

RESUME



Dr. A. AMALARANI
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TAMILNADU

PERSONAL DETAILS

Date of Birth	: 19.11.1984
Qualification	: M.Sc.,M.Phil.,Ph.D.
Designation	: Guest Lecturer
Department	: Physics
Community	: Sozhia Vellalar
Religion	: Christian
Nationality	: Indian
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ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
Ph.D.	Thin Films		Bharathidasan University	2017
M.Phil.	Thin Films		University of Madras	2008
M.Sc.	Physics	Ponnaiyah Ramajayam College, Thanjavur	Bharathidasan University	2007
B.Sc.	Physics	Ponnaiyah Ramajayam College, Thanjavur	Bharathidasan University	2005

TEACHING EXPERIENCE

Date of Appointment	17.07.2025
Date of Retirement	
Teaching Experience	
Research	Thin Films

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc. Physics	Rani Anna Govt. College for Women	17.07.2025	Till date	1 year 2 months
B.Sc. Maths	Rani Anna Govt. College for Women	17.07.2025	Till date	1 year 2 months
M.Sc. Physics	Rani Anna Govt. College for Women	17.07.2025	Till date	1 year 2 months

ORIENTATION/REFRESHER COURSES/FACULTY DEVELOPMENT PROGRAMME UNDERGONE (2)

S.No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1.	Faculty Development Programme	St. Christopher's College of Education and United Board for Christian Higher Education Asia, Chennai	Chennai/10-14 January 2020
2.	Refresher Course on Physics	Manonmaniam Sundaranar University, Tirunelveli	Tirunelveli/29-30 January 2018

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
	Performance of spray deposited undoped and Ga doped ZnO thin films for the applications of Dye-Sensitized Solar Cell fabricated by liquid phase technique	Bharathidasan University

AREAS OF RESEARCH

Material science

Nanoscience

PUBLICATIONS: SCOPUS INDEXED JOURNALS (6) WEB OF SCIENCE (6)			
S.No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg.No
1.	Characterization of Microwave assisted chemically deposited SnS thin film	Chalcogenide Letters	6(9) (2009) 455
2.	Analysis of Precursor Decomposition Temperature in the Formation of CdO thin films prepared by spray pyrolysis method	J. American Science	6(2) (2010) 75
3.	Structural and Optical Characterization of spray deposited SnS thin film	J. American Science	6(3) (2010) 22
4.	Temperature dependent grain size and microstrain of CdO thin films prepared by spray pyrolysis method	<i>Bulletin of Material Science</i>	Vol. 34, No. 4, July 2011, 601-605
5.	Structural, Morphological, Optical and Compositional characterization of spray deposited Ga doped ZnO thin film for Dye Sensitized Solar Cell application	<i>Superlattices and Microstructures</i>	Vol. 75, November 2014, 398-408
6.	Enhancement of efficiency in dye-sensitized solar cell using spray deposited Ga doped ZnO thin films	<i>Journal of Material Science: Materials in Electronics</i>	Vol. 26, 2015, 762-768
7.	Characterization of spray deposited ZnO thin films for Dye-Sensitized Solar Cell Application	<i>Appl. Physics. A</i>	(2016) 122: 647
8.	Evaluation of Structural and Optical parameters of spray deposited ZnO thin films for Dye-Sensitized Solar Cell Application	<i>Journal of Chemical and Pharmaceutical Sciences</i>	Vol. 9, Issue 1, January-March 2016, 183-185
9.	A Review of Recent Results on Cyclic Voltammetry Studies of Metal Chalcogenide Thin films	<i>Journal of Engineering and Applied Sciences</i>	Vol. 13, Issue 9, 2018, 2773-2779
10.	Structural, morphological and Ammonia sensing properties of spray deposited CeO ₂ films	<i>Materials Today: Proceedings</i>	Available Online, 15 March 2023 http://doi.org/10.1016/j.matpr.2023.02.296