

CURRICULUM VITAE

Dr. M. PANDIARAMAN

156A/5C, Sithi Vinayagar kovil Street,

Thirupparankundram,

Madurai- 625 005.

Email Id: pandiaraman@gmail.com.

Mobile: 099425-99246

OBJECTIVE AND SUMMARY

- 1 Ph.D with 7 years experience (Research: 6 years and Teaching: 2 years) & Looking for Assistant Professor position.
- 2 Experienced in Synthesis and characaterisation of thin films.
- 3 Experienced in Optical studies with various analytical techniques such as UV-Visible, FT-IR, Fluorescence, Spectroscopic Ellipsometer, and Micro-Raman Studies.

ACADEMIC QUALIFICATIONS

	Degree/ Diploma	Institution/University	Subject	Year of Passing	% of marks
Ph.D.	Ph.D	Madurai Kamaraj University, Madurai.	Physics	December 2011	
P.G.	M.Sc	Madura College, Madurai.	Physics	2004	72.5%
U.G.	B.Sc	Sourashtra College, Madurai.	Physics	2002	59.6%
H.Sc	-	HDI Jain Matric Hr.Sec. School, Madurai	Physics,Chemistry, Maths, Biology	1999	65%
X std	-	HDI Jain Matric Hr.Sec. School, Madurai	Maths, Sciene, History, Geography, Tamil, English	1997	60%

PROFESSIONAL AND RESEARCH EXPERIENCE

Ph. D (Physics)

Title: "Optical Properties of Silver Chalcogenide thin films".

(Supervisor: Prof. N.Soundararajan, Madurai Kamaraj University, Madurai.)

HONORS AND AWARDS

- Junior Research fellow in UGC-Rajiv Gandhi fellowship from September 2005 to Aug 2007
- Senior Research Fellows in UGC-Rajiv Gandhi fellowship from September 2007 to Aug 2010

TECHNICAL EXPERTISE IN THE FIELDS OF

Low temperature studies

Nano thin films

Inorganic complex materials

Optical studies

INSTRUMENTS HANDLED

Low temperature resistivity measurement

UV-Vis spectrophotometer (JASCO V-550)

FT-IR spectrophotometer (JASCO 410)

Fluorescence spectrophotometer

Spectroscopic Ellipsometer

Micro-Raman Spectrometer

TEACHING EXPERIENCE (PAST & PRESENT) : 1 years and 8 months

COMPUTER SKILLS

SciFinder, MS Office, MS-Excel, Origin and adept in scientific documentation and presentation.

PUBLICATIONS

1. Ellipsometric studies on Silver telluride thin films
M.Pandiaraman, N.Soundararajan, C.Vijayan, C.Kumar, R.Ganesan
J. Nano-Electron. Phys., **3** (2011) 32-42
2. Optical studies on thermally evaporated nano-Ag₂Te thin films
M.Pandiaraman, N.Soundarajan, and R.Ganesan
Defects and Diffusion forum, **319-320** (2011) 185-192
3. Effect of thickness on optical band gap of Silver telluride thin films
M.Pandiaraman, N.Soundararajan, and C.Vijayan
Journal of Ovonic Research, **7(1)** (2011) 21-27.
4. Ellipsometric studies on Silver selenide thin films
M.Pandiaraman, C.Vijayan, N.Soundarajan, and R.Ganesan
AIP Conf. Proc. **1349**, (2011) 755-756.
5. Spectroscopic studies on Silver selenide thin films
M.Pandiaraman, N.Soundararajan, C.Vijayan, C.Kumar, R.Ganesan
Journal of Ovonic Research, **6(6)** (2010) 285-295.
6. Structural and optical properties of Ag₂SeTe nano thin films prepared by thermal evaporation technique
C.Vijayan, **M. Pandiaraman**, N. Soundararajan, R. Chandramohan, V. Dhanasekaran, K. Sundaram, T. Mahalingam, A. John Peter
J Mater Sci: Mater Electron, DOI 10.1007/s10854-010-0175-y (2010).
7. Optical constants of Cadmium Telluride thin films
P.Nithyakalyani, **M.Pandiaraman**, P.Pannir, C.Sanjeviraja, N.Soundararajan.
American Institute of Physics, **Vol.1004** (2008) 202-206
8. Micro-Raman studies on Ag₂Se thin films
M. Pandiaraman, N.Soundararajan and C.Vijayan
Journal of Theoretical and Applied Physics, (2012).
9. Fabrication of Ag₂SeTe ternary thin films by thermal evaporation
C Vijayan, M Pandiaraman, N Soundararajan, Rathinam Chandramohan, S Ramasamy.
Journal of Surface Engineering, Accepted (2014)

10. Photoluminacence Studies on $\text{Ag}_2\text{Se}_{0.2}\text{Te}_{0.8}$ Thin Films

C Vijayan, M Pandiaraman, N Soundararajan, P. Gnanadurai, Rathinam Chandramohan

International Journal of ChemTech Research, Vol.6, No.6, pp 3343-3345, Aug-Sep 2014

International Conference

- 1) Micro-Raman studies on silver selenide thin films
M. Pandiaraman, N. Soundararajan, C.Vijayan, and K. Neyvasagam
International Conference on Advanced materials and Applications, Kalasalingam University, India, March (2011)
- 2) Photoluminescence studies on silver telluride thin films
M. Pandiaraman and N. Soundararajan
International conference on Nanotechnology and Ultrasound, St.Joseph College, India, Jan (2011)
- 3) Ellipsometric studies on silver selenide thin films
M. Pandiaraman, N. Soundararajan, C. Kumar and R.Ganesan
55th DAE- Solid State Symposium, Manipal University, India, Dec (2010)
- 4) Ellipsometric studies on silver selenide thin films
M.Pandiaraman, C.Vijayan, K.Neyvasagam, N.Soundararajan
National conference on Materials for energy storage and conversion, Sri Venkateshwara university, Tirupathi, India, Jan (2010)
- 5) Optical studies on silver thin films
M.Pandiaraman, M.Muthamil Selvan, N.Soundararajan, C.Sanjeeviraja
International conference on materials science research and nanotechnology, Mother Teresa Women's University, Kodaikanal, India, March (2008)
- 6) Phase Transition in Cupric Telluride.
K.Neyvasagam, C.Vijayan, **M.Pandiaraman** and N.Soundararajan.
National Conference on Advances In Material Scieinces (NSAMS-2006).
OP-22, Tirunelveli, INDIA. Mar-2006.
- 7) PC based measurement on dielectric constants of liquids between 300k and 500k.
C.Vijayan, K.Neyvasagam, **M.Pandiaraman** and N.Soundararajan
National Symposium on Instrumentation (NSI-31), Gwalior, INDIA. Oct-2006.

- 8) Optical Constants of Cadmium Telluride.
P.Nithyakalyani, **M.Pandiaraman**, P.Pannir, C.Sanjeeviraja, N.Soundararajan.
4th National Conference on Thermo Physical Properties (nctp07) OP-M17, Kollam, INDIA. Sep 2007.
- 9) Effect of deposition rate on the band gap of Cadmium telluride thin films,
R.Indurani, **M.Pandiaraman**, N.Soundararajan, K.Pitchumani.
52nd DAE Solid State Physics Symposium, Mysore, INDIA. Dec (2007)
- 10) Optical and electrical studies on copper thin films
S.Sivaramakrishnan, **M.Pandiaraman**, K.Neyvasagam, C.Vijayan, N.Soundararajan,
C.Sanjeeviraja
National conference on advanced materials devices and technologies, Sri Venkateshwara university, Tirupathi, India, Feb (2008)
- 11) Effect of structure on the band gap of selenium films
V. Vijayalakshmi, **M.Pandiaraman**, C.Vijayan and N.Soundararajan
Emerging materials, devices and technologies, Sri Venkateshwara university, Tirupathi, India, Feb (2009)

Schools:

- 1) DAE-BRNS Basic sciences school on condensed matter interface with
Chemistry and Biology, BARC, Mumbai, India (2008)

Workshop:

- 1) Workshop on optical communication, Gandhigram Rural University,
Gandhigram, India March (2008)
- 2) National workshop on theory and practice of X-ray diffraction techniques,
Alagappa University, Karaikudi, India (2009)

PERSONAL DETAILS:

Name : Dr. M. PANDIARAMAN

Father's Name :Mr. R. Mariappan.

Date of Birth : 05-12-1981

Sex : Male

Marital status :Married

Nationality :Indian

Languages known :Tamil & English