

RESUME



Name: JAIN RUTH D.E.
Designation: Assistant Professor
Department: Physics
Address : 31/168, North Street, Marthandam, Kanyakumari -629165

PERSONAL DETAILS

Date of Birth : 18/03/1982
Qualification : M.Sc, M.Phil, Ph.D
Designation : Assistant Professor
Department : Physics
Community : BC
Religion : Christian
Nationality : Indian
Mobile : 9994045353, 6374607438
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ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B.Sc	Physics	Nesamaony Memorial Christian College, Marthandam	Manonmaniam Sundaranar University ,	April 2004

			Tirunelveli-12.	
M.Sc	Physics	Nesamaony Memorial Christian College, Marthandam	Manonmaniam Sundaranar University , Tirunelveli-12.	April 2006
M. Phil	Physics	Manonmaniam Sundaranar University , Tirunelveli-12.	Manonmaniam Sundaranar University , Tirunelveli-12.	Nov 2008
Ph.D	Physics	Manonmaniam Sundaranar University , Tirunelveli-12.	Manonmaniam Sundaranar University , Tirunelveli-12.	April 2016

ACADEMIC IDENTITY

*VIDWAN ID	287683
*ORCID ID	0000-0002-2692-4012
*SCOPUS ID	56534088700
*RESEARCHER ID/ PUBLONS ID	U-6358-2019
GOOGLE SCHOLAR LINK	https://scholar.google.nl/citations?user=BQYY5GEAAA&hl=en

TEACHING EXPERIENCE

Date of Appointment	09/08/2021
Date of Retirement	-
Teaching Experience	UG
	PG
	M.Phil.
Research	-

COURSES/CLAS	NAME OF THE	DURATION	
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SES TAUGHT	INSTITUTIONS	From	To	Years
B.Sc, M.Sc, M.Phil	Holy Cross College, (Autonomous)Nagercoil	October 2009	March 2012	2 years 6 months
Integrated M.Sc, M.Sc	Pondicherry Central University	22/08/2016	30/05/2017	9 months

AWARDS RECEIVED	
1.	Gold Medal (University First Rank -M.Phil)
2.	Gold Medal (University First Rank - M.Sc)
3.	CSIR Project – Senior Research Fellow (SRF), (CSIR Grant No.: 03/(1238)/12/EMR-II),Project Title : “Development of Lead -free Piezoelectric Ceramics”.
4.	UGC-Dr S. Kothari Post Doctoral Fellowship (UGCDSKPDF), (Award Letter No.F.4 - 2/2006(BSR)/PH/17-18/0005 SEP 12, 2017.)
5.	Best Research Award – International Research Awards on New Scientific Inventions NESIN 2020 Awards by Science Father (Identification Number : 5624).

ADMINISTRATIVE EXPERIENCE			
S. No	DESIGNATION	INSTITUTIONS	YEAR

MEMBERSHIP		
S. No	Designation	Particulars
1.		
2.		
3.		
4.		
5.		

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE ()

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1			
2			
3			
4			
5			

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
Submitted	Investigation on $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$ –based lead-free piezoelectric ceramics	Manonmaniam Sundaranar University , Tirunelveli-12.

AREAS OF RESEARCH

Piezoelectrics
Multiferroics
Bulk ceramics
Nano materials
Thin Films

RESEARCH PROJECTS CARRIED OUT

S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration
1.	Development of room temperature magneto-electric material for multi state memory applications	University Grants Commission	3 years

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	

PUBLICATIONS: BOOKS ()			
S. No	Title of the Book	Publication	Year

BOOK CHAPTERS ()			
S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No

PUBLICATIONS: SCOPUS INDEXED JOURNALS () WEB OF SCIENCE ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No

PUBLICATIONS: UGC LISTED JOURNALS ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No

PUBLICATIONS: OTHER INDEXED JOURNALS (17) SCI Indexed			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor &Pg.No
1	Room temperature magnetoelectric coupling in Fe-doped sodium bismuth titanate ceramics. (Best Research Awarded work)	Journal of Alloys and Compounds	0925-8388,830: 154679 (2020). [IF 5.316]
2	Emerging scenario on displacive cubic bismuth pyrochlores (Bi,M)MNO _{7-δ} (M = transition metal, N = Nb, Ta, Sb) in context of their fascinating structural, dielectric and magnetic properties . (Review article)	Ceramic International	0272-8842, 46: 14346 (2020). [IF 5.532]
3	Room temperature magnetoelectric coupling and relaxor-like multiferroic nature in a biphasic of cubic pyrochlore and spinel .	Journal of Applied Physics	0021-8979, 126: 044103 (2019). [IF 2.877]
4	Room temperature multiferroicity and magnetoelectric coupling in Na-deficient sodium bismuth titanate. (First Report)	Applied Physics Letters,	0003-6951,114: 062902 (2019). [IF 3.971]
5	Structure-property relation to enhance the piezoelectric and ferroelectric properties in	Journal of Materials Science: Materials in	0957-4522 29: 5433 (2018). [IF 2.478]

	(Na _{0.5} Bi _{0.5})TiO ₃ -based non-MPB lead-free piezoelectric ceramics.	Electronics,	
6	. Investigations on the effect of Ba and Zr co-doping on the structural, thermal, electrical and magnetic properties of BiFeO ₃ multiferroics	Ceramic International,	0272-8842, 43: 15544 (2017). [IF 5.532]
7	A correlative study on strain and variation of coercive field in lead-free (Na _{0.5} Bi _{0.5})TiO ₃ -xBi(Mg _{0.5} Zr _{0.5})O ₃ -xBi(Mg _{0.5} Ti _{0.5})O ₃ ternary system.	Journal of Materials Science: Materials in Electronics,	0272-8842, 28: 15907 (2017). [IF 2.478]
8	Significant enhancement in magnetization value of the K-doped 0.75 BiFeO ₃ -0.25 BaTiO ₃ lead-free multiferroics	Materials Letters	0167-577X, 190: 270 (2017). [IF 3.423]
9	. Enhanced electrical properties in Rb-substituted sodium bismuth titanate ceramics	Appl. Phys. A ,	0947-8396, 122: 502 (2016). [IF 2.983]
10	Structural and electrical properties of bismuth magnesium titanate substituted lead-free sodium bismuth titanate ceramics	Journal of Materials Science: Materials in Electronics,	0272-8842, 27: 7018 (2016). [IF 2.478]
11	Structural and Raman spectroscopic studies of poled lead-free piezoelectric sodium bismuth titanate ceramics	Ceramic International,	0272-8842, 42: 4775 (2016). [IF 5.532]

12	. Role of strain and lattice distortion on ferroelectric and piezoelectric properties of bismuth magnesium zirconate substituted sodium bismuth titanate ceramics	Journal of Materials Science: Materials in Electronics	0272-8842, 27: 3250 (2016). [IF 2.478]
13	Isothermal grain growth and effect of grain size on piezoelectric constant of $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$ ceramics	Scripta Materialia,	1359-6462 ,112: 58 (2016). [IF 5.611]
14	Structural and electrical properties of $(1-x)(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3-x\text{Bi}(\text{Mg}_{0.5}\text{Zr}_{0.5})\text{O}_3$ lead-free piezoelectric ceramics	Ceramic International,	0272-8842,42: 3330 (2016). [IF 5.532]
15	Substitutional effect of bismuth ferrite on the electrical properties of sodium bismuth titanate ceramics	Journal of Materials Science: Materials in Electronics,	0272-8842, 27: 407 (2016). [IF 2.478]
16	Effect of cobalt substitution on the optical properties of bismuth ferrite thin films	Materials Science in Semiconductor Processing,	1369-8001, 34: 109 (2015). [IF 4.644]
17	Role of rubidium cation substitution in the A-site of sodium bismuth titanate ceramics.	Journal of Materials Science: Materials in Electronics,	0272-8842, 26: 6757(2015). [IF 2.478]

AS A RESOURCE PERSON (26)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
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1	NSRMS-2017	UGC	Satakathullah Appa College, Tirunelveli, TamilNadu, India.06/03/2017
2	Two Weeks Online FDP on “Exploring the Fabrication Techniques, Characterization and Applications of Functional Materials”	Government of TamilNadu	Faculty Development Training Centre, Coimbatore, 20/06/2022

**WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP
PAPER PRESENTED: National () International ()**

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date

**WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP
ATTENDED:**

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Familiarization of XPS and HRTEM Instrumentation and analysis techniques" organized jointly with Department of Science and Technology, DST-PURSE program and Central Instrumentation Facility (CIF)	DST	Pondicherry University,Puducherry.,22-23, 2018.
2	Quantum Information Science"		Pondicherry University,Puducherry, 17-18 February 2017
3	X-ray diffraction studies on materials		. M.S University,Tirunelveli 16 March 2015
4	Shodhganga Awareness Program		M.S University,Tirunelveli 14 May 2013
5	Recent trends in physics		M.S University,Tirunelveli.

			18 March 2013
6	Recent trends in materials science (RTMS-2012)		Sadakathullah Appa College Tirunelveli. 17December 2012

COUNTRIES VISITED

**EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES
ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)**

Date: 29/07/2022

Name: D.E. JAIN RUTH