



DR. R. NIRANJANA DEVI

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	N.P.R Arts and Science College, Natham	2008
2.	PG	Physics	MK University, Madurai	2011
3.	M.Phil.	Physics	The American College, Madurai	2012
4.	Ph.D.	Physics	The American College, Madurai	2017
5.	Diploma	D. T. Ed	DIET, Oddanchatram	2005
6.	SET/NET	SET	Mother Teresa Women's University, Kodaikanal	2016
7.	Other	B. Ed	Government College of Education, Pudukkottai	2009

2. TEACHING EXPERIENCE / OTHER EXPERIENCE

S. No.	Institution / Organization	From - To
1.	Assistant Professor, Department of Physics, Fatima College, Madurai (In Leave Vacancies)	June 2017-Feb 2018
2.	Assistant Professor in Physics (Part-Time), Department of Maths (SF), Fatima College, Madurai	Dec 2018 - April 2019
3.	Assistant Professor in Physics, Department of Physics (SF), Fatima College, Madurai	June 2019 - Nov 2024
4.	Assistant Professor in Physics, Department of Physics, NPR College of Engineering and Technology, Natham	Jan 2025 - May 2025
5.	Assistant Professor in Physics, Department of Physics (AIDED), Fatima College, Madurai	June 2025 – Till Date

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

S. No.	Name of the Position	From - To
1.	Member, Research Advisory Committee	July 2017-August 2018
2.	Member, Extension Activities	July 2017-August 2018
3.	Member, Quality Circle	June 2019- June 2021
4.	Member, Fatima Cultural Centre	July 2021-July 2022
5.	Member, Mentoring Facilitation Committee	July 2021-July 2022
6.	Member, Women Development Cell	July 2021-July 2023
7.	Member, Time Table & Class Room Allotment	July 2021-July 2024
8.	Member, Research Development Cell	June 2025-Till Date
9.	Member, Intellectual Property Rights Cell	June 2025-Till Date

4. ACHIEVEMENTS

S. No.	Name of the Award	Award Received for	Sponsors / Source	Date
1.	Best Outgoing Student Award	Academics, Extracurricular and Overall Achievement	NPR Arts and Science College, Natham	2008
2.	Gold Medalist in B. Sc Degree Course	Proficiency in Physics in B. Sc Degree Course	Madurai Kamaraj University, Madurai	2009
3.	Best Oral Paper Presenter Award	Oral Paper Presentation	Rev. Jacob Memorial Christian College, Ambilikai	2007
4.	Best Oral Paper Presenter Award	Oral Paper Presentation	Yadava College, Madurai	2007
5.	S.N. Bose Award	Proficiency in Physics in M.Phil	The American College, Madurai	2012
6.	Best Paper Presenter Award	Poster Presentation	Nesamony Memorial Christian College, Marthandam	2014
7.	Best Oral Paper Presenter	Oral Paper Presentation	Mother Teresa Women's University, Kodaikanal	2016
8.	DST Bursary Award	Presenting Paper in International Union of Crystallography Congress 2017	International Union of Crystallography	2017
9.	Best Oral Paper Presenter Award	Oral Paper Presentation	Kalasalingam Academy of Research and Education, Krishnankoil	2019
10.	Best Oral Paper Presenter Award	Oral Paper Presentation	Arulanadar College, Karumathur	2020
11.	Best Audio-Visual Presentation Award	Oral Paper Presentation	Muthurangam Govt. College, Vellore	2020
12.	Best Oral Paper Presentation Award	Oral Paper Presentation	Kamaraj College, Thoothukudi	2021
13.	Best Oral Paper Presentation Award	Oral Paper Presentation	Rathinam College of Arts and Science	2021
14.	Best Young Scientist	Research	Tamil Nadu Association for Intellectuals and Faculty & Grabs Educational Trust	2021

15.	Best Woman Scientist Award	Research	Novel Research Academy, Puducherry	2022
16.	Best Performance Award	Teaching and Research	Fatima College, Madurai	2022
17.	Award Of Excellence in Research	Research	International Journal of Modern Trends in Science and Technology, Govt. of India	2022
18.	Best Researcher Award	Research	Science Father Research Foundation	2023
19.	First Prize in Chess	Sports (Staff Premier League)	NPR College of Engineering and Technology	2025
20.	First Prize in Carrom	Sports (Staff Premier League)	NPR College of Engineering and Technology	2025

5. MEMBERSHIP IN PROFESSIONAL / OTHER BODIES / COMMITTEES

S. No.	Name of the Position	Name of the Body	Name of the Institution	Duration
1.	Member	-	Indian Academic Researchers Association	2025-Till Date
2.	Member	-	Tamilnadu Association For Intellectuals And Faculty	2018-Till Date

6. AREAS OF SPECIALIZATION

❖ CRYSTALLOGRAPHY

❖ CHARGE DENSITY ANALYSIS OF ORGANIC AND PHARMACEUTICALLY IMPORTANT MOLECULES

❖ COMPUTATIONAL AND THEORETICAL PHYSICS AND CHEMISTRY

❖ STRUCTURAL, ELECTRONIC AND REACTIVITY PROPERTIES OF ORGANIC AND BIO-MOLECULES

❖ DOCKING, DYNAMICS AND SIMULATION STUDIES

7. FELLOWSHIP RECEIVED

❖ Project Fellow in UGC Major Research Project (2012-2015)

8. ORIENTATION/REFRESHER/TRAINING PROGRAMMES/FDP ATTENDED

S. No.	Programme	Theme	Organized by	Date
1.	Faculty Induction Programme	Teaching and Research	IQAC, Fatima College	June 13 -15, 2019
2.	One-week Faculty Development Program (online)	R- Programming	Department of Computer Science & Engineering, SKN Sinhgad College of Engineering,	April 30 - May 5, 2020.

S. No.	Programme	Theme	Organized by	Date
			Pandharpur, Maharashtra in association with Spoken Tutorial IIT Bombay, Mumbai	
3.	Faculty Development Program(online)	Remarkable Structural, Magnetic and Microwave Adsorption Properties of Rare Earth-Doped Mn-Cu Ferrites. & In-situ characterization of Materials at Elevated Temperatures	Department of Physics, Kristu Jayanti College (Autonomous) Bengaluru	May 04, 2020
4.	Faculty Development Program(online)	Outcome-Based Education	Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology & School of Computing, Muscut college	May 07 - 09, 2020
5.	Faculty Development Program(online)	Role of Chemistry in COVID-19	Department of Chemistry, School of Basic Sciences, Vels Institute of Science, Technology and Advanced Studies	May 13,2020.
6.	Faculty Development Program(online)	Nanomaterials for Energy Harvesting and Biomedical Applications	Nanomaterials for Photovoltaic and Biomaterials Laboratory (NPBL), Department of Humanities and Basic Sciences Godavari Institute of Engineering and Technology (AUTONOMOUS), Rajamahendravaram, Andhra Pradesh	May 18 - 22, 2020
7.	One-week Faculty Development Program(online)	Moodle Learning Management System	Department of Management Studies, JD College of Engineering & Management, Nagpur	April 30 - May 05, 2020.
8.	Online National Level Faculty Development Programme (online)	Radiation & Environmental Radioactivity	Department of Physics, CSI College of Engineering, Ketti	June03 - 05, 2020
9.	Faculty Development Program(online)	Outstrip of Catch22	Annai College of Arts and Science	May 25 - 31, 2020
10.	Faculty Development Program(online)	Recent trends in Material Frontiers	St. Joseph's College of Engineering, Chennai	May 29 & 30, 2020
11.	Faculty Development Program(online)	Higher Education During COVID Times and After: Challenges and Opportunities	Internal Quality Assurance Cell, Bishop Moore College, Mavelikara, Kerala	May23 - 29, 2020
12.	Professional development program(online)	Advancements in Topological Carbon Materials	Department of Physics, P.K.R. Arts college for women	June04, 2020
13.	Faculty Development Program(online)	Travel for Scientific Indian Minds	Department of Physics, Saurashtra University, Rajkot, Department of Science & Technology, Government of Gujarat (DST), Gujarat Council on Science & Technology (GUJCOST) & Essencetech	May 21 - 29, 2020
14.	Faculty Development Program(online)	Web Skills for Online Classes	Department of Commerce, Bishop Moore College, Mavelikara	May 30, 2020
15.	Faculty Development	Materials: Recent Trends &	Gokaraju Rangaraju Institute of	June 02 - 07, 2020

S. No.	Programme	Theme	Organized by	Date
	Program(online)	Engineering Applications	Engineering and Technology	
16.	Faculty Development Program(online)	Recent Trends in Physics	Holy cross college, Nagercoil	June 03 - 06,2020
17.	Faculty Development Program(online)	Funding Schemes and Patenting Scientific Innovations	PG and Research Department of Physics, Government Arts College, Trichy	June 04, 2020
18.	Faculty Development Program(online)	Scilab	Department of Civil Engineering, J D College of Engineering & Management in association with Spoken Tutorial, IIT Bombay.	June 08 – 13, 2020
19.	Faculty Development Program(online)	Nano Technology Innovations in Energy and Biomedicine	Department of Physics at Kamaraj College of Engineering & Technology, Madurai District	June 08 - 10, 2020
20.	Faculty Development Program(online)	Frontiers in Scientific Research & Technology	Department of Physics & Chemistry St. Joseph's Institute of Technology	June 11 - 13, 2020
21.	Faculty Development Program(online)	Five Days International FDP on Nanomaterials	Department of Physics, Thoothukudi	Nov. 23 - 27, 2021
22.	Faculty Development Program(online)	AI-driven breakthroughs in Drug Development: Innovations and Diagnostics, Biomarker Discovery and Sustainability	Scinicorn Labs Private Limited	Sep. 30 – Oct. 04, 2024
23.	Faculty Development Program(online)	Advancement of Material Science	KPR Institute of Technology, Coimbatore	Jan. 20 - 24, 2025
24.	Faculty Development Program(online)	Engineered Materials for Multi-disciplinary Applications	NPR College of Engineering and Technology, Natham	Jan. 20 - 25, 2025
25.	Faculty Development Program(online)	NLP with CHAT GPT	Sri Ram Institute of Technology, Chennai	Mar. 17 - 19, 2025
26.	Faculty Development Program(online)	Empowering Faculty with Intellectual Property Rights and AI Tools for Innovation and Excellence	Global Research and Training Center	June 23 - 7, 2025
27.	Summer School	2 nd Indian Summer School On Crystal Growth (ISSCG-2022)	SSN Research Centre, SSN college of Engineering, Tamil Nadu	May 16 - 21, 2022
28.	Summer School	Indian Summer School on Crystal Growth (ISSCG-2020),	SSN Research Centre, SSN college of Engineering, Tamil Nadu	May14 -23, 2020

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

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
1.	International Conference on Biologically Active Molecules (Icbam)	Saraswati Narayanan College, Perungudi, Madurai.	Mar. 07, 2025	Exploring the Topological, Reactivity, Electrostatic Properties and Docking Studies of N-[(Pyridin-2-Yl) Methyl] Thiophene-2-Carboxamide

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
	2025			
2.	International Conference and Ideation Fest 2024	St. Joseph's College for Women, Alappuzha, Kerala	Dec. 13 - 16, 2024	An Investigation on Topological, Reactivity and Electrostatic Properties of the Molecule Zurzuva, a Potential Drug for Ppd
3.	International Virtual Conference on Materials Research	Easwari Engineering College, Chennai	Sep. 15 -16, 2022	An Investigation of Topological, Reactivity and Electrostatic Properties of the Molecule N-(2-Carboxyethyl)-N-(2-Carbomethoxypropyl)Benzylamine
4.	Chemical Sciences or Futuristic Advancement	Easwari Engineering College, Chennai	Sep. 01 & 02, 2022	A Study of Topological, Reactivity and Electrostatic Properties of the Molecule Cefixime Trihydrate
5.	Two Days International Virtual Conference on Novel Nanomaterials for Innovative Research Icnir-2021	Rathinam College of Arts and Science, Coimbatore	Apr. 29 & 30, 2021.	A Theoretical Topological, Reactivity and Electrostatic Properties Study of Dacomitinib
6.	National E-Conference on Advanced Research in Material Sciences	Kamaraj College, Thoothukudi	Feb. 22 & 23, 2021	A Theoretical Investigation of Topological and Electrostatic Properties of the Anti-Viral Drug Peramivir
7.	International E-Conference on Recent Trends in Nanotechnology and Material Sciences	St. Joseph's College for Women, Alappuzha, Kerala, India	Jan. 18 - 20, 2021	Theoretical Investigation of Topological, Reactivity and Electrostatic Properties of Ebselen Oxide
8.	India International Science Festival 2020	Ministry of Science and Technology & Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt of India	Dec. 22 - 24, 2020	An Investigation of Topological, Reactivity and Electrostatics Properties of Antioxidant Drug 2-Phenyl-1, 2-Benzoselenazol-3-One
9.	International Web Conference on Recent Trends in Scientific Research	Dr. Ambedkar Government Arts College, Chennai & TNSCST, DST, Govt. of India	Aug. 03 & 04, 2020	An Investigation on Reactivity and Interaction of Desethylchloroquine with Sars-Cov-2.
10.	Web Conference on Synthesis and Characterization of Novel Materials	Muthurangam Govt. Arts College, Vellore	July06 & 07, 2020	An Investigation on Topological, Reactivity and Interaction of the Potent Antiviral Drug Zanamivir With Sars-Cov-2
11.	Global Conference on Sustainability for Growth and Development 2020	Nilai University, Malaysia & Fatima College, India	July 18, 2020	An Investigation on Interaction of Hydrochloroquine with Sars-Cov-2- A Structural, Electronic, Topological and Reactivity Properties View
12.	Virtual International Conference on Global Research Trends in Biotechnology-2020(Vicgrtb)	St. Joseph's College of Engineering, Chennai	June 15 - 18, 2020	An Investigation on Electronic, Topological and Reactivity of the Potent Antiviral Drug Eidd-2801.
13.	International Inference on Advanced Materials (Icam-2020)	Arul Anandar College, Karumattur	Feb. 11 & 12, 2020	A Study of Electronic, Topological and Reactivity Properties of Anti-Hypertensive Drug Hydroflumethiazide.
14.	5 th National Seminar	Kalasalingam Academy of	Apr. 05 & 06, 2019	A Theoretical Study of Electronic and Reactivity Properties of Anti-Hypertension

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
	on Technologically Important Crystalline and Amorphous Solids (Ticas-2019)	Research and Education, Krishnankoil		Drug Hydrochlorothiazide
15.	4 th National Seminar on Technologically Important Crystalline and Amorphous Solids	Kalasalingam Academy of Research and Education, Krishnankoil	March 2018	Synthesis and Characterization of Aceclofenac Co-Crystals
16.	24 th Congress and General Assembly of the International Union of Crystallography	International Union of Crystallography	Aug. 21 - 28, 2017	Investigation of Topological and Electrostatic Properties of Anti-Inflammatory Drug Aceclofenac
17.	21 st National Seminar on Crystal Growth	National College, Trichy	Mar. 06 - 08, 2017	A Study on Structure, Inter Molecular Interactions, Topological and Electrostatic Properties of the Metformin Chloride
18.	International Conference in Recent Trends in Materials Science and Applications (Rtmsa-2017)	Sri Meenakshi Govt. Arts College for Women, Madurai	Jan. 06, 2017.	Structure, Electronic Properties, Population Analysis and Chemical Reactivity Studies of Meloxicam using Dft Approach
19.	International Conference on Material Processing and Application (Icmpa-2016),	VIT University, Vellore	April 2017	An Analysis of Structural, Electronic and Reactivity Properties of Metformin Chloride using Xrd and Dft Approach
20.	International Seminar on Material Science and Application (Ismsa-2016)	Mother Teresa Women's University, Kodaikanal	2016	An Investigation on Structural, Electronic and Reactivity Properties of Aceclofenac using Dft Approach
21.	National Seminar on Nuclear Energy for Future Generations	Kamaraj College of Engineering and Technology, Virudhunagar	Feb. 26, 2016	Investigation on Molecular Structure, Vibrational Spectroscopic, Reactivity Descriptors and Site Selectivity for 1-Deoxy-1-Mannitol using Density Functional Theory Approach,
22.	National Conference on Advanced Materials Science – 2015	Jerusalem College of Engineering, Chennai	2015	X-Ray Analysis of the Charge Density Distribution in Gaf3
23.	National Conference on Advanced Materials Science – 2015	Jerusalem College of Engineering, Chennai	2015	Investigation on Reactivity Descriptors of 2,5-Lutidinium Bromanilate using Dft Approach
24.	National Conference on Advanced Materials Science – 2015	Jerusalem College of Engineering, Chennai	2015	Molecular Structure, Population Analysis, Vibrational Spectroscopic and Chemical Reactivity Studies of Nicotinothydrazide using Dft Approach
25.	National Symposium on X-Ray Diffraction and Recent Advances in Crystallography-2015	Periyar University, Salem	2015	Topological and Electron Density Analysis and Electrostatic Properties of N-(Phenylsulfonyl)Acetamide: An Experimental and Theoretical Study
26.	National Seminar on Recent Trends in	Nesamony Memorial Christian College,	December 2014	Molecular Structure, Vibrational Spectroscopic and Site Selectivity Studies

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
	Quantum Chemistry-2014	Marthandam		in 5-Amino-3-Methyl-1,2-Oxazole-4-Carbonitrile using Dft Technique.
27.	National Seminar on Recent Trends in Quantum Chemistry-2014	Nesamony Memorial Christian College, Marthandam	December 2014	Elucidation of Reactivity Descriptors for 2-Mercaptobenzoic Acid using Density Functional Theory Approach
28.	Theoretical Chemistry Symposium- 2014	National Chemical Laboratory, Pune	2014	Charge Derived Properties and Site Selectivity Studies in 5-Amino-2-Methyl Benzene Sulfonamide using Xrd and Dft Techniques
29.	National Seminar on Technologically Important Crystalline and Amorphous Solids	Kalasalingam University, Krishnan Koil	February - 2014	Structural and Electronic Properties of Phenyl Acetic Acid using Density Functional Theory
30.	III National Conference on Advanced Materials	PSN College of Engineering and Technology, Tirunelveli,	January, 2013	Analysis of Charge Density Distribution in A Pharmaceutical Drug: Dapsone

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

S. No.	Programme & Theme	Organized by	Date
1.	Introduction To Latex: A Powerful Tools for Scientific Writing	-	Mar. 04, 2025
2.	The Art of Writing Research Papers	-	Apr. 29, 2020
3.	Opportunities for Engineers and Expectations from Industry	-	May 02, 2020
4.	Major Challenges in Auto Component Industries Post Covid 19	-	May 07, 2020
5.	Principle and Applications of Electronic Spectroscopy	-	May 07, 2020
6.	Conceptual and Applied Physics	-	May 05 - 08, 2020
7.	Opportunities for Startups in Current Situation	-	May 08, 2020
8.	Crystallography and Its Application	-	May 08, 2020
9.	Essential Information for Educated Community on Prophylaxis for Covid-19 High Risk	-	May 09, 2020
10.	How to Protect Ourselves from Infectious Diseases?	-	May 11, 2020
11.	How the Teachers Should Be Ready to Handle Post Pandemic Challenges	-	May 12, 2020
12.	Electrochemical Workstations Techniques Energy on Storage Applications	-	May 14, 2020
13.	Micro & Nanotechnology and Its Applications	-	May 14, 2020
14.	Knowledge Gained Through the Challenging Exercise of NAAC: Success Story	-	May 15, 2020
15.	Functional Novel Materials for Electrochemical Sensors and Energy Storage Devices	-	May 15, 2020

S. No.	Programme & Theme	Organized by	Date
16.	American College Chemistry Webinar Series-I	-	May 15 & 16, 2020
17.	Computer Vision Overview	-	May 16, 2020
18.	Micro, Nano and Atomic Scale Approaches in Electronic Applications	-	May 21, 2020
19.	Webinar Series on Advanced Materials: Webinar Series – I	-	May 21 - 23, 2020
20.	Energy, Energy Everywhere, How to Harness It?	-	May 21, 2020
21.	Secrets of Lateral Flow Immunoassay Analysis (Rapid Test Kit) for Coronavirus Detection: Role of TPNT to Fight Against Covid-19	-	May 21, 2020
22.	An Insight into NAAC – Raf	-	May 22, 2020
23.	Electroanalytical Techniques for Water Splitting: Dos and Don'ts	-	May 27, 2020
24.	Challenges and Achievements of Women in Science	-	Mar. 08, 2021
25.	Indian Summer School on Crystal Growth (Isscg-2020)	SSN Research Centre, SSN Institution, Chennai	May 14 - 23, 2020
26.	Computer Aided Drug Design Workshop	Athmic Biotech Solutions, Kalliyoor, Trivandrum	Aug. 11 & 12, 2018

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.	Physica B: Condensed Matter	X-Ray Derived Experimental Charge Density Distribution in Gaf3 and Vf3 Solid Systems	2016	496	-	74-81	0921-4526	Elsevier
2.	IUCR Data, Data Reports	3-Methylpyridinium 4-Nitrobenzoate-4-Nitrobenzoic Acid (1/1)	2016	1	P_4	-	2414-3146	IUCR
3.	IUCR Data, Data Reports	2-Amino-3-Methylpyridinium 4-Methoxybenzoate	2016	1	P_4	-	2414-3146	IUCR
4.	IUCR Data, Data Reports	2-Amino-3-Methylpyridinium 3,4-Dimethoxybenzoate	2016	1	P_4	-	2414-3146	IUCR
5.	International Journal of Latest Research in Engineering and Technology	An Investigation on Structural, Electronic and Reactivity Properties of Aceclofenac using Dft	2016	-	-	-	2454-5031	Kca

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		Approach						
6.	Mechanics, Material Science and Engn	An Analysis of Structural, Electronic and Reactivity Properties of Metformin Chloride using Xrd and Dft Approach	2017	9	-	-	2412-5954	Magnolithe Gmbh
7.	Chinese Journal of Chemical Physics	High Resolution Synchrotron Diffraction Study on Charge Density Distribution of Ampicillin Trihydrate: A Correlation Between Dft and Multipole Models	2017	30	1	-	1674-0068	Chinese Physical Society
8.	Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials	Charge Density Analysis of Metformin Chloride, A Biguanide, Anti-Hyperglycemic Agent	2017	B73	-	10-22	2052-5206	IUCR
9.	Journal of Molecular Modeling	Testing Ability of Rhodanine and 2, 4-Thiazolidinedione to Interact with the Human Pancreatic Alpha-Amylase: Electron-Density Descriptors Complement Molecular Docking, Qm and Qm/Mm Dynamics Calculations.	2017	23	252	-	1610-2940	Springer
10.	Journal of Rare Earths	Experimental Charge Density Distribution and Its Correlation to Structural and Optical Properties of Sm ³⁺ Doped Nd ₂ O ₃ Nanophosphors	2017	35	-	1102-1114	1002-0721	Elseiver
11.	Canadian Journal of Physics	Vibrational Studies, Quantum Chemical Calculations, and Molecular Modeling of Ferrous Fumarate.	2017	-	-	1-9	1208-6045	Canadian Science Publishing

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
12.	Croat. Chem. Acta	Experimental Charge Density Analysis of the Anti-Inflammatory Drug Meloxicam [Sodium 4-Hydroxy-2-Methyl-N-(5-Methyl-1,3-Thiazol-2-Yl)-1,1-Dioxo-1 λ ⁶ ,2-Benzothiazine-3-Carboxamide Monohydrate]	2018	91	2	-	0011-1643	Croatian Chemical Society
13.	Journal of Molecular Structure	Topological and Electrostatic Properties of Diclofenac Molecule as a Non-Steroidal Anti-Inflammatory Drug: An Experimental and Theoretical Study	2019	1196	-	42-53	0022-2860	Elsevier
14.	Journal of Molecular Structure	Aceclofenac and Interactions Analysis in the Crystal and Cox Protein Active Site	2020	1205	-	127600	0022-2860	Elsevier
15.	Chemical Papers	Experimental Validation of Bifurcated Hydrogen Bond of 2,5-Lutidinium Bromanilate and Its Charge Density Distribution	2020	74	-	2689-2699	-	Springer
16.	Journal of Molecular Modelling	A Theoretical Study of Chemical Bonding and Topological and Electrostatic Properties of the Anti-Leprosy Drug Dapsone	2020	26	-	138	1610-2940	Springer
17.	Journal of Molecular Liquids	Evaluation of Electronic and Biological Interactions between N-[4-(Ethylsulfamoyl) Phenyl]Acetamide and Some Polar Liquids (Iefpcm Solvation Model)	2021	340	-	117271	0167-7322	Elsevier

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		with Fukui Function and Molecular Docking Analysis						
18.	Journal of Molecular Liquids	Quantum Computational Studies on Optimization, Donor-Acceptor Analysis and Solvent Effect on Reactive Sites, Global Descriptors, Non-Linear Optical Parameters of Methyl N-Boc-Piperidine 3-Carboxylate	2021	343	-	117608	0167-7322	Elsevier
19.	Analytical Chemistry Letters	Molecular Docking, Structural Examination, Reactive Sites Identification (Homo, LUMO, MEP) of 6-Phenylpteridine 2,4,7-Triamine: Potential Bacterial Inhibitor	2021	-	-	-	2230-7532	Taylor And Francis
20.	Journal of Molecular Structure	Spectroscopic, Quantum Mechanical, Electronic Excitation Properties (Ethanol Solvent), DFT Investigations and Molecular Docking Analysis of an Anti-Cancer Drug Bendamustine	2022	1253	5	132211	0022-2860	Elsevier
21.	Journal of Environmental Biology	Evaluation of Diflunisal as an Inhibitor of Human Serum Albumin By Molecular Docking and DFT Calculations	2021	-	-	-	2548704	Triveni Enterprises
22.	Journal of Molecular Liquids	Theoretical Spectroscopic Electronic Elucidation with Different Solvents (IEPCM Model), Biological Assessment and Molecular Docking Studies on Moroxydine-Antiviral	2022	355	-	118946	0167-7322	Elsevier

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		Drug Agent						
23.	Journal of Molecular Structure	Experimental Spectra, Electronic Properties (Liquid and Gaseous Phases) and Activity Against Sars-Cov-2 Main Protease of Fluphenazine Dihydrochloride: Dft and Md Simulations	2022	1267	-	133633	0022-2860	Elsevier
24.	Journal of the Indian Chemical Society	Vibrational Energies, Bonding Nature, Electronic Properties, Spectroscopic Investigations and Analysis of 3-Bromo-4-Chlorobenzophenone	2022	99	8	100735	194522	Royal Society of Chemistry
25.	Journal of the Indian Chemical Society	Electronic, Intermolecular, and Quantum Computational Investigations, Molecular Docking, and Simulation Studies of the Potent Antiviral Drug Eidd-2801	2023	100	7-8	100953	194522	Royal Society of Chemistry
26.	Journal of the Indian Chemical Society	Experimental Spectral Investigations for Structural, Electronic, Topological Properties and Molecular Docking Studies of 2-Cyclohexylidene Hydrazine Carboxamide	2023	100	5	100902	194522	Royal Society of Chemistry
27.	Book on Drug Molecules: A Charge Density Perspective	Drug Molecules: A Charge Density Perspective	2023	-	-	-	9798890027436	Notion Press
28.	Proceedings: International Conference on Biologically Active Molecules (Icbam) 2025	Exploring The Topological, Reactivity, Electrostatic Properties and Docking Studies of N-[(Pyridin-2-Yl)	2025	-	-	-	-	Saraswati Narayanan College, Perungudi, Madurai.

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		Methyl] Thiophene-2-Carboxamide						
29.	Proceedings: International Conference and Ideation Fest 2024	An Investigation on Topological, Reactivity and Electrostatic Properties of the Molecule Zurzuva, A Potential	2024	-	-	-	-	St. Joseph's College for Women, Alappuzha, Kerala

12. CHAPTERS PUBLISHED IN BOOKS

S. No.	Book Name	Title of the Chapter	Year	Page No.	ISBN	Publisher
1.	Journal of Research in Science	Elucidation of Reactivity Descriptors for 2-Mercaptobenzoic Acid using Density Functional Theory Approach	2014	25-30	-	Nesamony Memorial Christian College, Marthandam
2.	Journal of Research in Science	Molecular Structure, Vibrational Spectroscopic and Site Selectivity Studies in 5-Amino-3-Methyl-1,2-Oxazole-4-Carbonitrile using DFT Technique.	2014	35-39	-	Nesamony Memorial Christian College, Marthandam
3.	IJLRET	An Investigation on Structural, Electronic and Reactivity Properties of Aceclofenac using DFT Approach	2016	-	2454-5031	Mother Teresa Women's University, Kodaikanal
4.	Advanced Materials Science	X-Ray Analysis of the Charge Density Distribution in Gaf3	2015	39-44	978-81-89843-73-1	Jerusalem College of Engineering, Chennai.
5.	Advanced Materials Science	Investigation on Reactivity Descriptors of 2,5-Lutidinium Bromanilate using DFT Approach	2015	33-38	978-81-89843-73-1	Jerusalem College of Engineering, Chennai.
6.	Advanced Materials Science	Molecular Structure, Population Analysis, Vibrational Spectroscopic and Chemical Reactivity Studies of Nicotinothiazide using DFT Approach	2015	26-32	978-81-89843-73-1	Jerusalem College of Engineering, Chennai.
7.	Web Conference Proceedings Nwscnm-2 K20	An Investigation on Topological, Reactivity and Interaction of the Potential Antiviral Drug Zanamivir with Sars Cov-2	2020	61-64	9789389631586	Muthurangam Govt. Arts College, Vellore
8.	Crystal Growth and	A Theoretical	2021	57-64	978-	Kolkata Press

S. No.	Book Name	Title of the Chapter	Year	Page No.	ISBN	Publisher
	Characterization	Investigation of Bumetanide using Charge Density and Topological Properties			8195593385	

13. ANY OTHER

ADDITIONAL CERTIFICATE COURSES

S. No.	DEGREE / DIPLOMA / CERTIFICATE	NAME OF THE INSTITUTION	YEAR OF PASSING
1.	Iron Lady Leadership Program	IRLC, Mumbai	April 2023
2.	Be 10x AI Tool Workshop	Be10x, Chennai	April 2024
3.	NPTEL Course - Elements on Modern Physics - SWAYAM (Elite-Topper)	IIT, Guwahati	May 2025

GUEST LECTURE DELIVERED

- Delivered Online Guest Lecture on Innovation of Crystallography On 28.11.2020 At Annai Fathima College of Arts and Science, Thirumangalam, Madurai
- Delivered Online Guest Lecture on Recent Trends in Crystallography On 28.09.2021 At Annai Fathima College of Arts and Science, Thirumangalam, Madurai

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