

RESUME



Dr. P. Esther Rubavathi
Guest Lecturer,
Rani Anna Govt. college for Women
Tirunelveli -627 008
TAMIL NADU

PERSONAL DETAILS

Date of Birth	: 26.11.1991
Qualification	: M.Sc., M.Phil., Ph.D.
Designation	: Guest Lecturer
Department	: Physics
Community	: BC Nadar
Religion	: Christian
Nationality	: Indian
Email ID	: runidaduliph90@gmail.com

ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
Ph.D.	Material Science		Manonmaniam Sundaranar University	2021
M.Phil.	Material Science		Manonmaniam Sundaranar University	2015
M.Sc.	Physics	Sarah Tucker College	Manonmaniam Sundaranar University	2014
B.Sc.	Physics	Sarah Tucker College	Manonmaniam Sundaranar University	2012

TEACHING EXPERIENCE

Date of Appointment	20.01.2023
Date of Retirement	
Teaching Experience	
Research	Material Science

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc. Physics	Rani Anna Govt. College for Women	20.01.2023	Till date	3 years 8 months
B.Sc. Maths	Rani Anna Govt. College for Women	20.01.2023	Till date	3 years 8 months
M.Sc. Physics	Rani Anna Govt. College for Women	20.01.2023	Till date	3 years 8 months

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

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1.	Naan Muthalvan	Govt. of Tamil Nadu	Manonamian Sundaranar University, 24.08.2023 – 28.08.2023
2.	Naan Muthalvan	Govt. of Tamil Nadu	Manonamian Sundaranar University, 30.01.2023 – 03.02.2023
3.	Advanced Technologies for emerging Research in Mechanical Engineering		Annamacharya Institute of Technology & Sciences 05.12.2022 to 09.12.2022

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
	Impact of oxygen off-stoichiometry on the origin of magnetoelectric properties of Fe, Co, Fe-Gd and Fe-Dy substituted BaTiO _{3-δ} ceramics	Manonmaniam Sundaranar University

AREAS OF RESEARCH

Material science

Nanoscience

PUBLICATIONS: SCOPUS INDEXED JOURNALS (0) WEB OF SCIENCE (7)

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impactfactor & Pg. No
1.	Suppression of intermediate antiferroelectric phase in sub-micron grain size $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ ceramics	<i>Journal of Material Science: Material in Electronics</i>	33 , 25006–25024 (2022). I.F. 2.478
2.	Origin of magnetic, magnetoelectric effect and the influence of reentrant ferroelectric phase on the structural and multiferroic properties of Dy^{3+} - Fe^{3+} co-substituted BaTiO_3 ceramics	<i>Journal of Magnetism and Magnetic Materials</i>	538 (2021):168260 I.F. 3.097
3.	Enrichment of magnetoelectric effect in the hexagonal $\text{BaTi}_{1-x}\text{Co}_x\text{O}_3$ artificial type-II multiferroics by defects	<i>Journal of Magnetism and Magnetic Materials</i>	529 (2021):167927. I.F. 3.097
4.	Impact of non-magnetic BaTiO_3 substitution on structure, magnetic, thermal and ferroelectric properties of BiFeO_3 ceramics at morphotropic phase boundary	<i>Materials Chemistry and Physics</i>	255 (2020): 123560. I.F. 4.094
5.	Structure, morphology and magnetodielectric investigations of $\text{BaTi}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ceramics	<i>Journal of Materials Science: Materials in Electronics</i>	30 , no. 6 (2019): 5706-5717. I.F. 2.478
6.	Impact of Ba/Ti ratio on the magnetic properties of BaTiO_3 ceramics	<i>Vacuum</i>	159 (2019): 374-378. I.F. 4.11
7.	Structure, microstructure, magnetic and magnetodielectric investigations on $\text{BaTi}_{(1-x-y)}\text{Fe}_x\text{Nb}_y\text{O}_3$ ceramics	<i>Ceramics International</i>	44, no. 7 (2018): 8161-8165. I.F. 5.532.

PUBLICATIONS: UGC LISTED JOURNALS (7)

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Suppression of intermediate antiferroelectric phase in sub-micron grain size $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ ceramics	<i>Journal of Material Science: Material in Electronics</i>	33 , 25006–25024 (2022). I.F. 2.478
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PUBLICATIONS: OTHER INDEXED JOURNALS (0) International: 7			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg.No
1.	Suppression of intermediate antiferroelectric phase in sub-micron grain size $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ ceramics	<i>Journal of Material Science: Material in Electronics</i>	33 , 25006–25024 (2022). I.F. 2.478
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6.	Impact of Ba/Ti ratio on the magnetic properties of BaTiO_3 ceramics	<i>Vacuum</i>	159 (2019): 374-378. I.F. 4.11
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WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP			
PAPER PRESENTED: National (9) International (2)			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	International Conference on Advanced Materials Chemistry at the Interfaces of Energy, Environment and Medicine	UGC	31.Jan.2020 Manonmaniam Sundaranar University
2.	National Conference on Energy Materials (NCEM)	UGC-SAP-DRS-II	28-29 th June 2018 Manonmaniam Sundaranar University
3.	National symposium (MRSI) on Advances in Functional and Exotic Materials	UGC	12-16 Feb 2018 Bharathidasan University, Trichy
4.	National Seminar on Advances in Materials Science		Mar 02-03, 2017, Manonmaniam Sundaranar University
5.	International Workshop on Advanced Functional Materials and Devices		8-12 th Jan 2017 Manonmaniam Sundaranar University
6.	National conference on Chemistry For Sustainable Energy, Clean Environment and Health	UGC	21 & 22 Jan. 2015. Manonmaniam Sundaranar University
7.	National seminar on Advances in Materials Science		September 2014 Manonmaniam Sundaranar University
8.	National seminar on Recent Trends in Material Science		October 2013 Sarah Tucker College, Tirunelveli
9.	National seminar on Insights in Nonlinear Dynamics & Nanoscience		Sarah Tucker College, Tirunelveli on February 2011
10.	State level seminar on Groups & Graphs” and “Mathematics for competitive examinations		Sarah Tucker college, Tirunelveli on June 2010.
11.	SUMMER TRAINING PROGRAMME IN PHYSICS (STPIP-2013)		TamilNadu Academy of Sciences, Science City & Dept. Of Nuclear Physics, University of Madras, Guindy campus, Chennai 600 025, on June 6 – June 26, 2013.

Date: 15.09.2026

NAME: Dr. P. Esther Rubavathi