



DR. R. JOTHI MANI

Designation : Assistant Professor
Department : Physics
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Languages Proficiency

Read : Tamil & English
Write : Tamil & English
Speak : Tamil & English

1. QUALIFICATION

S. No.	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	UG	Physics	Holy Cross College, Trichy	2005
2.	B. Ed	Physical Science	Ansaldo College of Education, Chetpet	2007
3.	PG	Physics	Annamalai University, Chidambaram	2009
4.	M. Ed	Education	St. Xavier's College of Education, Palayamkottai	2010
5.	M.Phil.	Physics	Thanthai Hans Rover College, Perambalur	2011
6.	Ph.D.	Physics	St.Xaviers College, Palayamkottai, Manonmanium Sundaranar University	2015
7.	SET	Physics	Mother Theresa Women's University, Kodaikanal	2018
8.	PGDCA	Computer Application	Manonmaniam Sundaranar University, Tirunelveli	2021

2. TEACHING EXPERIENCE / OTHER EXPERIENCE

S. No.	Institution / Organization	From - To
1.	Sarah Tucker College, Tirunelveli	2011-2012
2.	Aditanar College of Arts and Science, Tiruchendur (Project Asst-DST)	2012-2015
3.	Sadakathullah Appa College, Tirunelveli	2015-2019 (15.11.2019)
4.	Fatima College, Madurai	18.11.2019 - Till Date

3. POSITION HELD IN FATIMA (VICE PRINCIPAL, HoD, DEAN, COORDINATOR, MEMBER ETC.)

S. No.	Name of the Position	From - To
1.	Member - AICUF	2020- 2023
2.	Member – IPR CELL	2022 - 2024
3.	Member- Research Cell	2023-2025

4. ACHIEVEMENTS

S. No.	Name of the Award	Award Received for	Sponsors / Source	Date
1.	Best Paper Award	Oral Presentation	National College, Trichy	18.03.2014
2.	Best Paper Award	Oral Presentation	Sadakathullah Appa College, Tirunelveli	11.01.2016
3.	Best Paper Award	Oral Presentation	St. Joseph College, Trichy	18.11.2016
4.	Young Scientist Award	Scientific Excellence	Marina Lab, Chennai	2017
5.	Young Scientist Award	Scientific Excellence	AUAFA Periodicals	2016
6.	Best Young Faculty Award	Progression in Teaching and Research	DK International Research Foundation	2018
7.	Global Lifetime Achievement Award	Progression in Teaching and Research	Sidhartha Educational and Research Federation	31.08.2020
8.	Best Paper Award	Research Paper Presentation	A.P.C. Mahalaxmi College for Women, Thoothukudi	25.03.2022
9.	Best Performance Award	Academic Performance	Fatima College, Madurai	05.05.2022
10.	Research Excellence Award	Publications	Scientific International Publishing House	10.12.2023

5. MEMBERSHIP IN PROFESSIONAL / OTHER BODIES / COMMITTEES

S. No.	Name of the Position	Name of the Institution	Duration
1.	Additional ISO coordinator	Sadakathullah Appa College, Tirunelveli	2017-2019
2.	Student council cell (women)	Sadakathullah Appa College, Tirunelveli	2017-2019
3.	NPTEL Mentor	Sadakathullah Appa College, Tirunelveli	2018-2019
4.	Member - Board of Studies	Sri Sarada college, Tirunelveli	2022-2025
5.	Member - Doctoral Committee	Sadakathullah Appa College, Tirunelveli	
6.	Member - Doctoral Committee	St. Xaviers College, Tirunelveli	
7.	Member - Doctoral Committee	M.D.T Hindu College, Tirunelveli	

6. AREAS OF SPECIALIZATION

❖ CRYSTAL GROWTH

7. RESEARCH GUIDES/GUIDANCE DETAILS

RESEARCH DETAILS

S. No.	Name of the University in which Recognized as Guide	Registration Number	Date of Guideship Received	Ph.D. Guideship Details			
				Ongoing		Completed	
				Full Time	Part Time	Full Time	Part Time
1.	Manonmaniam Sundaranar University, Tirunelveli	MSU/RES/INT/SF/GUIDESHIP /R5/2017	28.09.2017	-	1	1	2

PH.D. GUIDANCE COMPLETED/ONGOING

S. No.	Student Name	Title of Thesis	Mode of Ph.D. (Full Time / Part Time)	Registration Number	Date of Registration	Name of University/ Institution under which Registered	Registered/ Pursuing/ Submitted/ Pre-Viva/ Viva/ Awarded	Date (Submitted / Pre-Viva/ Viva/ Awarded)
1.	A. Adeline Lydia Josephine	Evaluation of Molecular Interaction by Volumetric and Acoustic Studies in Binary and Ternary Liquid Mixtures	Part Time	1822119213 2022	05.07.2018	Manonmani am Sundaranar University, Tirunelveli	pursuing	-
2.	A. Ferin Fatima	Doping Effects of Transition Metals on ZnO Nanoparticles and their Photocatalytic Properties	Part Time	1822119213 20010	05.07.2018	Manonmani am Sundaranar University, Tirunelveli	-	03.05.2024
3.	K. Sofiya Dayana	Green synthesis of metal Nanoparticles	Part Time	1822119213 2002	05.07.2018	Manonmani am Sundaranar University, Tirunelveli	-	13.05.2024
4.	M. Sharmila	Green Synthesis of Metal Oxide Nanoparticles Using Plant Extracts	Part Time	1821119213 2009	05.07.2018	Manonmani am Sundaranar University, Tirunelveli	-	03.05.2024

M.PHIL. GUIDANCE COMPLETED/ONGOING

S. No.	Student Name	Title of Dissertation	Organization	Year
1.	M. Irfana Amrin	Green Synthesis and Characterization of Silver and Silver Oxide Nanoparticle	Sadakathullah Appa College, Tirunelveli	2018
2.	S. Durga Devi	Synthesis And Characterization of Cooper Oxide Nanoparticles	Sadakathullah Appa College, Tirunelveli	2018
3.	S. Vallipriyadarsini	Green Synthesis and Catheterization of Metal Nanoparticles	Sadakathullah Appa College, Tirunelveli	2018
4.	D. Ilakiya	Synthesis and Characterization of Cooper Oxide Nanoparticle	Sadakathullah Appa College, Tirunelveli	2019

8. ORIENTATION/REFRESHER/TRAINING PROGRAMMES/FDP ATTENDED

S. No.	Programme	Theme	Organized by	Date
1.	Refresher Course	Physics	Manonmaniam Sundaranar University, Tirunelveli	Jan. 29 & 30, 2018
2.	Training Programme	Stress and Time Management	Sadakathullah Appa College, Tirunelveli	Feb. 03, 2018
3.	Short Term Course	2D Materials	IIT- Madras	Sep. 21 -26, 2019
4.	Orientation (4 Weeks)	Higher Education Teachers-Teaching Learning	Ramanujan College, University of New Delhi	June 26 - July 24, 2020
5.	Refresher	Science Academics	Apa College, Palani	June 24 - July 07, 2020
6.	FDP	Online FDP -"Demo and Hands on Training in PHP and MYSQL"	KMG College of Arts and Science, Gudiyattam	Apr. 27 - May 01, 2020
7.	FDP	Online FDP On " Latex "	V O Chidambaram College, Tuticorin	Apr. 24 -May 05, 2020
8.	FDP	Rare Earth-Doped Mn-Cu Ferrites.	Kristu Jayanti College (Autonomous) Bengaluru	May 04, 2020
9.	FDP	Higher Education	Geethanjali College of Engineering and Technology	May 20 - 24, 20
10.	FDP	Statistical Mechanics	PSGR Krishnammal College, Coimbatore,	May 25 - 29, 20
11.	FDP	Recent Trends N Materials	St. Joseph College of Engineering, Chennai,	May 29 & 30, 20
12.	FDP	Materials	Gokaraju Rangaraju Institute,	June 02 - 07, 2020.

S. No.	Programme	Theme	Organized by	Date
13.	PDP	Topological Carbon Materials	P.K.R. Arts College for Women, Erode	June 04, 20.
14.	FDP	Nanomaterials	Vimala Jyothi Engineering College, Trivandrum, Kerala	June 08 - 20, 2020.
15.	FDP	Advanced Materials	Bharat Institute	June 15 - 19, 2020
16.	Short Term Course	Crystal Growth	SSN Institutions, Chennai	May 14 - 23, 2020
17.	Refresher	Electronic CKT Analysis with Matlab	Geethanjali College, Hydreabad	Dec. 21 - Jan.01, 2022
18.	FDP	Smart Materials	St. Marys College, Tuticorin	Feb. 18 -23, 2023
19.	FDP	Nanomaterials	St. Marys College, Tuticorin	Nov. 23 -27, 2021
20.	FDP	Emotional Intelligence	Fatima College, Maddurai	Sep. 22 - 24, 2022
21.	FDP	Teaching Methods	Christophers College, Chennai	Apr. 11 -15, 2023

9. PAPER PRESENTED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
1.	National Conference on Advanced Materials	St. Marys College, Thoothukudi	Feb. 15 & 16, 2013	LAHC Crystals
2.	National Seminar on Materials and Nanomaterials	St. Xaviers College, Palayamkottai	Mar. 07 & 08, 2013	Structural Analysis of LAHC Crystals
3.	Nationals Seminar on Perspectives in Materials Science	Govt. Arts College for Women Pudukottai	Aug. 06 & 07, 2013	Structural Analysis of LAHB Crystals
4.	National Conference on Innovative Trends in Materials Science	Arignar Anna College, Aralvaimoli	Aug. 23 & 24, 2013	Optical Properties of LAHC Crystal
5.	National Seminar on New Materials Research and Nanotechnology	Government Arts College, Udthagamandalam	Sep. 25 -27, 2013	Optical Properties of LAHB Crystal
6.	National Seminar on Material Science in Research and Technology	Annai Velankanni College, Tholayavattam, Kanyakumari District	Oct. 04 - 05, 2013	Thermal Analysis of LAHC Crystal
7.	National Seminar on Recent Trends in Material Science	Sarah Tucker College, Tirunelveli	Oct. 18, 2013	Structural Analysis of LAPA Crystal
8.	National Seminar on Materials; Process and Applications of Novel Technologies	H.H.M.S.P.B.N.S.S. College for Women, Thiruvananthapuram, Kerala	Nov. 07 & 08, 2013	Structural Analysis of LACC Crystal
9.	National Conference on Recent Trends in Advanced	PSG College Of Technology, Coimbatore	Dec. 16 & 17, 2013	Structural Analysis of LAHF Crystal

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
	Materials			
10.	National Seminar on Recent Advances in Materials Science	Bharathidasan University, Tiruchirappalli	Feb. 03 & 04, 2014	Optical Analysis of Lapa Crystal
11.	National Seminar on Crystal Growth (with International Participation) in Association with Indian Association for Crystal Growth	SSN College Of Engineering, Kalavakkam	Feb. 24 - 26, 2014	NLO Analysis of LAHB Crystals
12.	National Seminar on Technologically Important Crystalline and Amorphous Solids	Kalasalingam University, Krishnankoil	Feb. 28 - Mar. 01, 2014	Nucleation Analysis of LAHB Crystals
13.	International Conference on Materials and Characterization Techniques	VIT University, Vellore	Mar. 10 - 12, 2014	NLO Analysis Of LAHB Crystals
14.	National Conference on Modern Trends in Science & Communication	Dr. Sivanthiditanar College of Engineering, Tiruchendur	May 07, 2014	Electrical Analysis of LAHB Crystals
15.	International Conference on Advances in New Materials	University of Madras, Chennai	June 20 & 21, 2014	Dielectric Analysis of LAHB Crystals
16.	International Conference on Perspectives in Vibrational Spectroscopy	Mar Ivanios College, Trivandrum	July 08 - 12, 2014	Structural Analysis of Laan Crystals
17.	National Conference on Optics, Photonics and Lasers	Arul Anandar College (Autonomous), Karumathur	July 17 & 18, 2014	Optical Analysis of Laan Crystals
18.	National Seminar on Recent Trends in Crystal Growth and Nano Materials	National College (Autonomous), Tiruchirappalli	Aug. 07 - 09, 2014	Thermal Analysis of Laan Crystals
19.	National Conference on Recent Advances in Materials	B.S. Abdur Rahman University, Vandalur, Chennai	Sep. 03 & 04, 2014	Z Scan Analysis of Laan Crystals
20.	National Conference on Advancement in Materials Science	Coimbatore Institute of Technology, Coimbatore	Sep. 26 & 27, 2014	Nucleation Analysis of Laan Crystals
21.	National on Advances in Materials Science	Manonmaniam Sundaranar University, Tirunelveli	Sep. 29 & 30, 2014	Structural Analysis of Laas Crystals
22.	International Conference on Crystal Growth and Biomolecular Crystallography	Sastra University, Thanjavur	Nov. 28 & 29, 2014	Optical Analysis of Laas Crystals
23.	National Conference on Recent Trends and Advances in Physics	M.D.T. Hindu College, Tirunelveli	Feb. 19 & 20, 2015	Mechanical Analysis of Laas Crystals
24.	State Level Seminar on Recent Trends in Material Science	Sadakathullah Appa College, Tirunelveli,	Jan. 11, 2016	Thermal Analysis of Laas Crystals
25.	International Conference on 'A New Horizon in Materials	Sarah Tucker College, Tirunelveli	Mar. 11, 2016	NLO Analysis of Laas Crystals
26.	National Conference on Preparation and Characterization of Crystalline Materials	Government Arts College, Tiruvannamalai	Aug. 04 & 05, 2016	Nucleation Analysis of Laas Crystals

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
27.	State Level Seminar on Material Science and Its Applications	Sri Vijay Vidyalaya College of Arts and Science, Dharmapuri	Sep. 24, 2016	Impedance Analysis of Laas Crystals
28.	National Conference on Advanced Materials	St. Joseph College, Trichy	Oct. 05, 2016	Optical Parameters of Laas Crystals
29.	International Conference on Advanced Material Technologies	Dadi Institute of Engineering & Technology, Visakapatnam, Andrapradesh	Dec. 27 & 28, 2016	Mechanical Analysis of Laan Crystals
30.	International Conference on Advances in Materials Science	Holy Cross College, Trichy	Jan. 06 & 07, 2017	Mechanical Analysis of Lans Crystals
31.	National Seminar on Advanced Materials	St. John's College, Tirunelveli	Feb. 02 & 03, 2017	Mechanical Analysis of Lata Crystals
32.	National Seminar on Quality Enhancement in the Contemporary Higher Education Scenario	Sadakathullah Appa College, Tirunelveli	Feb. 07 & 08, 2017	Nucleation Kinetics Analysis of Lann Crystals
33.	National Seminar on Recent Trends in Material Science	Sadakathullah Appa College, Tirunelveli	Mar. 06, 2017	Structural Analysis of Lann Crystals
34.	National Seminar on Crystal Growth and Applications	National College, Trichy	Mar. 07 & 08, 2017	Electrical Analysis of Lann Crystals
35.	International Seminar in Recent Materials	Sarah Tucker College, Tirunelveli	Sep. 07, 2017	Optical Analysis of Lann Crystals
36.	International Conference on Recent Advancements in Information Technology, Science & Engineering	A.P.C. Mahalaxmi College for Women, Thoothukudi	Dec. 14 & 15, 2017	NLO Analysis of Lann Crystals
37.	National Conference on Recent Developments in Effective Materials	Sarah Tucker College, Tirunelveli	Feb. 19, 2018	Structural Analysis of Lana Crystals
38.	National Seminar on Recent Trends in Material Science	Sadakathullah Appa College, Tirunelveli,	Mar. 09, 2018	Optical Analysis of Lana Crystals
39.	National Seminar on Crystal Growth	Aditanar College Of Arts & Science, Tiruchendur	Feb. 16, 2018	Optical Analysis of Lans Crystals
40.	International Conference on Multidisciplinary Approaches in Engineering, Management and Science	Sri. S. Ramasamy Naidu Memorial College, Sattur	Dec. 14, 2018	Structural Analysis of Lata Crystals
41.	International Conference on Recent Trends in Multidisciplinary Research	A.P.C. Mahalaxmi College, Thoothukudi	Dec. 20 & 21, 2018	Electrical Analysis of Lapa Crystals
42.	International Conference on Advanced Materials and their Applications	V.O Chodambaram College, Thoothukudi	Dec. 27, 2018	Electrical Analysis of Lacc Crystals
43.	National Seminar on Emerging Trends in Physics	Sadakathullah Appa College College, Tirunelveli	Jan. 10 & 11, 2019	NLO Analysis of Lahc Crystals
44.	International Conference on Nanoscience and Nanotechnology	SRM Institute of Science and Technology, Chennai	Jan. 28 – 30, 2019	NLO Activity Of L-Alanine Crystals

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
45.	International Conference on Advanced Materials	Sacret Heart College, Tirupattur	Feb. 12, 2019	NLO Analysis of Lapc Crystals
46.	Nation Seminar on Advanced Chemistry	St. Xaviers College, Palayamkottai	Mar. 08, 2019	Thermal Analysis of Lans Crystals
47.	International Conference on Advanced Materials	Aditanar College Of Arts and Science, Tiruchendur	Aug. 26, 2019	Electrical Analysis of Lapa Crystals
48.	National Seminar on Emerging Trends in Physics	Sadakathullah Appa College, Tirunelveli	Feb. 22, 2020	Electrical Analysis of Lans Crystals
49.	International Conference on "Advance Science in Engineering	A.P.C.Mahalaxmi College for Women, Thoothukudi	Mar. 24 & 25, 2022	Structural Analysis of Cuo Nps

10. PARTICIPATED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date
1.	Workshop on Nanotechnology	Thanthai Hans Rover College, Perambalur	Jan. 19, 2011
2.	State Level Seminar on Nanoscience	Thanthai Hans Rover College, Perambalur	Nov. 23, 2011
3.	National Conference on Advanced Materials	PSN College of Engineering and Technology	Jan. 23 - 25, 2013
4.	State Level Seminar on Physics of Atmosphere and Space Over Antartica	Adithanar College of Arts and Science, Tiruchendur	Mar. 01, 2013
5.	National Seminar on Emerging Trends in Chemistry	Sadakathullah Appa College, Tirunelveli	Jan. 06, 2016
6.	National Seminar on Nano Science and Nanotechnology	St. Ignatius College of Education, Palayamkottai	Oct. 14, 2017
7.	International Seminar on Api Score	Sadakathullah Appa College, Tirunelveli	July 21, 2017
8.	National Conference on History of Science	Jadavpur University, West Bengal	July 18, 2019
9.	Webinar on Crystallography	Er. Perumal Manimekalai College of Engineering	May 08, 2020
10.	Webinar on Assessment & Accreditation	Loganathan Narayana Samy Govt. College,	May 19, 2020
11.	Webinar on Spectroscopic Methods	Pioneer Kumarasamy College	May 22, 2020
12.	Webinar on Nanomaterials	G.T.N Arts College	May 14, 2020.
13.	Webinar on Advanced Materials	Vels Institute	May 21 - 23, 2020
14.	Webinar on Material Science	Sathyam Institute of Science and Technology	May 18 - 23, 2020
15.	Webinar on Electroanalytical Techniques	Saveetha Eng. College	May 27, 2020
16.	Webinar on Fuel Cells	Annai Velankani College	May 26, 2020
17.	Webinar on Nuclear Fission	VOC College, Thuthukudi	May 25, 2020
18.	Webinar on Shock Waves	Kumaraguru College	July 10, 2020

11. ARTICLES PUBLISHED IN JOURNALS/PROCEEDINGS/MAGAZINES/BOOKS

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month/Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
1.	International Journal of Advanced Scientific & Technical Research	Nucleation Kinetic and Other Studies of L-Alanine Alaninium Nitrate (Laan) Single Crystals	2013	3	3	162-171	2249-9954	RS
2.	Indian Journal of Applied Research	Xrd, Optical, Shg and Hardness Studies of L-Alanine Crystals Grown in Aqueous Solution of Hydrofluoric Acid	2013	3	11	446-447	2249-555X	AkiNik
3.	Advances in Optoelectronic Materials (Aom)	Metastable Zone Width, Nucleation Parameters and Other Studies Of L-Alanine Hydrogen Chloride (Lahc) Crystals Grown by Slow Cooling Technique	2013	1	4	67-73	1687563X, 16875648	HINDAWI
4.	International Journal of Science and Engineering Applications	Second-Order and Third-Order Nlo Studies of L-Alanine Crystals Grown in Aqueous Solution of Hydrofluoric Acid (Lahf)	2014	2	10	1-5	2319-7560	
5.	International Journal of Chemtech Research	Spectral, Second Harmonic, Third Harmonic and Thermal Analysis of Posphorous Acid Admixture L-Alanine Crystals (Pala)	2014	6	3	1578-1581	0974-4290	ACS
6.	International Journal of Innovative Research in Science and Engineering	Growth, Hardness Parameters, Laser Damage Threshold and Thermal Analysis of L-Alanine Crystals Grown in Aqueous Solution of Hydrofluoric Acid (Lahf)	2014	2	Special	612-615	2347-3207	
7.	International Journal of Chemtech. Research	Nucleation Kinetics, Growth, Nlo Studies, Hardness Parameters and Etching Analysis of Phosphoric Acid Added L-Alanine Single Crystals	2014	6	11	4702-4708	0974-4290	CAS

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month/Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		(Pla)						
8.	Optik - International Journal for Light and Electron	Nucleation Kinetics, Growth and Hardness Parameters of L-Alanine Alaninium Picrate (Laap) Single Crystals	2014	125		2531–2537.		ELSEVIER
9.	Optik - International Journal for Light and Electron	Second-Order and Third-Order Nlo Studies of L-Alanine Crystals Grown in Aqueous Solution of Perchloric Acid (Lapc)	2015	126		213-218		ELSEVIER
10.	Optoelectronics and Advanced Materials	Studies on Spectral, Dielectric and Nonlinear Optical Properties of L-Alanine Alaninium Picrate (Laap) Crystals	2015	9		7-8	1842-6573	National Institute of Optoelectronics
11.	International Journal of Current Science Research	Z - Scan Measurement and Impedance Analysis of L-Alanine Alaninium Nitrate Single Crystals (Laan)	2016	2	3	472-477	2454-5422.	
12.	IOSR Journal of Applied Physics	Influence of Ammonium Sulphate on L-Alanine Single Crystals (Laas) for Nlo Applications	2017			113-117	2278-4861	IOSR
13.	Material Science and Engineering	Effect of Nickel Sulphate on Growth, Structural, Optical, Mechanical and Thermal Properties of L-Alanine Single Crystals (Lans).	2017	225		012189		IOP
14.	Sadakath A Research Bulletin	Structural, Optical and Thermal Properties of Semi-Organic Nlo Material: Tetra Glyzine Sodium Fluoride (Tgsf).	2017	2	-	21-27	2347-7644	SAC
15.	International Journal of Science, Engineering & Management	Linear Optical Constants of Succinic Acid Single Crystals (Sa)	2017	2		44-46	2456 - 1304	
16.	International Journal of Trend in Research and Development,	Electrical Properties of Hydrofluoric Acid Admixtured L-Alanine	2018			49-50	2394-9333	

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month/Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		Single Crystals (Lahf).						
17.	International Journal of Trend in Research and Development	Green Synthesis of Cobalt Nanoparticle Using Mangifera Indica Medicinal Plant	2018			43-44	2394-9333	
18.	International Journal of Trend in Research and Development, Special	Morinda Citrifolia Leaf Extraxt Assisted Green Synthesis of Silver Nanoparticles: Study of Structural and Optical Properties.	2018			41-42	2394-9333	
19.	International Journal of Trend in Research and Development	Structural Observation of Silver Nanoparticle Using Seed Extract of Caesalpinia Bounducella.	2018			17-18		
20.	International Journal of Trend in Research and Development	Green Synthesis of Copper Oxide Nanoparticles Using Moringa Oleifera Leaf Extract				11-13		
21.	Journal of Emerging Technologies and Innovative Research,	Green Synthesis of Silver Nanoparticles Using Seed Extract of Moringa Oleifera Medicinal Plant.	2018	5	6	664-665	2349-5162	
22.	Journal of Emerging Technologies and Innovative Research	Preparation of Single Phase Bifeo3 Film Using Spin Coater and Their Characterization.	2018	5	7	202-206	2349-5162	
23.	International Journal of Research and Analytical Reviews	Effect of Piper Beetle Leaf Extract in the Solution of Cuso4-Structural Reduction Phenomena	2019	6	2	652-655	2348 – 1269	
24.	International Journal of Scientific Technology and Research	Effect of Medicinal Leaf Extract in Silver Nitrate – Size Reduction to Nano Scale	2019	8	9		2277-8616	
25.	International Journal of Scientific	Influence of Zinc on the Growth, Mechanical,	2019	8	11		2277-8616	

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
	Technology and Research	Thermal and Dielectric Properties of Ninhydrin Single Crystals for Non-Linear Optical Application						
26.	Journal of Inorganic and Organometallic Polymers and Materials	Enhanced Antifungal Activity of Pure and Iron-Doped ZnO Nanoparticles Prepared in the Absence of Reducing Agents	2019					SPRINGER
27.	Materials Today Proceedings	Synthesis of Bismuth Oxide Nanoflower Using Natural Honey	2020					ELSEVIER
28.	Materials Today Proceedings	Novel Synthesis of Undoped and Zinc Doped Iron Oxide Nanoparticles Using Apis Mellifera	2020					ELSEVIER
29.	Journal of Nano- and Electronic Physics	Green Synthesis of Copper Oxide Nanoparticles from Catharanthus Roseus Plant Leaf Extract and Its Investigation	2021	13	1		2077-6772	SPRINGER
30.	Micro & Nano Letters	Biogenic Synthesis of Copper Oxide Nanoparticles Using Leaf Extracts of Cissus Quadrangularis and Piper Beetle and Its Antibacterial Effects	2021					SPRINGER
31.	Indian Journal of Engineering & Materials Sciences	Structural, Mechanical, Thermal, Optical and Antifungal Properties of Pure and Nickel Doped Ninhydrin Non-Linear Single Crystals	2021	28		82-88		NISCAIR
32.	Indian Journal of Physics	Structural, Mechanical, Dielectric, Thermal, and Nonlinear Optical Properties of Zinc-Doped Ninhydrin Single Crystals.	2021					SPRINGER

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
33.	Strad Research	Green Synthesis of Cooper Oxide Nanoparticle Using Aqueous Leaf Extract of Calotropis Gigantea	2021	8	10		0039-2049	Novello & Co
34.	Digest Journal of Nanomaterials and Biostructures	Green Synthesis of CuO Nanoparticle Using Justicia Adhatoda Leaf Extract and It's Antibacterial and Thermal Asset	2021	3	16			SCOPUS
35.	Rasayan J. Che Scopus.	Morinda Citrifolia Leaf Extract Mediated Green Synthesis of Copper Oxide Nanoparticles and It's Potential and Antibacterial Studies	2021	14	2		0974-1496.	SCOPUS
36.	Advanced Material Letters	Antifungal Activity of Iron Gold & Cobalt Gold Codpoed ZnO Nanoparticles	2021	12	6		21061636	
37.	Materials Today: Proceedings	Enhancing Structural and Optical Properties of ZnO Nano Particles Induced by the Double Co-Doping of Iron and Cobalt	2022	49	7			ELSEVIER
38.	Wutan Huatan Jisuan Jishu	Impact of Transition Metals Doping on the Magnetic Properties of ZnO Nanoparticle	2022					RAPID
39.	Coatings	Photocatalytic and Biological Activity on ZnO Nanoparticles Using Honey	2021	11			1046	MDPI
40.	Water	Visible Light Photocatalyst and Antibacterial Activity of Bfo (Bismuth Ferrite) Nanoparticles from Honey	2022	11	14	1-15	1545	MDPI

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month/Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
41.	Water	Photocatalytic Dye Degradation and Bio-Insights of Honey-Produced A-Fe ₂ O ₃ Nanoparticles	2022	14	15	1-15	2073-4441	MDPI
42.	AIP Conference Proceedings	Preparation and Characterization of Copper Oxide Nanoparticle-Determination of Its Structural and Optical Properties	2023	2770	1	1-6	07003	AIP
43.	Bio Nano Science	Evaluation of Homogeneous NiO Particles on ZnO Heterojunction: Insights into Its Properties for Antifungal Applications	2024	14	3	3313-3319	2191-1630	SPRINGER
44.	Proceedings- New Materials Research and Nanotechnology	Structural, Spectral and Mechanical Studies of L-Alanine Crystals Grown in Phosphorous Acid Solution.	2013				978-93 - 81104 -33-0	
45.	Proceedings- Recent Trends in Material Science (TRIMS'13)	Solubility, Growth, Optical and Mechanical Properties of L-Alanine Crystals Grown in the Solution of Perchloric Acid (LAPA)	2013				-	
46.	Proceedings- Materials; Process And Application Of Novel Technologies (NMAT-2013)	Growth, Thermal, Dielectric, SHG and Hardness Parameters of L-Alanine Crystals Grown in Aqueous Solution of Perchloric Acid (LAPA)	2013				978-93 - 80609 -15-7	
47.	Proceedings- Technologically Important Crystalline Amorphous Solids	Growth, Structural, Optical, Thermal, Hardness and Second Harmonic Generation of L-Alanine Crystals Grown in Aqueous Solution of Cesium Chloride (LACC)	2014				978-81 - 92131 9-4-8	
48.	Proceedings- Optical, Photonics and Lasers	Growth, Optical and Mechanical Analysis of Ammonium Sulphate Admixture L-Alanine Single Crystals	2014				978-81 - 92189 5-0-6	

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
49.	Proceedings- Recent Advances in Materials	Growth and Optical Constants of LAT Single Crystal	2014				978-81 - 89843 -64-9	
50.	Proceedings- Advances in Material Science	Growth, Optical and Hardness Parameters of LAT Single Crystals	2014				978-93 8- 140-2160	

12. BOOKS PUBLISHED

S. No.	Book Name	Year	Publisher	ISBN
1.	Digital Communication	-	Scientific International Publishing House.	978-93-94002-67-8. 2022
2.	Medical Optics	-	Scientific International Publishing House	978-93-5625-091-8.

13. PATENTS/COPYRIGHT IF ANY

- ❖ Artificial Intelligence Based Video Surveillance System Using Open CV And Deep Learning. 07.01.2022. 202141061895 A.
- ❖ A Nanomaterial Composition Having Magnetic Properties. 11/02/2022. 202241006308 A.
- ❖ Nanomaterial Based Thermal Indicator. 11/03/2022. 202211010905 A.
- ❖ Optimization of Thermal Conductivity and Viscosity of Refrigerants. 25.03.2022. 202241012929 A.

14. Journal Reviewer

- Journal of Emerging Technologies and Innovative Research,
- International Journal of current science
- Journal of Applied Electrochemistry
- International Journal of Creative Research Thoughts
- International Journal of Engineering Research & Technology (IJERT).

15. MINOR PROJECTS COMPLETED

Magnetic and Electrical Properties of Metal Oxide Nanoparticles and Size Dependent Antimicrobial Activity. Sadakathullah Appa College, Tirunelveli. (Completed).

16. GUEST LECTURERS DELIVERED

1. Smartness of the Materials. St. Xavier's College of Education, 20.03.2019
2. Advanced Materials, Sarada College for Women, 22.09.2019
3. Trends in Material Science, St. Ignatius College of Education, Palayamkottai, 03.03.2021.
4. Recent Trends in Materials, Sadakathullah Appa College, Tirunelveli, 2021.
5. Research Paper Writing and Publications, National Level Online Workshop, Progrezz Academic Training & Research Institute, 15.02.2024.

17. TECHNICAL SEMINAR ORGANIZATION

Served as a Joint Organizing Secretary for National Seminar on "Emerging Trends in Physics", Sadakathullah Appa College, Tirunelveli, 10th & 11th of January 2019.

18. RECOGNITIONS

- Chairperson of Paper Presentations in International Conference on Recent Advancements in Information Technology, Science & Engineering, A.P.C. Mahalaxmi College For Women, Thoothukudi, Dec. 14 & 15, 2017.

- Chair Person of Paper Presentations in International Conference on Recent Trends in Multidisciplinary Research A.P.C. Mahalaxmi College, Thoothukudi, 20-20.12.2018.
- Subject Expert – SCOP, Deaf and Dum School, Palayamkottai Feb. 26, 2019.
- Chair Person of Paper Presentations in International Conference on Advanced Materials, Aditanar College of Arts and Science, Tiruchendur, 26.08.2019.
- INSA Young Historian of Science Award, Paper Presented on Historical Perspectives of NLO Crystals on 19.07.2019 At Jadavpur University, West Bengal in front of INSA Council.
- INSA Young Historian of Science Award, Paper Presented Historical Perspectives of Nano Materials on 16.09.2020 in front of INSA Council (Online).
- Judge for Photography Competition, 18.10.22, Department of Zoology, Fatima College, Madurai.
- Editorial Board Member- “International Journal of Energetic Materials” 21.12.2023.

19. RESEARCH POINTS

Google Scholar- as on 30.12.2024

Citations : 219 H-Index : 7 I- 10 Index : 6

Research gate- as on 30.12.2024

Citations : 216 H-Index : 4