

OBJECTIVE:

To enhance and develop my innovative and technical skills in the fields of nanoscience and nanotechnology through learning and practice leading to the growth of the society.

PROFILE:

Self-motivated, passionate about research, good communication and presentation skills interested in applying thoughts and innovative research.

EXPERIENCE:

- **Scholar-Oct 2017 to till date:** Assisting *Pr. Dr. Velumani SUBRAMANIAM* on various activities since October 2017 to till date.
- **Project (research) Assistant- Dec 2006 to Jan 2009:** in a DRDO project entitled, "*Fabrication of Electro-Optical Modulator using DAST Crystal*" under *Prof. Dr. S. Kalainathan*, VIT University, Vellore-INDIA from for the growth DAST Crystal and establishing laser lab in the university.

EDUCATION:

ACADEMICS	INSTITUTION	UNIVERSITY/BOARD	YEAR	RESULT (%)
Ph. D Nanoscience & Nanotechnology	CINVESTAV-IPN, Mexico	CINVESTAV-IPN, Mexico CDMX	2018- ongoing	
M.Sc., Physics	VIT University- Vellore, INDIA	VIT University, Vellore, TN INDIA	2003-05	8.12 (CGPA)

INTERESTED AREAS:

- Nano materials for renewable energy and environment: *Thermoelectrics*, *Photovoltaics*, and *Photocatalysis*

PUBLICATIONS

Peer-reviewed articles:

2018:

1. *Electrical, Optical, and Topographical Properties of RF Magnetron Sputtered Aluminum-doped Zinc Oxide (AZO) Thin Films Complemented by First-Principles Calculations*, S. Karthick, J.J. Ríos-Ramírez, **S. Chakaravarthy**, S. Velumani, **Journal of Materials Science-Materials in Electronics**, (*accepted*)

EQUIPMENT TRAINING:

- Undergone intensive training at *nLab, Micra nanotecnologia S.A de C.V, Mexico* in using the *TESCAN-MIRA3 field emission scanning electron microscopy (SE, BSE, In-beam, LV-STD, STEM, and EDAX)* from *March 12, 2018 to March 15, 2018*

CHEMICAL SYNTHESIS:

- 🌀 Inorganic Synthesis –solution chemistry route as well as solid state reactions.
- 🌀 Organic synthesis procedures.

INSTRUMENTS HANDLED:

- **Electron Microscopes:** Carl Zeiss: *Auriga FE-SEM*, TESCAN: *SEM/STEM-VEGA3, FESEM-MIRA3*
- **X-Ray Diffractograms:** Phillip D-500 X-Ray Diffractometer, Bruker D2 Phaser.

DECLARATION:

I hereby solemnly affirm that all the above details provided are true to the best of my knowledge.

(SRIKANTH CHAKARAVARTHY)