

CURRICULUM VITAE

M. SHUBHA

Associate Professor
Department of
Government First Grade College
Vijayanagara, Bengaluru- 560104
E-mail ID: shubshashikanth@gmail.com



EDUCATIONAL QUALIFICATION:

| Degree | Subject & Specialization | University & Year |
|---------|------------------------------------|-------------------------------|
| B. Sc. | Physics, Chemistry, Mathematics | Mangalore University, 1986 |
| M. Sc. | Inorganic Chemistry | Mangalore University, 1988 |
| M. Phi. | Chemistry | Mangalore University, 1991 |

AREAS OF INTEREST:

- **Research:** Development of characterization technique for carbon and graphite using X-ray diffraction studies and thermal analysis technique.
- Study on puffing behaviour of coke at high temperature and its suppression using metal oxides.
- Catalytic activity of iron, chromium, nickel, cobalt on graphitization process.
- Graphitization study of Anthracite.
- Development of Graphite foil project, completed and production started.
- Development of Glassy Carbon project, completed and production started.

- Development of Carbon Paste project, completed and production started.
- Development of Colloidal Graphite.
- Development of Anti-oxidation coating for graphite.
- Development of Activated Carbon.
- Bio-inorganic chemistry
- DNA variations in disease conditions

Education: Innovative teaching methods, Green chemistry, Chemical analysis

TEACHING EXPERIENCE: 24 YEARS

| Position Held | Name of the Institute | Name of the University | Period (from -to) |
|--|---|------------------------|-------------------------|
| Lecturer in Chemistry | Sri Mahadeshwara Govt. College, Kollegal | Mysore University | July 1996 - August 1997 |
| Lecturer in Chemistry | Govt. College for Women, Mandya | Mysore University | August 1997 - July 2000 |
| Lecturer in Chemistry | Govt. Science College, N. T. Road, Bangalore | Bangalore University | July 2000- June 2001 |
| Senior Scale Lecturer in Chemistry | Govt. Science College, N. T. Road, Bangalore | Bangalore University | July 2001 - July 2006 |
| Associate Professor in Chemistry | Govt. Science College, N. T. Road, Bangalore | Bangalore University | July 2006 - August 2013 |
| Associate Professor & HOD in Chemistry | Govt. First Grade College, Vijayanagar, Bangalore | Bangalore University | August 2013 to date |

RESEARCH EXPERIENCE: 8 YEARS

RESEARCH PAPERS PUBLISHED

| Sl.No. | Title of the Paper | Title of the Journal | Int./National/ Peer reviewed | Volume/ Issue/ year |
|--------|--|---|------------------------------------|---------------------------|
| 1. | Non bonded intermolecular interactions in the crystal structure of poly (phenyleneterephthalamide), | <i>Journal of Polymer Science</i> | | 13 (1992) 112. |
| 2. | KEVLAR 49 fibres correlation between tensile strength and X ray diffraction peak position., | <i>The Journal of Material Science</i> | | (1993) 75. |
| 3. | Investigations on the problem of moisture absorption by KEVLAR fibres, | <i>II Proceedings of the Symposium "Polymer 91" – Pune, India</i> | | 1991, p 666 |
| 4. | X ray analysis of hot stretched NALAR fibres | NAL TM-MT-8903 | | |
| 5. | Moisture absorption by PPTA | NAL TM-MT-8908 | | |
| 6. | X ray analysis of heat treated KEVLAR fibres | NAL TM-MT-8910 | | |
| 7. | Non bonded intermolecular interactions in the crystal structure of poly (p-phenyleneterephthalamide), | NAL TM-MT-9009 | | |
| 8. | KEVLAR 49 fibres – correlation between tensile strength and X-ray diffraction peak positions., | NAL TM-MT-9011 | | |
| 9. | Tensile properties of KEVLAR fibres exposed to thermal environments. | NAL TM-MT-9101 | | |
| 10. | Investigations on the problem of moisture absorption by KEVLAR fibres – effect of relative humidity on the atmosphere and degree of crystallinity of fibres. | NAL TM-MT-9015 | | |

PAPERS PRESENTED

| Sl. No. | Title of the paper | Name of the Conference | Organising Institute | Level | Date |
|---------|--|----------------------------|----------------------|-------|-------------------|
| 1. | Investigations on the problem of moisture absorption by KEVLAR fibres, | "Polymer 91" – Pune, India | | | January 1-4, 1991 |

GENERAL ARTICLES PUBLISHED

| Sl. No. | Title of the Article | Published in | Level | Volume/ Issue | Date/ Year |
|---------|----------------------|--------------|-------|---------------|------------|
| 1. | - | - | - | - | - |

BOOKS PUBLISHED/EDITED

| Sl. No. | Title of the Book | Publisher | ISSN/ ISBN No. | Year |
|---------|-------------------|-----------|----------------|------|
| 1. | - | - | - | - |

RESEARCH GUIDANCE

| Sl. No. | Course | No. of Enrolled | Awarded | University & Year |
|---------|--------|-----------------|---------|-------------------|
| 1. | | | | |

RESEARCH PROJECTS

| Sl. No. | Title of the Research Project | Position in the project | Name of the Funding agency | Year | Completed/On going |
|---------|-------------------------------|-------------------------|----------------------------|------|--------------------|
| | | | | | |

STUDENTS PROJECTS GUIDED

| Sl. No. | Title of the Student Project | Position in the project | Name of the Funding agency | Year | Completed/ Ongoing |
|---------|------------------------------|--------------------------------|--|------|--------------------|
| 1 | | Principal Investigator / Guide | Govt. Science College, N. T. Road, Bangalore | 2013 | Completed |

HONOURS AND AWARDS:

| Sl. No. | Name of the Award/recognition | Name of the Awardee | For the work | Level | Date/ Year |
|---------|-------------------------------|---------------------|--------------|-------|------------|
| 1. | - | - | - | - | - |

RESOURCE PERSON:

| Sl. No. | Title of the talk | Title of the event | Organised by | Level | Date |
|---------|-------------------|--------------------|--------------|-------|------|
| 1. | | | | | |

SEMINARS/WORKSHOP/CONFERENCES ORGANIZED AS ORGANIZING SECRETARY / CONVENER/ COORDINATOR:

| Sl.No. | Title | Level | Sponsorship /Organised by | Date |
|--------|-------|-------|---------------------------|------|
| | | | | |

E-CONTENT DEVELOPED:

| SL No. | Title/Module of the e-content | Name of the YouTube/ channel | Date of launching and link |
|--------|-------------------------------|------------------------------|----------------------------|
| 1. | Thermodynamics - 1 | | |
| 2. | Thermodynamics - 2 | | |
| 3. | Ionic Equilibrium | | |

MEMBER OF BOARD OF STUDIES/ BOARD OF EXAMINERS:

| Sl.No. | Position held [Member/Chairman of BoS/BoE] | Name of the University/ Autonomous College | Period [from-to] |
|--------|--|--|------------------|
| 1. | Member - BoE | Government Science College, N. T. Road, Bangalore | 2014- to date |
| 2. | Member - BoS | Bangalore University | 2020 - |
| 2. | Chairman - BoE | Bangalore University | 2020 - |

MEMBERSHIP OF PROFESSIONAL BODIES:

| Sl.No. | Name of the Society | Year of Membership | Membership details |
|--------|---------------------|-----------------------|-----------------------|
| 1. | - | - | - |

CONSULTANCY:1) Consultant at LifeGene Bioscience, Bangalore

EXTENSION ACTIVITY:1) Application and awareness of Chemistry in Green Practices in everyday life.

2) Soap, detergent and candle manufacturing through Green Process

ANY OTHER ACHEIVEMENTS/ INFORMATION:

Connect me through: (Optional) -

I affirm that the information given above is true and correct to the best of my knowledge.

Date :04.12.2020

Place : Bangalore

[M. SHUBHA]