chemical society DOS in chemistry

- “Highly efficient sensitizers for solar energy conversion in DSSCs” by Dr.Chandrashekharan.
- Polymers an indispensable material by Dr. Mukhopadhyay (Director of J K tyres), Mysuru, during September -20-2017
- Job opportunities, career development plan and career growth, by Dr. H. Mallesh (Director Robust material technology, Bengaluru), during November-4-2017
- Chemistry of nano particals and its applications in food packaging by Dr. Arun Kumar Panneerselvam, during November-17 -2017.
- Opportunities of polymers by S Y Shirali (Director and head), central institute of plastic engineering and technology (CIPET), Mysuru, during December-30-2017.
- Science, scientist and society by M.S Hegde IISc, Bengaluru, during March 2018. Noble metal ionic catalysts by M.S Hegde IISc, Bengaluru, during march-8-2018.
- Workshop by M.S Hegde at department of studies in chemistry, University of Mysore, Mysuru, Karnataka, India.
- Nano particles and their applications in biological field, super conductors and their applications, held at Manasagangotri, Mysuru.
- Participated in NURTURE MATHEMATICS NATIONAL WORKSHOP, organized by Central University of Tamil Nadu at Tiruvarur in Tamil Nadu, during 4th -24th December, 2016. Selected for MTTs MATHEMATICS PROGRAMME-2016-17.
- Completed Teacher Training Internship programme at JNV Bagalur, Bengaluru for secondary class, during July-August 2016.
- Secured NATIONAL-5th RANK in INTERNATIONAL SCIENCE TALENT EXAMINATION 2010-2011. Secured DISTRICT RANK in INTERNATIONAL CHINTHANA MATHS EXAMINATION 2009-2010.

Technical Skills

| Techniques | Specific Skills |
|------------------|---|
| Chromatography | <ol style="list-style-type: none"> 1. Paper Chromatography 2. Thin Layer Chromatography 3. Ion Exchange Chromatography |
| Characterization | <ol style="list-style-type: none"> 1. X-Ray Diffraction 2. Scanning Electron Microscopy 3. FTIR |

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|-------------------|--|
| | 4. EDAX/EDS 5. Cyclic Voltammetry |
| Nano-Synthesis | 1. Electrospinning technique 2. Laser ablation |
| Spectrophotometry | 1. Fluorescence Spectrophotometry 2. UV Spectrophotometry 3. Colorimetry |

Research work:

Worked on Synthesis and Characterization of carbon nano fibers by electrospinning technique for rechargeable battery applications. And published the paper entitled as above in IAS official portal under SRF programme. This paper contains *Synthesis of solid or hallow fibers from PAN polymer. *Synthesis of Sn-Sb-carbon nano fibers of 1:1 and 75:25 (SnCl₂ and SbCl₃) ratios. *Characterization of all the three types of fibers by Powder X-ray diffraction, thermogravimetric analysis, fourier- transform infrared spectroscopy. *electrode casting by 2 types of synthesized fibers and cell (AGM separator in the Swagelok cell) with KOH as electrolyte is made to run for cyclic voltammetry using different concentrations of KOH electrolyte.*Electrochemical properties of samples is carried out using cyclic voltammetry.*SnSb (50:50) has higher amount of amorphous carbon compared to SnSb (75:25) compound.*The surface charge storage properties of carbon fibers shows that 8M KOH provides best performance.*System with 6M KOH is interesting and need further investigations.

Synthesis and characterization of ZnONps for its sensor application. ZnONps were characterized using several techniques (XRD, TGA, FTIR, Fluorescence Spectroscopy, UV-Visible spectroscopy, SEM/EDAX, ICP-OES). Functionalization of ZnONps with Amidoxime (ZnO-A.O) (separate experimental setup was made for this reaction process) and its characterization studies were done. Detection of Co(II) and Sr(II) ions using ZnONps and ZnO-A.O.

PERSONAL DETAILS:

- Full name : ANUSHA A
- Father's name : Anjaneya Reddy N C
- Mother's name : Sujatha A N
- Gender : Female.
- Nationality : Indian.
- Date Of Birth : 24th June 1995
- Blood Group : O⁺
- Marital status : Unmarried.
- Permanent Address : Booragamakalahalli village, Oolawadi post, Chintamani (T), Chikkaballapur (D), Karnataka-563125, India.
- Languages Known : English, Kannada, and Telugu.