

VUGGILI SAI BHARGAVA
M.Sc. Nanotechnology (Integrated)
Department of Nanotechnology
Acharya Nagarjuna University
Guntur - 522510

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EDUCATIONAL QUALIFICATIONS:

- **2008-2013** **M.Sc NANOTECHNOLOGY (INTEGRATED)**
ANU COLLEGE OF SCIENCES, GUNTUR, AP

Course of Study: Nano materials, Nano photonics, Nano Composites, characterization of nano materials, ceramics, polymers, magnetic nanoparticles, lasers, nonporous, inorganic & organic chemistry, physical & general chemistry, spectroscopy, solid state physics, physics and chemistry of nanomaterials, quantum mechanics, classical mechanics.
Got 70%.

- **Ready to work in respective fields**

- **2006-2008** **INTERMEDIATE**
VIKAS JUNIOR COLLEGE, CHARTRAI, NUZVID, AP.

Completed Intermediate with Mathematics, Physics & Chemistry (MPC).
Passed with 80%.

- **2006** **SECONDARY SCHOOL CERTIFICATE**
SREE SATHYA SAI HIGH SCHOOL, KAZIPET, AP.
WARANGAL, ANDHRA PRADESH.

Completed Secondary School Certificate (SSC) with good conduct. Passed with 69%.

RESEARCH EXPERIENCE:

- **Dissertation:** In JNTU HYD on “**Synthesis & characterization on lithium cobalt phosphate nanoparticles using corn starch-assisted combustion method**” during Dec 2012 to June 2013.

In Brief: High voltage and capacity cathode active materials are required for the energy density of rechargeable lithium ion battery of hybrid vehicles. Present work deals with Starch assisted-Combustion method by using Corn Starch for preparing LiCoPO₄ nano particles. Highly crystallized particles of LiCoPO₄ without impurity phase were obtained successfully with a particle size of 24 nm.

X-ray diffraction, Particle Size Analyzer, Scanning Electron Microscopy with Energy Dispersive X-ray spectroscopy, Thermal Gravimetric - Differential Thermal Analysis, Transmission Electron Microscope was characterized the LiCoPO_4 nanoparticles.

- Produced nano powders of CuO and Fe_3O_4 with a particle size and diameter of 100nm using physical methods like ball-milling, sonication and chemical methods like sol-gel process in our department.

AREAS OF INTEREST:

- Batteries, magnetic nanoparticles, metallurgy, sensors, fuel cells
- Synthesis and characterization of nanomaterials
- Application and properties of nanomaterials

SEMINARS ATTENDED:

- Attended National Seminar on “Nano Technology”, SRR & CVR GOVT. College, Vijayawada (11th DEC, 2009)
- Participated International conference on “ Nanoscience, Nanotechnology & Advanced Materials”, Gitam University, Visakhapatnam (17-19 DEC, 2010)
- Attended Science Academies lecture Workshop on “Current Trends in Nanoscience and Technology”- NIT Warangal. (23-24 DEC, 2011)
- Attended UGC sponsored Two-Day National Workshop on “Fundamentals & Applications of Nano Materials”, Acharya Nagarjuna University, Guntur (30-31 March, 2012)

PROFILE DETAILS:

- Participated in 15day software industry oriented training camp-2012 conducted by *SWECHA* part of free software movement of India from 25th May to 8th June 2012
- Participated in a two day workshop on *contraptions* in Vijayawada on 13-14 March 2010 - Organized by V R1 forever Charitable Trust
- Voluntarily participated in BLOOD BANK with Sri Sathya Sai Higher Medical Sciences, Prashanthigram, Ananthapur (Dist)
- Participated 2 times in Inter University level Football competitions in Sathenapally (2010-2011 ,2011-2012)
- Participated 2 times in Inter University level in Volleyball competitions in Vetapalem and Pedhanandhipadu
- Got first place in Volley ball in University level competitions

COMPUTER SKILLS:

- PGDCA with 85% in 2006
- Practical experience with Microsoft Word, Microsoft Access, Microsoft Excel, PowerPoint, internet, and email.

ADDRESS FOR COMMUNICATION:

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BHUPALPALLY-506169
DIST: WARANGAL. (AP)

REFERENCES:

References will be given on request.

DECLARATION:

I hereby declare that the information furnished above is true to the best of my Knowledge.

V.SAI BHARGAVA