

RESUME

CAREER OBJECTIVE:

To gain expertise and build a strong research career in the frontier areas of Nanoscience and Nanomaterials and apply the same in high end research in order to develop futuristic applications.

AREAS OF INTEREST:

- Synthesis of nanomaterials and their characterization.
- Semiconductor thin films for solar cell applications.

EDUCATIONAL QUALIFICATIONS:

Course	Institution	Month&Year of passing	Percentage (%)
Ph.D	CINVESTAV-IPN, Mexico City, Mexico.	January 2013 to till date	8.92 upto 2 nd semester
M.Sc	PSG College Of Arts & Science, Coimbatore.	April 2012	89
B.Ed	Krishna College Of Education For Women, Elayampalayam.	May-2010	80.9
B.Sc	Nehru Memorial College, Puthanampatti.	April 2009	82.75
HSc	Annai Lourdu Girls Higher Secondary School, Thennur.	March-2006	72.75
SSLC	Annai Lourdu Girls Higher Secondary School, Thennur.	April-2004	93

RESEARCH EXPERIENCE:

Ph.D project:

Title : Synthesis and characterization of nano-CdS thin film and deposition of it over CZTS and analysis of CZTS/nano-CdS junction properties.

Place : CINVESTAV-IPN (Program on Nanoscience and Nanotechnology), Mexico City, Mexico.

Duration : January 2013 to till date.
Summary : CdS nanoparticles were synthesized using chemical precipitation method by varying different time and temperatures. These nanoparticles will be applied to make a thin film. CdS thin films will be made by chemical bath deposition technique by adjusting pH for CZTS solar cell applications.

Master project:

Title : Growth and characterization of a new semi organic NLO crystals **L-ALANINE SODIUM NITRATE**.
Place : PSG College of Arts & Science, Coimbatore
Duration : 6 Months (November 2011-May 2012)
Team Size : Single
Description : To study the quality of the crystal.

CONFERENCE PRESENTATION:

- Presented a poster on A PARADIGM CHEMICAL SYNTHETIC ROUTE FOR THE FABRICATION OF CdS NANOPARTICLES, in the Advances in Functional Semiconducting Materials Symposium at the XXII International Materials Research Congress held in Cancun, Mexico from August 11th to 15th, 2013.

WORKSHOP AND TRAINING PROGRAMS:

- Participated two days training program on "ANALYTICAL INSTRUMENTATION".
- Participated two days workshop on "SCIENCE ACADEMIES LECTURE WORKSHOP".
- Participated STPIP (SUMMER TRAINING PROGRAMME IN PHYSICS) during May 30th - 18th June-2011.
- Participated one day seminar on "LASER AND IT'S APPLICATIONS".
- Participated in the electronic exhibition on 21st Feb 2009.
- Participated in the essay contest on 28th Feb.

PERSONAL DETAILS:

Full name : Aruna Devi Rasu Chettiar
Father's name : Rasu Chettiar
Mother's Name : Jayalakshmi
Date of Birth : 5th May 1989
Nationality : Indian

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Languages known : Tamil and English
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DECLARATION:

I hereby declare that all of the above information provided by me is correct and up to date to the best of my knowledge.

Place : Mexico City,

Date: 16-07-14

R. Aruna Devi