

RESUME



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OBJECTIVE

Seeking an opportunity in a supportive educational structure with a combination of teaching and independent research, that helps me to achieve personal as well as organisational goals.

EDUCATION

- Doctor of Philosophy in Physics, Acharya Nagarjuna University, June-2021
- Master of Science in Physics, Acharya Nagarjuna University, 2011-2013
- Bachelor of Science in Maths, Physics and Computer Science, Sri Durga Malleswara Siddhartha Mahila Kalasala, Acharya Nagarjuna University, 2008-2011

ADDITIONAL QUALIFICATION

- Qualified in APSET-2021

TEACHING EXPERIENCE

- **Assistant Professor** – Department of Science & Humanities, Nimra Institute of Science & Technology, Ibrahimpatnam. **June 2014 - May 2016.**
- **Assistant Professor** – Department of Physics, P. B. Siddhartha College of Arts & Science, Vijayawada. **October 2021 - Till date.**

RESEARCH EXPERIENCE

- **Five years of Full-Time research experience** as Research scholar in Department of Physics, Acharya Nagarjuna University, Guntur, Andhra Pradesh.
- **Nanocomposite synthesis:** Synthesized CdO-FePO₄ nanocomposites using sol-gel approach for its possible use in various potential applications such as cathode material in rechargeable batteries, photo-catalysis.
- Expertise in synthesizing CdSe-ZnSe Polymer systems.
- Experience in synthesizing some borate glass systems using Melt-quenching technique.
- **Structural and Optical Characterizations:** Expertise on structural characterization using X-ray diffraction (XRD). Also have experience on metallographic examinations like Scanning electron

microscopy (SEM) and Energy dispersive x-ray spectroscopy (EDAX), Transmission electron microscopy (TEM). Expertise on optical property studies using Diffused reflectance spectroscopy (DRS), Fourier transform infrared (FT-IR) spectroscopy and Raman spectroscopy.

PROJECTS

- Minor research project on “*Spectroscopic and electrochemical/ photocatalytic studies of nanostructured composites*” under Siddhartha Academy of General and Technical Education in the academic year 2022-2023 (**ongoing**).

PUBLICATIONS

- Influence of ZnO doping on spectral properties of sol-gel derived CdO-FePO₄ nanocomposites
SK. Khaja Muswareen, Sandhya Cole
“**Journal of Electronic Materials (Springer)**” 50(4) (2021) 1686-1698.
- Sol-gel synthesis of pure and TiO₂ doped CdOFePO₄ nanocomposites and investigation of their structural and optical properties
SK. Khaja Muswareen, M. Subba Rao, G. Sridevi, Sandhya Cole
“**Materials Science in Semiconductor Processing**” 102 (2019) 104588(1-7).
- Spectroscopic studies of sol-gel synthesized CdOFePO₄ composite nanopowders
SK. Khaja Muswareen, Sandhya Cole
“**RASĀYAN Journal of Chemistry**” 13 (2020) 1030-1036.
- Comparative study of crystallite size using XRD and TEM results for pure and V₂O₅ doped CdOFePO₄ composite nanopowders
SK. Khaja Muswareen, K. Venkatarao, Y. Nagabhaskararao, Sandhya Cole
“**Physical Chemistry Research**” 11(2) (2023) 241-251.
- Effect of TiO₂ doping on structural and optical properties of CdSZn₃(PO₄)₂ nanocomposites
G. Sreedevi, **SK. Khaja Muswareen**, V. Jayalakshmi, Sandhya Cole
“**Applied Physics A (Springer)**” 125 (2019) 741(1-11).
- Hydrothermal Synthesis and Micro-Structural, Optical and Luminescence Properties of Core-Shell Hetero Structure CdS/Zn₃(PO₄)₂ Nanocomposite
G. Sreedevi, T. Pullarao, **SK. Khaja Muswareen**, S. Suresh, P. Vijaya Sirisha, CH. Rajyalakshmi, V. Jayalakshmi.
“**Asian Journal of Chemistry**” 35(8) (2023) 1836-1842.

AWARDS AND RECOGNITIONS

- University Research Fellowship (URF) granted by Acharya Nagarjuna University, Guntur, Andhra Pradesh for carrying Ph.D. research work.
- **Best Poster Presentation Award** in National Seminar on Advanced Functional Materials, Department of Chemistry, Acharya Nagarjuna University, Guntur, Andhra Pradesh., 24th September 2019.
- **C. R. K. Murthy Cash reward** for excellence in studies for two years (2012 and 2013), Department of Physics, Acharya Nagarjuna University, Guntur, Andhra Pradesh.
- Sri Garapati Venkateswara Rao **Gold medal** for excellence in Degree Science group (2008-2011), Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada, Andhra Pradesh.
- Kaja Venkateswara Rao **Gold medal** for the outstanding performance in Hindi (2008-2011), Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada, Andhra Pradesh.
- The **Best student award** by Akhil Bharatiya Vidyarthi Parishad, Vijayawada, for the year 2009-2010.

SKILLS

- Expert in Microsoft Office, with a focus on Excel
- Languages Known: C
- Database: Origin, Mat lab

I hereby declare that the details stated above are true and correct to the best of my knowledge.

Place: Tadepalli.

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