

PROFILE



Name : **R. MARY MATHELANE**
Designation : Associate Professor
Department : PHYSICS
Date of Birth : 12.03.1964
Date of Appointment : 06.11.1987

CONTACT DETAILS

Address : 15-3-15, Varatharajan Street,
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ACADEMIC

S. No.	Degree	University / Institution	Year of Completion
1.	M.Sc.	Holy Cross College	1986
2.	M.Phil.	Alagappa University	2001
3.	M.Ed.	Madurai Kamaraj University	2002
4.	Ph.D.	Mother Teresa Women's University	Waiting for Viva Voce

Total Experience UG : 26

PG : 08

Area Specialization/Interest : THIN FILM SOLAR CELLS

Academic Affiliation :

- NSS Programme officer (2004-2006)

RESEARCH EXPERIENCE

Projects Undertaken : Minor Project

1. Title of the Project : State of the art technology of Solar Air Heaters
Funding Agency : UGC
Period : 2007-2009
Amount Sanctioned : Rs. 60,000/-

2. Title of the Project : Comparative study of Aluminum and Silver Thin films
Funding Agency : UGC
Period : 2013-2015
Amount Sanctioned : Rs. 2,00,000/-

3. Title of the Project : Preparation and characterization of Aluminum thin films
Funding Agency : TNSCST
Period : 2012-2013
Amount Sanctioned : Rs. 10,000/-

RESEARCH GUIDANCE :

M.Phil. (guided) – 1

PUBLICATIONS : Paper entitled,

- Characteristics of CdTe Nano crystalline thinfilm, International Journal of applied Engineering, 1(2011), 125-128.
- Optical properties of CdS_xTe_{1-x} nanocrystalline thin films, International Journal of Engineering Sciences, 2 (2013), ISSN 2319-1813.
- Design Development and deployment of Distributed Solar Dryer, International Journal of power Engineering, 2.1(2010) P-89-93 ISSN 2161-6442.
- Synthesis and Characterization of Cadmium Sulfide nano particles, International Journal of Engineering Sciences, 2 (2013), 108-110, ISSN 2319-1813.
- Characteristics of Brush electrodeposited CdS films, Chalcogenide letters, Vol.6, No.9, p.483-490, 2009.
- Photoelectrochemical Properties of Brush plated CdSTe films, doi: 10.1149/1.4718395 ECS Trans.2012 Vol.41, Issue 44, 87-92.

Seminars/Conferences/Workshops Participated: - 13

PRESENTATIONS

- **Optical properties of materials of components and their influence of thermal performance of solar thermalgadgets** in the National Seminar at PSN College of engineering & Technology, Tirunelveli in 2010-11.
- **Characteristic studies of potassium penta borate single crystals** in the International Seminar at Navarasam Arts and Science College for Women on 18-08-2011.
- **Influence of potassium penta borate single crystals** in the National Conference at Jayaram College of engineering and technology on 19 & 20-08-2011.
- **Optical studies of Potassium penta borate single crystals** in the National Conference at N.P.R. Arts and Science College, Natham on 30-09-2011.
- **Characteristics of CdTe nano crystalline thin films** in the International Conference at M.T.Women's University, Kodaikanal on 28 & 29.02.2012.

BOOK PUBLISHED

- Practical Physics, ACCA Publication, Periyakulam in 2007.