

**M. LATHA**

**(NANOSCIENCE AND  
NANOTECHNOLOGY)**

**MOBILE NO**

+52 1 55 1812 3006

**E-MAIL ID**

*lathapriya8@gmail.com,  
lmarasamy@cinvestav.mx*

**ADDRESS FOR  
COMMUNICATION**

Alampalayam kilaku,  
Naalu moolai road,  
Erode-638314.  
Tamil Nadu.  
India.

**PERSONAL PROFILE**

Father's Name : Marasamy  
Mother's Name : Sampooranam  
Date of Birth : 30.06.1988  
Gender : Female  
Nationality : Indian  
Religion : Hindu  
Languages : Tamil, English

**CURRICULUM VITAE**



**Objective**

To work as an enthusiastic, hardworking and honest professional in a competent environment that enables me to widen my knowledge with the emerging trends of micro/nano materials for renewable energy production.

**Academic Chronicle**

Course	Institution	Year of passing	Percentage
Ph.D	The Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico	2013 to till date	
M.Sc	PSG College of Arts & Science, Coimbatore.	2010-2012	91.21
B.Ed	Adharsh Vidhyalaya College of Education, Paruvachi.	May-2010	79.60
B.Sc	P.K.R Arts College for Women, Gobichettipalayam.	2006-2009	87.72
HSc	Government Higher Sec School, Alampalayam.	March -2005	62.25
SSLC	Government Higher Sec School, Alampalayam.	March-2003	70.60

**Areas of Interest**

- Synthesis of micro/nano materials and their characterization.
- Semiconductor nanostructured thin films for renewable energy.

## ***Project details***

### ***Ph.D***

Title of the Project: Synthesis and Characterization of CIGS nanostructured thin film by co-evaporation technique.

Duration : 2013 to till date ( Expected date of completion March 2017)

### ***Master of Science***

Title of the Project: Growth and Characterization of a new semi organic NLO Crystals ***L-ALANINE POTASSIUM NITRATE***

Duration : 6 Months

Team Size : Single

Description : To study the quality of the crystals

## ***Publications***

- **M. Latha**, R. Aruna Devi, S. Velumani, Goldie Oza, P. Reyes-Figueroa, M. Rohini, I. G. Becerril-Juarez, and Junsin Yi “Synthesis of  $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$  Nanoparticles by Thermal Decomposition Method with Tunable Ga Content” *Journal of Nanoscience and Nanotechnology*.
- R. Aruna Devi, **M. Latha**, S. Velumani, Goldie Oza, P. Reyes-Figueroa, M. Rohini, I. G. Becerril-Juarez, and Junsin Yi “Synthesis and characterization of cadmium sulfide nanoparticles by chemical precipitation method” *Journal of Nanoscience and Nanotechnology*.
- M. Rohini, P.Reyes, S.Velumani, **M.Latha**, Goldieoza, I. Becerril-Juarez, R.Asomoza “Parametric optimization of Mechanochemical process for synthesis of  $\text{Cu}(\text{In,Ga})_0.5\text{Se}_2$  nanoparticles” *Materials Science in Semiconductor Processing*.

## ***Conference presentations***

1. **M.Latha**, S.Velumani, M.Rohini, Ignacio G Becerril and R.Asomoza “SYNTHESIS AND CHARACTERIZATION OF CIGS NANOPARTICLES BY CHEMICAL METHOD FOR SOLAR CELL APPLICATION” XXII International Materials Research Congress, IMRC 2013, August 11-15,Cancun, Mexico.
2. **M.Latha**, R.Aruna Devi, S.Velumani, I.G. Becerril-Juarez, R.Asomoza and Junsin Yi “SYNTHESIS AND CHARACTERIZATION OF CIGS NANOPARTICLES BY THERMAL DECOMPOSITION METHOD FOR SOLAR CELL APPLICATIONS” International Conference on Microelectronics and Plasma technology, ICMAP 2014, July 8-11, Gunsan, Korea.

## *Conference presentations*

3. R.Aruna Devi, **M.Latha**, S.Velumani, I. G. Becerril-Juarez, R.Asomoza and Junsin Yi "SYNTHESIS AND CHARACTERIZATION OF CdS NANOPARTICLES BY CHEMICAL PRECIPITATION METHOD" International Conference on Microelectronics and Plasma technology, ICMAP 2014, July 8-11, Gunsan, Korea.
4. **M.Latha**, R.Aruna Devi, S.Velumani, I.G. Becerril-Juarez, R.Asomoza and Junsin Yi "FORMATION MECHANISM OF CIGS NANOPARTICLES BY THERMAL DECOMPOSITION METHOD" XXII International Materials Research Congress, IMRC 2014, August 17-21, Cancun, Mexico.
5. **M.Latha**, R.Aruna Devi, S.Velumani, I.G. Becerril-Juarez, R.Asomoza and Junsin Yi "TIME-DEPENDENT CIGS NANOPARTICLE SYNTHESIS BY HOT INJECTION METHOD FOR SOLAR CELL APPLICATIONS" XXII International Materials Research Congress, IMRC 2014, August 17-21, Cancun, Mexico.
6. R. Aruna Devi, **M.Latha**, S.Velumani, I. G. Becerril-Juarez, R.Asomoza and Junsin Yi "TIME-DEPENDENT CdS NANOPARTICLE BY CHEMICAL PRECIPITATION METHOD" XXII International Materials Research Congress, IMRC 2014, August 17-21, Cancun, Mexico.
7. R. Aruna Devi, **M.Latha**, S.Velumani, I. G. Becerril-Juarez, R.Asomoza and Junsin Yi "EFFECT OF TEMPERATURE ON CdS NANOPARTICLES BY CO-PRECIPITATION METHOD" XXII International Materials Research Congress, IMRC 2014, August 17-21, Cancun, Mexico.
8. **M.Latha**, R.Aruna Devi, S.Velumani, I.G. Becerril-Juarez, R.Asomoza and Junsin Yi "FORMATION MECHANISM OF CuIn<sub>0.7</sub>Ga<sub>0.3</sub>Se<sub>2</sub> NANOPARTICLES BY THERMAL DECOMPOSITION METHOD" Global Photovoltaic Conference, International Symposium on Photovoltaics (ISP 2014) November 10-11, BEXCO, Busan, Korea.
9. R.Aruna Devi, **M.Latha**, S.Velumani, I.G.Becerril-Juarez, Jae-Hyeong Lee, Donguk Kim, Wonkyu Chae, Minha Kim and Junsin Yi "SYNTHESIS AND CHARACTERIZATION OF CdS NANOPARTICLES BY CO-PRECIPITATION METHOD" Global Photovoltaic Conference, International Symposium on Photovoltaics (ISP 2014) November 10-11, BEXCO, Busan, Korea.

## *Workshops/Seminars*

- Attended RIPE Programme.
- Participated STPIP (SUMMER TRAINING PROGRAMME IN PHYSICS) during May 30th - 18th June-2011.
- Participated One Day Seminar on “LASER AND IT’S APPLICATIONS”.
- Participated Two Days Training Programme On “ANALYTICAL INSTRUMENTATION”.
- Participated Two Days Workshop On “SCIENCE ACADEMIES LECTURE WORKSHOP”.

## *Extra Curricular Activities*

- Attended NSS (National Social Service) Camp.

## *Declaration*

I hereby declare that the above-mentioned information is true to the best of my knowledge and belief.

Place:

Date:

Yours Sincerely,

**(M. Latha)**