

CURRICULUM VITAE

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EDUCATIONAL PROFILE

B.Sc Chemistry, Pioneer Kumaraswamy College, Nagercoil-629 003

MSc Organic Chemistry, Annamalai University, Annamalainagar- 608 002

Ph.D. Chemistry, Annamalai University, Annamalainagar- 608 002

Postdoctoral Fellow, Nanosciences Group, CEMES, Toulouse, France.

RESEARCH AREAS

- ✓ Organic Synthesis
- ✓ Organic Electronics

TEACHING EXPERIENCE: 29 Years

- ❖ Professor: 11 Years
- ❖ Lecturer/Sr. Lecturer/Reader/Associate Professor
Since 21st March, 1996

HONORS/AWARDS

- Fellow of Royal Society of Chemistry (FRSC)
- Fellow of Indian Chemical Society
- Fellow of Academy of Sciences Chennai
- Awarded **Silver medal - Indian Association of Solid-state Chemists and Allied Scientists (2011)**, New Delhi.
- Guest researcher, **International Center for Materials Nanoarchitectonics (MANA)**, NIMS, Tsukuba, Japan (2010 & 2011).
- **BOYSCAST Fellow**, awarded by the Ministry of Science & Technology, Govt. of India.
- **Young Scientist Fellowship**, Tamil Nadu State Council for Science & Technology, Chennai, worked at RGCB, Trivandrum, 1999.
- **CSIR Research Fellowship**.

MEMBERSHIP IN THE PROFESSIONAL BODIES

1. American Chemical Society
2. Royal Society of Chemistry
3. Indian Chemical Society
4. Life member of CRSI
5. Life member of the Indian Peptide Society
6. Life member of the Indian Solidstate Association
7. Fellow of the Society of Environmental Science

EMR RESEARCH PROJECTS

Rs. 161.3 Lakhs (from ANRF, DST, CSIR, UGC, and Cavinkare Ltd)
Co-PI, ANRF- PURSE (2025-2029)
CUTN-PI, ANRF-PAIR project with IIT Madras (2025-2026)

RESEARCH GUIDANCE

Research Guidance	Guided	Guiding
Ph.D. Degree	16	8
Postdoctoral Students	03	-
M.Phil. Degree	22	-
M.Sc	46	5

ACADEMIC | ADMINISTRATIVE POSITIONS

- DEAN- Academics, CUTN Since Jan. 2022
- Head, Department of Chemistry, CUTN, 2013-2019 & 2022-2025.
- Chairman, Board of Studies Chemistry, CUTN, (2013-2019 & Nov 2022- Nov.2025).
- Coordinator, NEP-2020 Implementation Committee - CUTN (Since 2022)
- Member, Academic Council, CUTN (Since 2013)
- Member, Building Committee, CUTN (Since 2019)
- Member, Library Advisory Committee (Since 2016)
- Member, Research Board, Gandhigram Rural Institute, Dindigal (Since 2024)
- Controller of Examinations (in charge), 21st Jan 2021 to 21st Dec 2023.
- Dean Students' Welfare, CUTN (2016-2020)
- Dean, School of Basic & Applied Sciences, CUTN (2017-2021)
- Chairman, Review Committee Exams, Central University of Andhra Pradesh, June 2025.
- Chairperson – NAAC Peer team
- Chairperson, HEFA Project Monitoring Committee, Three buildings, 96.1 Crores (2018-2024).
- Chairman, School Board, CUTN (2017-2021)

- Chairman, Enquiry Committee, Central University of Odisha (2018-19).
- Nodal Officer, NAD & ABC, CUTN (Jan. 2021- Dec. 2023).
- Chairman/Subject expert in many Universities, NIT & Colleges – Faculty Selection Committee.
- Chairperson NAAC – Steering Committee during the Peer team visit -2016.
- Member, Review Committee, Cadre Recruitment Rules. Non-Teaching and Other Academic Posts 2023-2024.
- Member Executive Council and Court, CUTN (2017-2022)
- Member, Results Committee, National Testing Agency (NTA), New Delhi, 2022-2024.
- Monitoring Committee member -UGC STRIDE Project, 2019-2022.
- Member of the School board, Board of studies & Board of examinations in many Universities.
- Member School Board, Green Energy Technology, Pondicherry University (2022-2025)
- Member IQAC, CUTN (2017-2021)
- Member, Research Board, M S University, Tirunelveli (2022-2025)
- Member, Fact-finding Committee, CUTN (2021-2024)
- Chairman/Member for technical evaluation or procurement of Instruments, CUTN.
- Member framing of CUTN Ordinances.
- NIRF- Nodal Officer (2016-2021).
- Coordinator, International Admissions, CUTN (2017-18).
- *Ek India ka time hai* Programme (MHRD) - Nodal Officer, 2017.
- Chief Warden, CUTN Hostels (2015-2016)
- Coordinator, Community College, CUTN (2013-2014).

CONFERENCES/WORKSHOPS ORGANIZED

1. Two-day National-level lecture workshop, *TRANSITION–2025: "Nurturing Aspirants to Advanced Research in Chemistry"* 13th & 14th March, **2025**.
2. International Workshop on Advanced Organic Electronic Materials - 2025 (iWAOEM-25), February 3rd and 4th, **2025**. Sponsored by the DST-SERB-CRG and the Anusandhan National Research Foundation (ANRF), New Delhi.
3. *Organic Semiconductor Innovations: A Faculty Development Initiative*, Six-Day Online Faculty Development Programme under ATAL Programme, 9th to 14th December **2024**, sponsored by AICTE.
4. *Two-day National Workshop* on "NMR Spectroscopy" during 13-14 Nov **2024**.
5. *Science Academies Lecture Workshop on Modern Trends in Chemical Sciences*, 13-15 March 2024, Department of Chemistry, CUTN, Sponsored by the Indian Academies.
6. Transition – 2024, Two-Day Workshop for PG Chemistry students, 04-05, Mar. **2024**. Department of Chemistry, CUTN.
7. State-level Awareness Workshop on DigiLocker, National Academic Depository and Academic Bank of Credits, by Central University of Tamil Nadu and Ministry of Education Digital India Press, 2nd and 3rd August **2023**.
8. National Workshop on Analytical Instruments for Material Characterization in collaboration with the National Institute of Technology, Warangal, under the **DST-STUTI** scheme, 21st to 27th June **2023**, Department of Chemistry, CUTN.

9. National Workshop on Analytical Instruments for Material Characterization in collaboration with the National Institute of Technology, Warangal, under the **DST-STUTI** scheme. Feb. 8 - 15, **2023**, Department of Chemistry, CUTN.
10. Two-Day Conference of Central University Vice-Chancellors on "Devising Action Plan for Faster and Smoother Implementation of NEP-2020" on 27th and 28th May **2022**, Department of Chemistry, CUTN.
11. UGC-STRIDE Sponsored National Level One Week Faculty Development Programme on Carbon Capture and Storage, 21st to 25th February **2022**, CUTN.
12. *Thieme* Sponsored, Science of Synthesis, New free discovery tool for Synthetic Chemistry methods: SynOne 16th October **2019** at Department of Chemistry, CUTN.
13. Transition – 2018, Two-Day National Workshop on "Recent Advances in Chemistry" 23-24, Jan. **2018**, Department of Chemistry, CUTN.
14. Transition – 2017, Two-Day National Workshop on "New Vistas in Chemistry Research", 17-18 Feb. **2017**, Department of Chemistry, CUTN.
15. Transition – 2016, Two-Day Workshop for 11th Standard School Students, 12-13, Feb. **2016**, Department of Chemistry, CUTN.
16. Transition – 2015, Two-Day Workshop for UG & PG Chemistry College Teachers, 13-14, Mar. **2015**, Department of Chemistry, CUTN.
17. Transition – 2014, Outreach programme for PG Chemistry School Teachers, 24thJan. **2014**, Department of Chemistry, CUTN.

PATENTS

1. **LICOCHALCONE-A AND ITS DERIVATIVES FOR INDUCING NEURONAL DIFFERENTIATION. IN Patent 201,941,038,499 A (2021) .**
2. **IMPROVED SYNTHESIS OF 2-HYDROXYNAPHTHOQUINONE AND ITS ANALOGUES**

RESEARCH PUBLICATIONS

Chapter in Books: Six

International Publications: 140

Edited Books: Two

- (1) Megha, V.P.; Akshaya, M.; Imran, P. M.; Nagarajan, S., Design and synthesis of triphenylamine-based donor-acceptor systems with modulated acceptor strength for enhanced resistive WORM memory device applications. *Tetrahedron*, **2026**, 189, 135004.
- (2) Lenka, S.K.; Anjali, A.; Ardra, M.; Nagarajan, S., Fluorescence quenching and aggregation-induced emission behaviour of Ester-Flanked Quinolines, *J. Lumin.* **2026**, 289,121661.
- (3) Khusi, A.; Ardra, M.; Imran, P. M.; Nagarajan, S., Tuning the Electronic Properties of Benzimidazoles Via D-A-D/A Functionalization for Enhanced Organic Resistive Memory Performance, *Asian J. Org. Chem.* **2025** (*in Press*).

- (4) Swetha, S.V.; Gayathri, R.; Ardra, M.; Imran, P. M.; Nagarajan, S., Exploring the Influence of Acceptor-Strength in Alkoxyphenanthrene-based A- π -D- π -A versus D- π -A Architectures for High-Performance Resistive WORM Memory Devices, *Mater Adv.*, **2025**, (in press).
- (5) Ardra, M.; Swetha, S.V.; Imran, P. M.; Nagarajan, S., Unlocking the Potential of Ferrocene-Functionalised Donor- π -Acceptor Systems with Phthalimide/Naphthalimide Acceptors for Non-volatile Memory Devices, *European J. Org. Chem.* **2025**, e202500666.
- (6) Akshaya, M.; Gayathri, R.; Imran, P. M.; Nagarajan, S., Exploring Single Atom Substitution in Phenanthro[9,10-d]imidazole-based D- π -A Architectures with Fluorene and its Heteroanalogues for Non-Volatile Resistive WORM Memory Device Applications. *Chem. Eur. J.*, **2025**, 31 (12), 2025, e202404337.
- (7) Gayathri, R.; Akshaya, M.; Imran, P. M.; Bhuvanesh. N.S.P.; Nagarajan, S., Efficient Non-Volatile Worm Memory Devices from Ferrocene Functionalized Quinoxaline Systems. *Chem. Asian J.*, **2025**, 20 (10) e202401888.
- (8) Muhsina, K.; Akshaya, M.; Imran, P. M.; Bhuvanesh. N.S.P.; Nagarajan, S., Influence of Terminal Electron Acceptors on Anthracene-Based D- π -A Systems for Enhanced Resistive WORM Memory Performance. *Asian J. Org. Chem.* **2025**, 14 (5), e202500045.
- (9) Gokul, R.; Gayathri, R.; Imran, P. M.; Bhuvanesh, N.S.P.; Nagarajan, S., Exploring the potential of malononitrile functionalized donor-acceptor systems for non-volatile memory device applications, *Phys. Chem. Chem. Phys.*, **2025**, 27, 129-137.
- (10) Komal, K.; Swetha, S.V.; Imran, P. M.; Nagarajan, S., Synthesis of Methoxytriarylamine-Based Metalloporphyrins and Their Influence on the Performance of OFETs, *ChemistrySelect*, **2025**, 10 (33) e01476.
- (11) Akshaya, M.; Harshini, D.; Gayathri, R.; Imran, P. M.; Nagarajan, S., Asymmetrically Functionalized Phenanthro[9,10-d]imidazole-Based Donor-Acceptor Architectures for High-Performance Ternary Memory Devices. *ACS Appl. Electron. Mater.* **2024**, 6, 10, 7522–7539.
- (12) Balambiga, B.; Devibala, P.; Imran, P. M.; Nagarajan, S., Tunable Charge Transport Using Heterocycles-Flanked Alkoxyphenanthrenes for High-Performing OFETs. *ACS Omega* **2024**, 9, 41, 42091–42102.
- (13) Gayathri, R.; Akshaya, M.; Imran, P. M.; Nagarajan, S., Design of Triphenylamine-based D- π -A Systems for Efficient Ternary WORM Memory Devices, *Chem. Eur. J.* **2024**, 30 (48), e202402015.
- (14) Swetha, S.V.; Gayathri, R.; Ardra, M.; Imran, P. M.; Nagarajan, S., Inherent D-A Architecture in Indoloquinoxalines with an Array of Substituents for Non-Volatile Memory Device Applications, *ChemPhysChem.*, **2024**, 25 (9) e202400003.
- (15) Ardra, M.; Gayathri, R.; Swetha, S.V.; Imran, P. M.; Nagarajan, S., Tweaking the Non-Volatile Write-Once-Read-Many-Times (WORM) Memory using Donor-Acceptor Architecture with Isatin as Core Acceptor, *ChemPlusChem.*, **2024**, 89(8), e202400018.

- (16) Harshini, D.; Angela, V. M.; Imran, P. M.; Nagarajan, S., Exploring the Transformation of Static Random Access Memory to Write-Once-Read-Many-Times Memory Behavior in Imidazole–Triphenylamine-Based Devices, *ACS Appl. Electron. Mater.* **2024**, 6, 1, 358–369.
- (17) Gayathri, R.; Akshaya, M.; Imran, P. M.; Nagarajan, S., Modified Donor End Caps for Binary-to-Ternary WORM Memory Conversion in N-Heteroaromatic Systems, *ChemPhysChem.*, **2024**, 25 (11) e202400062.
- (18) Devibala, P.; Balambiga, B.; Imran, P. M.; Nagarajan, S., π -Extended indoloquinoxaline functionalized triarylamine with ethynyl and tetracyanobutadiene bridges for p-channel and ambipolar OFETs, *New J. Chem.*, **2024**, 48, 193-202.
- (19) Angela, V. M.; Harshini, D.; Imran, P. M.; Bhuvanesh, N.S.P.; Nagarajan, S., Rational design of quinoline-based D-A system to accomplish a switching from binary to ternary memory devices, *Synthetic Metals*, **2024**, 305, 117598.
- (20) Bhagyanath, P.K.; Angela, V. M.; Asit, H.; Imran, P. M.; Bhuvanesh, N.S.P.; Nagarajan, S., Switching from binary to ternary WORM memory behavior of benzothiadiazole-based D–A system, *Mater. Adv.*, **2024**, 5, 3323-3333.
- (21) A. S. Achutha, A.S.; Krishna, S.; Pushpa, V.L.; Harshini, D.; Aiswarya, U.S.; Nagarajan, S.; Anto, R.J.; Vinod, B.S.; Prakash, P.; Manoj, S. V.; Manoj, K. B.; Sarithamol, S.; Surendran, S.; Divya, V., Designing JAK2 Inhibitors Beyond Myeloproliferative Neoplasms - Theoretical and Experimental Analysis for Solid Cancers, *ChemistrySelect.*, **2024**, 9 (19), e202400072.
- (22) Noureen, S.; Devibala, P.; Imran, P. M.; Nagarajan, S., Acetylene-extended triarylamine for solution-processable p-channel OFETs, *Synthetic Metals*, **2024**, 302, 117541.
- (23) Harshini, D.; Angela, V. M.; Imran, P. M.; Nagarajan, S., Arylacetylene End-Capped Triarylamine-Based D–A System for Switching from Binary to Ternary Memory Behavior, *ACS Appl. Electron. Mater.*, **2023**, 5, 11, 6420–6432.
- (24) Angela, V. M.; Harshini, D.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S., Efficient ternary WORM memory devices from quinoline-based D–A systems by varying the redox behavior of ferrocene, *RSC Adv.*, **2023**, 13, 28416-28425.
- (25) Balambiga, B.; Devibala, P.; Harshini, D.; Imran, P. M.; Nagarajan, S., Acetylene Bridged Alkoxyphenanthrene and Triarylamine-Based Triads for Low Threshold Voltage with High Mobility OFETs. *Mater. Chem. Front.* **2023**, 7, 2225-2234
- (26) Gayathri, R.; Angela, V. M.; Devibala, P.; Imran, P. M.; Nagarajan, S., Tailoring the Resistive Switching WORM Memory Behavior of Functionalized Bis (Triphenylamine). *ACS Appl. Mater. Interfaces* **2023**, 15 (19), 23546–23556.
- (27) Angela, V. M.; Harshini, D.; Anjali, A.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S., Enhancing the Resistive Switching Behavior of WORM Memory Devices Using D– Π –A Based Ester-Flanked Quinolines. *Chem. Eur. J.* **2023**, 29 (8), e202202569.

- (28) Kurlekar, K.; Anjali, A.; Imran, P. M.; Nagarajan, S. High-Performance Organic Field-effect Transistors from Functionalized Zinc Meso-Porphyrins. *ChemPhysChem* **2023**, *24* (2), e202200375.
- (29) Angela, V. M.; Harshini, D.; Imran, P. M.; Nagarajan, S. Strategical Design and Synthesis of D–A–D-Based Quinolines for Improved WORM Memory Performance. *J. Mater. Chem. C* **2023**, *11* (3), 1103–1110.
- (30) Devibala, P.; Balambiga, B.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Synthesis of Anthracene and Pyrene End-Capped Triarylamines for P-Channel High-Performance OFETs. *European J. Org. Chem.* **2022**, *2022* (44), e202200825.
- (31) Ganesh, P. S.; Veena, K.; Senthil, R.; Iswamy, K.; Ponmalar, E. M.; Mariappan, V.; Girija, A. S. S.; Vadivelu, J.; Nagarajan, S.; Challabathula, D. Biofilm-Associated Agr and Sar Quorum Sensing Systems of Staphylococcus Aureus Are Inhibited by 3-Hydroxybenzoic Acid Derived from Illicium Verum. *ACS omega* **2022**, *7* (17), 14653–14665.
- (32) Jeyavelan, M.; Khurshid, F.; Akhil, M.; Kannan, R. R.; Ramesh, A.; Nagarajan, S.; Hofmann, M.; Hudson, M. S. L. Highly Sensitive Organic Electrochemical Transistor for Detection of Stress-Induced Cation Leakage from Plant Cells. *Biosens. Bioelectron. X* **2022**, *12*, 100251.
- (33) Harshini, D.; Devibala, P.; Angela, V. M.; Nagarajan, S. Approaches for Fabricating Tri- and Tetraphenylethene-Based Blue Organic Light-Emitting Diodes Using Donor–Acceptor and Non-Donor–Acceptor Molecular Architectures. *Phys. status solidi (RRL)–Rapid Res. Lett.* **2022**, *16* (11), 2200206.
- (34) Anjali, A.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Influence of Π -Endcaps on the Performance of Functionalized Quinolines for p-Channel OFETs. *Macromol. Rapid Commun.* **2022**, *43* (3), 2100472.
- (35) Harshini, D.; Angela, V. M.; Devibala, P.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Improved Resistive Switching WORM Memory Behavior in D- π -A Architectures by Modifying the Terminal Donor Units. *ACS Appl. Electron. Mater.* **2022**, *4* (9), 4383–4395.
- (36) Panneerselvam, D.; Predhanekar, I.; Bhuvanesh, N.; Nagarajan, S. Influence of Tetraphenylbenzene on the OFET Behavior of Triarylamines. *Adv. Electron. Mater.* **2022**, *8*. <https://doi.org/10.1002/aelm.202200484>.
- (37) Balambiga, B.; Devibala, P.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. High Mobility and ON/OFF Ratio of Solution-Processable P-Channel OFETs from Arylacetylene End-Capped Alkoxyphenanthrenes. *ChemPhysChem* **2022**, *23* (23), e202200350.
- (38) Anjali, A.; Lenka, S. K.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Functionalized D/A-A-D Quinolines for Application in Solution-Processable p-Channel Organic Field-Effect Transistors. *New J. Chem.* **2022**, *46* (28), 13608–13614. <https://doi.org/10.1039/d2nj00686c>.
- (39) Devibala, P.; Balambiga, B.; Noureen, S.; Nagarajan, S. Hexaarylbenzene Based High-Performance p-Channel Molecules for Electronic Applications. *RSC Adv.* **2021**, *11* (19), 11672–11701.
- (40) Devibala, P.; Balambiga, B.; Noureen, S.; Nagarajan, S. Hexaarylbenzene Based High-Performance p-Channel Molecules for Electronic Applications. *RSC Adv.* **2021**, *11* (19), 11672–11701.

- (41) Abhijna Krishna, R.; Dheepika, R.; Muralisankar, M.; Nagarajan, S. Microwave-Assisted Synthesis and DNA-Binding Studies of Half-Sandwich Ruthenium (II) Arene Complexes Containing Phenanthroimidazole-Triarylamine Hybrids. *J. Coord. Chem.* **2021**, *74* (4–6), 838–849.
- (42) Devibala, P.; Balambiga, B.; Mohamed Imran, P.; Bhuvanesh, N. S. P.; Nagarajan, S. Butterfly-Like Triarylaminines with High Hole Mobility and On/Off Ratio in Bottom-Gated OFETs. *Chem. Eur. J.* **2021**, *27* (62), 15375–15381.
- (43) Mishra, A.; Dheepika, R.; Parvathy, P. A.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Fluorescence Quenching Based Detection of Nitroaromatics Using Luminescent Triphenylamine Carboxylic Acids. *Sci. Rep.* **2021**, *11* (1), 19324.
- (44) Khurshid, F.; Jeyavelan, M.; Nagarajan, S. Photocatalytic Dye Degradation by Graphene Oxide Doped Transition Metal Catalysts. *Synth. Met.* **2021**, *278*, 116832.
- (45) Angela, V. M.; Anjali, A.; Harshini, D.; Nagarajan, S. Organic Light-Emitting Transistors: From Understanding to Molecular Design and Architecture. *ACS Appl. Electron. Mater.* **2021**, *3* (2), 550–573.
- (46) Sonalin, S.; Kurlekar, K.; Anjali, A.; Imran, P. M.; Nagarajan, S. Cover Feature: Synthesis of Phenanthro [9, 10-d] Imidazoles and Their Potential Applications in Solution Processable Bottom-Gated OFETs (Asian J. Org. Chem. 6/2020). *Asian J. Org. Chem.* **2020**, *9* (6), 841.
- (47) Yadhukrishnan, V. O.; Muralisankar, M.; Dheepika, R.; Konakanchi, R.; Bhuvanesh, N. S. P.; Nagarajan, S. Structurally Different Domains Embedded Half-Sandwich Arene Ru (II) Complex: DNA/HSA Binding and Cytotoxic Studies. *J. Coord. Chem.* **2020**, *73* (10), 1591–1604.
- (48) Sonalin, S.; Kurlekar, K.; Anjali, A.; Imran, P. M.; Nagarajan, S. Synthesis of Phenanthro [9, 10-d] Imidazoles and Their Potential Applications in Solution Processable Bottom-Gated OFETs. *Asian J. Org. Chem.* **2020**, *9* (6), 939–946.
- (49) Venkatramanan, M.; Ganesh, P. S.; Senthil, R.; Akshay, J.; Ravi, A. V.; Langeswaran, K.; Vadivelu, J.; Nagarajan, S.; Rajendran, K.; Shankar, E. M. Inhibition of Quorum Sensing and Biofilm Formation in Chromobacterium Violaceum by Fruit Extracts of Passiflora Edulis. *ACS Omega*, *5*, 25605–25616.
- (50) Parvathy, P. A.; Dheepika, R.; Abhijnakrishna, R.; Imran, P. K. M.; Nagarajan, S. Fluorescence Quenching of Triarylamine Functionalized Phenanthroline-Based Probe for Detection of Picric Acid. *J. Photochem. Photobiol. A Chem.* **2020**, *401*, 112780.
- (51) Khurshid, F.; Jeyavelan, M.; Hussain, T.; Hudson, M. S. L.; Nagarajan, S. Ammonia Gas Adsorption Study on Graphene Oxide Based Sensing Device under Different Humidity Conditions. *Mater. Chem. Phys.* **2020**, *242*, 122485.
- (52) Anjali, A.; Dheepika, R.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Ester-Flanked π -Extended Quinolines for Solution-Processable Ambipolar Organic Field-Effect Transistors. *ACS Appl. Electron. Mater.* **2020**, *2* (8), 2651–2661.
- (53) Sonalin, S.; Mishra, A.; Sahu, A. K.; Mishra, A. K.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Aggregation Behavior and High Charge-Carrier OFET-Mobility of Functionalized Phenanthro [9, 10-d] Imidazoles. *J. Phys. Chem. C* **2020**, *124* (24), 13053–13062.

- (54) Kurlekar, K.; Anjali, A.; Sonalin, S.; Imran, P. M.; Nagarajan, S. Solution-Processable Meso-Triarylamine Functionalized Porphyrins with a High Mobility and ON/OFF Ratio in Bottom-Gated Organic Field-Effect Transistors. *ACS Appl. Electron. Mater.* **2020**, *2* (10), 3402–3408.
- (55) Dheepika, R.; Abhijnakrishna, R.; Imran, P. M.; Nagarajan, S. High Performance P-Channel and Ambipolar OFETs Based on Imidazo [4, 5-f]-1, 10-Phenanthroline-Triarylaminates. *RSC Adv.* **2020**, *10* (22), 13043–13049.
- (56) Dheepika, R.; Shaji, A.; Imran, P. M.; Nagarajan, S. Improving Device Performance of p-Type Organic Field-Effect Transistor Using Butterfly like Triarylaminates. *Org. Electron.* **2020**, *81*, 105568.
- (57) Sivakumar, D.; Thanusu, J.; Kanagarajan, V.; Nagarajan, S.; Manikandan, H.; Gopalakrishnan, M. One-Pot Synthesis of 2-Hydroxy-1, 4-Naphthoquinone (Lawsone). *Curr. Org. Synth.* **2019**, *16* (3), 431–434.
- (58) Dheepika, R.; Mohamed Imran, P.; Bhuvanesh, N. S. P.; Nagarajan, S. Solution-processable Unsymmetrical Triarylaminates: Towards High Mobility and ON/OFF Ratio in Bottom-gated OFETs. *Chem. Eur. J.* **2019**, *25* (66), 15155–15163.
- (59) Sonalin, S.; Pandikassala, A.; Dheepika, R.; Imran, P. K. M.; Nagarajan, S. Molecular Aggregation Stimulated Tunable Emission Behaviour of Functionalized 1, 8-Naphthalimides. *J. Lumin.* **2019**, *215*, 116699.
- (60) Devibala, P.; Dheepika, R.; Vadivelu, P.; Nagarajan, S. Synthesis of Arylbenzoate-Based Push-Pull Molecules for OFET Applications. *ChemistrySelect* **2019**, *4* (8), 2339–2346.
- (61) Khurshid, F.; Jeyavelan, M.; Hudson, M. S. L.; Nagarajan, S. Ag-Doped ZnO Nanorods Embedded Reduced Graphene Oxide Nanocomposite for Photo-Electrochemical Applications. *R. Soc. Open Sci.* **2019**, *6* (2), 181764.
- (62) Muralisankar, M.; Dheepika, R.; Haribabu, J.; Balachandran, C.; Aoki, S.; Bhuvanesh, N. S. P.; Nagarajan, S. Design, Synthesis, DNA/HSA Binding, and Cytotoxic Activity of Half-Sandwich Ru (II)-Arene Complexes Containing Triarylamine-Thiosemicarbazone Hybrids. *ACS Omega* **2019**, *4* (7), 11712–11723.
- (63) Dheepika, R.; Sonalin, S.; Imran, P. M.; Nagarajan, S. Unsymmetrical Starburst Triarylaminates: Synthesis, Properties, and Characteristics of OFETs. *J. Mater. Chem. C* **2018**, *6* (26), 6916–6919.
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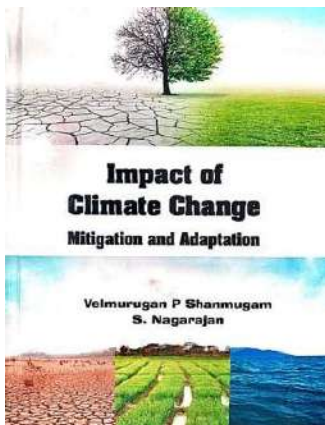
S. Nagarajan & Velmurugan P. S.(Ed.)(2023). “Proceedings of the Two-Day National Conference of Central University Vice-Chancellors on Devising Action Plan for Faster and Smoother Implementation of NEP 2020”. The Publication Cell, CUTN ISBN: 978-81-96161002 p.154



Our country has a large number of higher educational institutions. The National Education Policy (NEP) 2020 has been framed to bring out significant transformation in our higher education system, thanks to the visionary leadership of the Prime Minister of India. We are confident that the NEP if implemented as envisioned, will pitch our country as the guiding light in the world of education. Successful implementation of NEP, however, is in the hands of academic administrators who understand the nuances of its implementation and take suitable steps to implement the policy swiftly. As Central Universities and other Centrally Funded Institutions are front runners in implementing the NEP, the Central University of Tamil Nadu has organized a Two-Day Conference of Central University Vice-Chancellors on Devising an Action Plan for Faster and Smoother Implementation of NEP

2020 on May 27-28, 2022. We are confident that the deliberations in this conference will support and facilitate proactive measures taken by the Ministry of Education and the Government of India. The expertise of the Resource Persons will enormously help the universities and institutions that participated in the conference in implementing NEP 2020.

Velmurugan P S and S. Nagarajan, (ed.) (2023). “Impact of Climate Change: Mitigation & Adaptation”. SSDN Publishers & Distributors, New Delhi, ISBN: 9789392798030 p. 255.



Climate change has been the talk of the town for the past few years. It is also the most controversial and developing area for research because of its long-term impact on the global community. Since 1994, when the United Nations Framework Convention on Climate Change (UNFCCC) was framed, there has been little evidence that climate change has impacted the world, and that was because human interventions caused climate change. Further, a growing literature shows climate change will impact the global communities and the earth's natural environment.

The University Grants Commission also exhibited interest in climate change-related studies by granting an important trans-disciplinary project under its STRIDE program to the Central University of Tamil Nadu. Through the STRIDE project, the CUTN has conducted several research studies, capacity-building programs, and human resource development programs focusing on mitigating climate change for the past three years.

Papers Presented in Conferences, Seminars, Workshops, Symposia

S.No	Title of the papers presented	Title of Conference/ Seminar	Organized by
124	Gokul, R. and Nagarajan, S., Donor-Acceptor Platforms with Malononitrile for Next-Generation Resistive Memory Devices	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March 2025	Gandhigram Rural Institute, Dindugul,
123	Janani, K. and Nagarajan, S., Functionalized Triphenylamine and Phenoxazinone-based Blends for Organic NonVolatile Binary WORM Memory Devices,	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March, 2025	Gandhigram Rural Institute, Dindugul,
122	Jayalakshmi, L. and Nagarajan, S., Pyridine -based D- π -A Systems for Memory Device Applications,	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March, 2025	Gandhigram Rural Institute, Dindugul,
121	Namitha, A. and Nagarajan, S., Influence of Polyaromatics in Phenanthro[9,10-d] imidazole -based Donor- Acceptor Systems for Non-Volatile Resistive WORM Memory Device	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March, 2025	Gandhigram Rural Institute, Dindugul,
120	Thejalakshmi and Nagarajan, S., Design and Synthesis of Dibenzothiophene-S, S-dioxide-based D-A-D' and D-AA' Architected Organic Small Molecules	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March, 2025	Gandhigram Rural Institute, Dindugul,
119	Lubna Parveen, C., Akshaya, M. and Nagarajan, S., Stratrgical design and synthesis of Donor-acceptor-based Quinoliness for Improved WORM memory performance	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March, 2025	Gandhigram Rural Institute, Dindugul,
118	Agrawal, K. and Nagarajan, S., Imidazole-based D-A-D and D-A-A Systems for Resistive Memory Applications for Organic Non-Volatile Binary WORM Memory Devices,	ICMGS 2025, International Conference on Materials for Green and Sustainable Chemistry, 6 & 7 March, 2025	Gandhigram Rural Institute, Dindugul,
117	High Mobility and ON/OFF Ratio of Solution-processable p-Channel OFETs from Pyrene, Anthracene and Triphenylamine based D- π -D triads,	CRSI National Symposium in Chemistry and CRSIACS Lectures, 4 to 6 July, 2024.	Dr. Reddy's Laboratories Ltd, Hyderabad,
116	Design and Synthesis of [3]-Phenacene-based A- π -D- π -A and D- π -A Architecture for Non-Volatile Memory Device Application.	Advances in Material Science and Technology, December 27-28, 2024.	PSG College of Technology, Coimbatore

115	Fine-Tweaked Quinoxalines: Robust Materials for Binary WORM Memory Devices	23rd Prof. K.V. Thomas Endowment National Seminar on Frontiers in Materials Science, November 27-28, 2024	Sacred Heart College, Thevara, Kochi
114	Ferrocene-based D- π -A Systems for Binary WORM Memory Applications	23rd Prof. K.V. Thomas Endowment National Seminar on Frontiers in Materials Science, November 27-28, 2024	Sacred Heart College, Thevara, Kochi
113	Enhanced Resistive Switching WORM Memory Behavior in D- π -A Architectures Through Terminal Donor Unit Modification	International Conference on Nanoscience and Nanotechnology for Sustainability, July 4 & 5, 2024,	SCMS School of Engineering and Technology, Karukutty, Ernakulam
112	Triarylamine-based D- π -A Systems for Ternary WORM Memory Application	International Conference on Nanoscience and Nanotechnology for Sustainability, July 4 & 5, 2024,	SCMS School of Engineering and Technology, Karukutty, Ernakulam
111	Strategical Design and Synthesis of Donor-Acceptor-based Phenanthro[9,10-d]imidazoles for Improved WORM Memory Performance	Frontier Ares in Chemical Technologies, March 22 & 23, 2024	Alagappa University, Karaikudi
110	Asymmetrically functionalized acceptor end-capped triarylaminers for high-performance, non-volatile resistive memory devices	Frontier Ares in Chemical Technologies, March 22 & 23, 2024	Alagappa University, Karaikudi
109	Design and synthesis of solution-processable functionalized anthracenes for bistable resistive memory device applications	Frontier Ares in Chemical Technologies, March 22 & 23, 2024	Alagappa University, Karaikudi
108	Design and Synthesis of D- π -A-based N-Heteroaromatic Systems for Improved WORM Memory Performance	National Conference on Scientific Advancements and Strategies Towards Sustainable Society, March 14 & 15, 2024	CECRI, Karaikudi
107	Isatin-based D-A Systems for non-volatile Resistive switching WORM Memory Devices	Advanced Functional Materials and Devices, February 26-29, 2024	SRM Institute of Science and Technology, Kattankulathur, Chennai
106	Tunable WORM Memory Performance of Donor/Acceptor End-capped Phenanthroimidazoles	Advanced Functional Materials and Devices, February 26-29, 2024	SRM Institute of Science and Technology, Kattankulathur, Chennai
105	Design and Synthesis of D-A Architecture Employing Indoloquinoxalines for Non-Volatile Memory Devices	Emerging Chemistry Trends: Innovations and Sustainable Solutions, Dec 1, 2023.	National Institute of Technology, Tiruchirappalli
104	Tailoring the Resistive Switching WORM Memory Behavior of Functionalized Bis(triphenylamine)	National Conference on Transcending Frontiers in Chemical Sciences, August 11 & 12, 2023	National Institute of Technology, Tiruchirappalli

103	Design and Synthesis of Star-shaped Phenanthroimidazole molecules for Resistive Memory Applications	National Conference on Transcending Frontiers in Chemical Science, August 11 & 12, 2023	National Institute of Technology, Tiruchirappalli
102	Improving the Memory Performance from Binary to Ternary using D-A-based Arylacetylene end-capped triarylaminines	International Conference on Molecularly designed functional materials, September 28-30, 2023	S & T Digital,
101	Resistive switching WORM memory behaviour of D-A-based Functionalized Bis-triarylaminines	International conference on functional materials for advanced technologies, January 2-4, 2023	Central University of Kerala
100	Influence of terminal substituents on WORM Memory behaviour of Functionalized Imidazoles	Advancements in Materials Science and Technology, November 02-04, 2022	Sathyabama Institute of Science and Technology
99	Triarylamine-based Non-Volatile Resistive Memory Controlled by a Redox-gated Switching Mechanism	Advancements in Materials Science and Technology, November 02-04, 2022	Sathyabama Institute of Science and Technology
98	Influence of Terminal Donor and Acceptor substituents on Binary Memory behaviour of Functionalized Bis-triarylaminines	Recent Advances in Chemical Sciences, July 21 & 22, 2022.	Ganthigram Rural Institute
97	Enhancing the Resistive Switching WORM Memory Behavior of D- π -A architectures through the Modification of Terminal Donor units	Recent Advances in Chemical Sciences, July 21 & 22, 2022	Ganthigram Rural Institute
96	Design and Synthesis of Anthracene and Pyrene Flanked D- π -D Triarylaminines for Solution-processable OFET	International conferences on Recent Advances in Chemical Sciences (ICRACS-2022), March 10-11, 2022	Mahatma Gandhi College, Thiruvananthapuram
95	High-performance p-channel OFETs based on arylacetylenes end-capped alkoxy phenanthrenes	National Conference on Frontiers in Chemistry, December 16-18, 2021	National Institute of Technology, Trichy
94	Write-Once-Read-Many-Times (WORM) Memory Applications of D- π -A Architecture based Functionalized Triarylaminines	International Conference on Emerging Trends in Synthetic Organic Chemistry-2021 (ICETSOC-2021), December 6-7, 2021	National Institute of Technology, Puducherry
93	Synthesis of Triphenylamine-based D- π -A Molecules for OFET Applications	International Conference on Emerging Trends in Synthetic Organic Chemistry-2021 (ICETSOC-2021), December 6-7, 2021	National Institute of Technology, Puducherry
92	Vinylene conjugated heteroarene derivatives with Aggregation-Induced Emission characteristics for Electronics applications	National Conference on Frontiers in Chemical Sciences" (NCFC-2020), March 19- 20, 2020.	Central University of Tamil Nadu
91	Design and Synthesis of Quinoline-4-carboxylates for OFET Applications	National Conference on Frontiers in Chemical Sciences" (NCFC-2020), March 19- 20, 2020.	Central University of Tamil Nadu

90	Design and synthesis of metalloporphyrins for OFET application by solution processable technique	National Conference on Frontiers in Chemical Sciences" (NCFC-2020), March 19-20, 2020.	Central University of Tamil Nadu
89	Solution-processable Tetraphenylbenzene-decorated Triarylamines for Bottom-gated OFETs	National Conference on Frontiers in Chemical Sciences" (NCFC-2020), March 19- 20, 2020.	Central University of Tamil Nadu
88	Picene-PTCDI semiconductor blends for Ambipolar Organic Field-effect Transistors	International Conference on frontiers in chemical and material sciences" (ICFCMS-2020), February 24-25, 2020	Gandhigram Rural Institute, Dindugal
87	Functionalized quinolines for application in ambipolar organic field-effect transistors	International Conference on frontiers in chemical and material sciences" (ICFCMS-2020), February 24-25, 2020	Gandhigram Rural Institute, Dindugal
86	Design and Synthesis of Arylene Bridged Triarylamine Triads for Solution Processable OFETs	International Conference on frontiers in chemical and material sciences" (ICFCMS-2020), February 24-25, 2020	Gandhigram Rural Institute, Dindugal
85	Design and Synthesis of Solution Processable meso-substituted Porphyrin for OFET Applications	International Conference on Advances in Chemical Sciences and Technologies (ACST-2019) September 23-25-2019	National Institute of Technology, Warangal.
84	Photophysical studies on Donor-Acceptor blends of Picene-PTCDI	International conference on Frontier Areas in Chemical Technologies -2019 (FACTs-2019), July 25-26, 2019.	Alagappa University, Karaikudi
83	Meso-substituted Porphyrins for Bottom-gated OFETs by Solution Processing Technique	International Conference on Frontier Areas in Chemical Technologies -2019 (FACTs-2019), July 25-26, 2019.	Alagappa University, Karaikudi
82	Starburst unsymmetrical triarylamines for P-channel organic field-effect transistors: Improving device performance by solvent engineering	International conference on Frontier Areas in Chemical Technologies -2019 (FACTs-2019), July 25-26, 2019.	Alagappa University, Karaikudi
81	Synthesis of Triphenylamine-based D- π -A Molecules for OFET Applications	International conference on Frontier Areas in Chemical Technologies, July 25-26, 2019.	Alagappa University, Karaikudi
80	Functionalized arm-chair edged Picenes for Organic Field-Effect Transistors (OFET), Transition	Recent Trends in Chemistry, Feb-22-23, 2019.	Central University of Tamil Nadu, Thiruvarur
79	Synthesis of meso-substituted Porphyrins for Electronic Applications	Recent Trends in Chemistry, Feb-22-23, 2019.	Central University of Tamil Nadu, Thiruvarur
78	Unsymmetrical triarylamines for solution processable organic fiels effect transistor applications	Recent Trends in Chemistry, Feb-22-23, 2019.	Central University of Tamil Nadu, Thiruvarur

77	Metal oxide nanorods intercalated reduced graphene oxide nanocomposite for photoelectrochemical applications	Recent Trends in Chemistry, Feb-22-23, 2019.	Central University of Tamil Nadu, Thiruvaurur
76	π -Extended Quinolines: Design, synthesis and potential application in Organic Field-effect Transistors	Recent Trends in Chemistry, Feb-22-23, 2019.	Central University of Tamil Nadu, Thiruvaurur
75	Functionalized triarylaminines for solution processable organic field-effect transistors	International Conference on. Chemistry and Physics of Materials, December 19-21, 2018	St. Thomas. College, Thrissur
74	Meso-substituted Porphyrins for Electronic Applications	International Conference on. Chemistry and Physics of Materials, Dec. 19-21, 2018	St. Thomas. College, Thrissur
73	Design, synthesis and characterization of new quinoline based molecules for potential OFET applications	International Conference on. Chemistry and Physics of Materials, December 19-21, 2018.	St. Thomas. College, Thrissur
72	Pi-extended fluorescent quinolines: Design, synthesis for potential application in organic field-effect transistors	National Workshop on Fluorescence and Raman Spectroscopy (FCS-2018), Nov 12-17, 2018	JNU Convention Centre, JNU, New Delhi
71	Synthesis of aroylbenzoate-based puh-pull molecules for OFET applications	National Seminar on "Innovations in Chemical Sciences and Green Technology, September 6-7, 2018	PSGR Krishnammal College, Coimbatore
70	Aryl propargyl functionalized GO for excellent Ammonia gas sensing application	71 st Annual Technical meeting and international symposium on Lightweight for Defence Aerospace and Transportation, Nov. 11-14, 2017.	BITS Pilani K K Birla, Goa Campus, Goa.
69	Functionalized triphenylaminines for organic electronic applications	New Trends in Applied Chemistry, February 9-11, 2017.	Sacred Heart College, Thevara, Kochi
68	Design and synthesis of phenanthro [9,10-d] imidazoles for thin film transistor devices	New Trends in Applied Chemistry, February 9-11, 2017.	Sacred Heart College, Thevara, Kochi
67	Functionalization of 1,8 - Naphthalimides- An approach towards air-stable n-type organic semiconductors.	International Conference on Advanced Materials for a Better Tomorrow. 19-21 Dec. 2016.	Amrita Vishwa Vidyapeetham, Coimbatore,
66	Admixture of n-type and p-type organic semiconductor with graphene oxide	International Conference on Recent Advances In Material and Chemical Sciences (ICRAMCS) GRI, Tamil Nadu December, 14-12-2015.	Dept. of Chemistry, GRI, Tamil Nadu

65	Synthesis of soluble fulleropyrrolidines	Royal Society of Chemistry-CRSI National Symposium, 06-09, Feb. 2014.	IIT Mumbai
64	Self-assembly, optical and electrical properties of new perylene diimides	International conference on Futuristic material 5-7 Feb 2015.	RTMNU, Nagpur
63	Synthesis of new (C ₆₀) fullerene pyrrolidine derivatives.	National Seminar on "Chemistry Education and Research & National Convention of Chemistry Teachers (NCCT-13), 8 th -10 th Nov, 2013.	Department of Chemistry, Annamalai University and (ACT)
62	Synthesis and NMR analysis of Fulleropyrrolidines	National conference on fundamental and applied chemistry, 4 th Oct 2013	Dhirajlal Gandhi College of Technology, Salem
61	Synthesis of new fulleropyrrolidine derivatives of C ₆₀ .	International Conference on "Recent Advances in Textile and Electrochemical Sciences-2013 (RATES-2013)", 21 st - 23 rd March, 2013.	Department of Industrial Chemistry, Alagappa University, Karaikudi
60	Design and synthesis of new 10-oxa-8-azaspiro [5.6]-dodecenones	National Seminar on New Vistas in Catalysis and Surface Science 16-17 March - 2012	Dept. of Chemistry, Annamalai University
59	Synthesis, optical and electrical properties of novel alkyl substituted fulleropyrrolidines.	14th CRSI National Symposium in Chemistry (NSC-14) 3- 5 Feb, 2012	NIIST, Trivandrum
58	Self-assembly, optical and electrical properties of perylene bisimides	7th National Symposium and Conference on Solid State Chemistry & Allied Areas (ISCAS - 2011) 24-26 Nov, 2011.	Jamia Millia Islamia, New Delhi
57	Self-assembly and photo-physical studies of 2,4,5-triarylimidazoles	National seminar on recent trends in synthetic methods and chemistry of natural products. October 14th and 15th 2011.	Dept. of Chemistry, Annamalai University
56	Self-assembly and photophysical properties of a novel perylene bisimide	National seminar on recent trends in synthetic methods and chemistry of natural products. October 14th and 15th 2011.	Dept. of Chemistry, Annamalai University
55	Synthesis and optical properties of a fulleropyrrolidine bearing long alkyl chain	National seminar on recent trends in synthetic methods and chemistry of natural products. Oct. 14th and 15th 2011.	Dept. of Chemistry, Annamalai University
54	Self-assembly and optical and electrical properties of perylene diimide	National Seminar on 'Recent Trends in Chemical Sciences: Frontiers and Challenges, 25- 26 August 2011.	University of Kerala, Trivandrum
53	Preparation of Nanobelt like aggregates of Perylene bisimide	National Seminar on Novel synthetic and computational strategies in Chemical Sciences, 28-29, March 2011	Dept. of Chemistry, Annamalai University

52	Synthesis and antioxidant activities of novel 2-Iminothiazolidin-4-ones	RSC MEDCHEM Congress, 25-26, Feb 2011.	IICT & NIPER, Hyderabad
51	Antimicrobial activity and evaluation of MEP under DFT for N-nitrosopiperidin-4-one semicarbazone and thiosemicarbazones	National Conference on recent trends in Organic Synthesis, 24-26th Feb, 2011	Bharathidasan University, Trichy
50	Synthesis, self-assembly and optical properties of a highly fluorescent and water soluble perylene bisimide	Recent Applications of Nanomaterials in Chemistry and Environmental Research, 18-19, Feb.2011	Kongu Engineering College, Erode
49	Self-assembly of highly fluorescent and water soluble perylenebisimide	National symposium on new trends in Materials research, 18-20, Nov. 2010	ISCAS, Jammu
48	Biodegradation of textile dyeing wastewater using a two-phase pilot plant UASB reactor with sago wastewater as co-substrate	8th International Symposium on Southeast Asian Water Environment, Thailand, Oct 24 - 26, 2010	Southeast Asian Water forum, Thailand
47	Synthesis, optical and electrochemical properties of perylene bismide	International Conference on Recent Frontiers in Applied Spectroscopy. 22-24 Sept 2010	Dept. of Physics, Annamalai University
46	Water soluble perylene diimide	Tamil Science Conference, 21-23, May 2010, State level	M.S. University, Tirunelveli
45	NMR studies of N-nitrosopiperidin-4-one semicarbazone and Thiosemicarbazones using GIAO in DFT	National Seminar on New Frontiers in Chemistry, 15-16, Mar, 2010	Dept. of Chemistry, Annamalai University
44	Reductive amination of piperdin-4-ones	National Seminar on New Frontiers in Chemistry, 15-16 Mar, 2010	Dept. of Chemistry, Annamalai University
43	Synthesis, photophysical and electrochemical properties of a minuscule tailed perylene diimide	National Seminar on New Frontiers in Chemistry, 15-16, Mar, 2010.	Dept. of Chemistry, Annamalai University
42	Towards highly fluorescent and water soluble perylene diimide	National Seminar on New Frontiers in Chemistry, 15-16, Mar, 2010	Dept. of Chemistry, Annamalai University
41	Synthesis and antimicrobial evaluation of 6-aryl-3,4-dihydro-4-(isobutylphenyl)-3-methylpyrimidin-2(1H)- ones	National Seminar on New Frontiers in Chemistry, 15-16, Mar, 2010	Dept. of Chemistry, Annamalai University
40	Synthesis, photophysical and electrochemical properties of asymmetrical perylene diimides	SAIF Bangalore One-day users meeting, 9 Mar 2010,	NMR research centre, IISc, Bangalore
39	Molecular devices for single molecule experiments	International Conference on Materials for the Millennium, Jan 11-13, 2010.	CUSAT, Cochin

38	Experimental and theoretical studies of electrochemical characterization of nitrodiarylpropenones	National Conference of Material Science, 9-10, Oct, 2009	Dept. of Chemistry, Annamalai University
37	A facile synthesis of 2-aminothiazines	National Conference of Material Science, 9-10, Oct, 2009	Dept. of Chemistry, Annamalai University
36	Plant pathogen growth inhibition, QSAR and evaluation of MEP for N-nitrosopiperidinone semicarbazone and thiosemicarbazones	National Conference of Material Science, 9-10, Oct, 2009	Dept. of Chemistry, Annamalai University
35	Synthesis of some novel Isoxazolones	National Conference of Material Science, 9-10, Oct, 2009	Dept. of Chemistry, Annamalai University
34	Synthesis of cycloheptyl substituted organic n-type semiconductor	National Conference of Material Science, 9-10, Oct, 2009	Dept. of Chemistry, Annamalai University
33	Effect of side chain substituent on self-assembly of perylene diimide molecules	National Conference of Material Science, 9-10, Oct, 2009	Dept. of Chemistry, Annamalai University
32	Antifungal activity and evaluation of MEP under DFT for Nnitrosopiperidinone semicarbazone and thiosemicarbazones	National Conference on recent advances in Chemistry, 18 Sept, 2009	Bishop Heber College, Trichy
31	Molecular devices for single molecule experiments.	International Conference on Functional materials, 27-29, Nov, 2008.	Dept. of Chemistry, IIT Madras
30	Chemical degradation of naphthol ASBS	National Conference on emerging trends in Chemical research, 17-18, Oct, 2008.	Dept. of Chemistry, Annamalai University
29	Facile synthesis of 2-aminoquinazolinols	National Conference on emerging trends in Chemical research, 17-18, Oct, 2008	Dept. of Chemistry, Annamalai University
28	An efficient synthesis of 2-aminopyrimidinone	National Conference on emerging trends in Chemical research, 17-18, Oct, 2008	Dept. of Chemistry, Annamalai University
27	How Does Pentagonal Molecules Self-Assemble On A Six-Fold Symmetry Surface?...	NanoSpain2008 14-18, April, 2008 ,	Braga Portugal
26	Synthesis of Organic molecules for STM studies	FRONTIERS Bio-Nano Winter School 2008, March 9-13, 2008.	Zermatt, Switzerland
25	Autoassembly of pentagonal bulky bowl molecules on a six-fold symmetry surface.	FRONTIERS Bio-Nano Winter School 2008, March 9-13, 2008.	Zermatt, Switzerland

24	Kinetics and equilibrium studies on the removal of methylene blue by adsorption onto AgO doped activated carbon from rice bran	National Seminar on theoretical and Chemical Sciences, 22-23, Feb, 2008	Dept. of Chemistry, Annamalai University
23	Synthesis and evaluation of 2-amino-6-aryl-4-(Furan-2-yl) pyrimidines as antioxidant agents	National Seminar on theoretical and Chemical Sciences, 22-23, Feb, 2008	Dept. of Chemistry, Annamalai University
22	A facile synthesis of 2-amino-5,6,7,8-tetrahydro-5,7-diarylpyrido [4,3d] Pyrimidin-4-ols	National Seminar on theoretical and Chemical Sciences, 22-23, Feb, 2008	Dept. of Chemistry, Annamalai University
21	Synthesis, antibacterial and antifungal activities of some N-nitroso-2,6-diarylpiperidin-4-one semicarbazones and QSAR analysis	National Seminar on theoretical and Chemical Sciences, 22-23, Feb, 2008	Dept. of Chemistry, Annamalai University
20	An efficient one pot synthesis of 2-amino-5,6-dihydro-5,7-diarylquinazolin-4-ols	National Seminar on theoretical and Chemical Sciences, 22-23, Feb, 2008	Dept. of Chemistry, Annamalai University
19	Numerical analysis and interpretation of pentagonal bucky-bowl molecules adsorbed on a six-fold symmetry surface.	Frontiers Annual Meeting, 23-25, October, 2007.	Frontiers, Leuven, Belgium
18	A pentagon tiling on a six-fold symmetry surface: case of pentatertbutylcorannulene on Cu (111)	Frontiers Annual Meeting, 23-25, October 2007.	Frontiers, Leuven, Belgium
17	Synthesis and antibacterial activities of some 2-amino-4,6-diarylpyrimidines	National Seminar on recent trends in Heteroatom Chemistry, 28-29 Mar, 2007	Dept of Chemistry, Annamalai University
16	Synthesis and antibacterial activity of some 5-(4-biphenyl) 7-aryl[3,4-d] 1,2,3-benzoselenadiazoles	94th Indian Science Congress, Jan. 3-7, 2007	Annamalai University
15	Synthesis of some novel Indenones	CRSI Seminar on Recent advances in Chemistry, 10-11, Mar, 2006.	Dept. of Chemistry, Annamalai University
14	Synthesis, characterization and catalytic studies of keggin aluminium polycation supported metal nano composite	4th National symposium & conference on solid state chemistry and allied areas, Dec, 1-3, 2005	Dept. of Chemistry, Goa University
13	^1H - ^{13}C Correlations of some Nnitroso-2,6diarylpiperidin-4-one semicarbazones using 2D HSQC NMR	The New Vistas in Spectroscopic techniques , 20-21 Aug, 2005.	Islamiah College, Vaniyambadi

12	Microwave-assisted synthesis and antibacterial activity of some 2-amino-6-aryl-4-(2-thienyl) Pyrimidines	National Seminar on applied research on solid state Chemistry and nanotechnology, 25-26 Feb, 2005	Dept. of Chemistry Annamalai University
11	Biominalisation of phenolic wastewater in biphasic hybrid UASB reactor using Tapioca starch effluent as a co-substrate	First national symposium on Sago, 25-26 Sept, 2004	SONA college of Technology Salem
10	Synthesis and antibacterial studies of some 2-aminopyrimidines	UGC sponsored National seminar on current trends in Chemistry, 24-26, Mar. 2004	Dept. of Chemistry Annamalai University
9	Synthesis and spectral studies of some syn and anti 6-formyl-1,2,3-selenadiazoles	IX International Conference on the Chemistry of Selenium and Tellurium, Feb 23-27, 2004.	Dept. of Chemistry, IIT Mumbai
8	Photocatalytic reduction of some Cr (VI) complexes by TiO ₂ (rutile)	National symposium on metallo-organic chelates and recent advances in chemistry, Feb. 9-10, 2001	Presidency College Chennai
7	Biodegradation of phenoxyacetic acids by Pseudomonas sp	National seminar on ecofriendly environment for sustainability, April, 27 – 28, 2000	Dept of Zoology Annamalai University
6	Biodegradation of phenols by Bacillus brevis	Annual Convention of Chemist 4-7, Dec 1998	Karnatak University
5	Bacterial degradation of thiocyanate	Environmental Strategies for the 21 st Century, 8-10, June, 1998	NUS, Singapore
4	A correlation study on physicochemical characteristics of carbonization wastewater	National seminar on sustainable environment, 4-6, Nov1997	Sri Paramakalyani center, M S University,
3	Bacterial degradation of cyanide	MICON international 94 & AMI, Nov., 9-12, 1994	DFRL, Mysore
2	A correlation study on ground water in and around chidambaram	InChES 93, 19-21, March 1993	Annamalai University
1	Oxidation of Phenoxyacetic acid by PFC in presence of oxalic acid- a kinetic study.	National seminar on new frontiers in Chemistry, 7-9, May 1991	University of Kerala, Trivandrum

Book Chapters Contributed

S.No	Title with page nos.	Book Title, Editor& Publisher	ISSN/ ISBN NO
1	High rate anaerobic wastewater treatment using the UASB bioreactor, 107-122, 2010	Environmental Pollution Causes, mitigation and recycling Prof. P.C.Trivedi, Pointer Publishers	978-81-7132-635-8
2	Impact of the Tsunami on ground water Systems and ground water based water supplies, 88-96, 2005	Wave in Bay, Prof. T. Balasubramanian, ENVIS,	81-902785-8-4
3	Decolourization of Textile mill effluent by <i>Sporotrichum pulverulentum</i> , 160-165, 2005	Environmental contamination & bioreclamation, Prof Aravind Kumar, APH Publishing Corporation, New Delhi	81-764858-7
4	Biodegradation of Cyanide – An overview, 172-183,2004	Microbial Biotechnology, Prof.P.C.Trivedi, Aavishkar Publishers & distributors, Jaipur,	81-7910-063-4
5	Microbial transformation of xenobiotics in the aquatic environment, 1147 – 1160, 2002	Ecology of polluted waters, Vol.2 , Editor Prof.Arvind kumar,A.P.H.Publishing corporation, New Delhi,	81-7648-318-4
6	Microbial Technology in the Destruction of Toxic Chemicals, 403-412, 1998	Microbes: for Health, Wealth and Sustainable Environment.Editor Prof.Ajit Verma, Malhotra Publishing House, New Delhi,	81-85048-38-X

Full papers in Conference Proceedings

S.No	Title with page nos.	Details of Conference Publication
1	Biodegradation of Phenol in Wastewater in a two stage hybrid UASB reactor using tapioca Starch as a co-substrate. 165-172, 2005	Proceedings of International Conference on Environmental Management, Pollution and Control Technologies, Prof. M.Anji Reddy, BSP BS Publications, Hyderabad
2	Biodegradation of cyanide by <i>Bacillus megaterium</i> cells immobilized in coconut shell carbon and kinetic modelling.	Proc.Natl.Symp.Frontiers in Appl. Environ. Microbiol, CUSAT,

Invited Lectures/Chairmanships at national or international conferences/seminars etc.

S.No	Title of Conference/Seminar etc.,	Organized by
39	FORCE themed: Interdisciplinary Initiative in Chemical Sciences (IICS), October 23rd to on October 26, 2025.	National University of Singapore Four Points by Sheraton
38	Refresher Course in Physical Science (Interdisciplinary), 03.12.2024	UGC- Malaviya Mission Teacher Training Centre, Bharathidasan University
37	Refresher Course entitled " <i>Contemporary Developments in Interdisciplinary Aspects in Basic Sciences</i> " 11.11. 2024	School of Chemistry, UGC-Malaviya Mission Teacher Training Centre, MKU
36	Two Week Capacity Building Programme on Academic Writing and Nuances of Research Publications for Faculty Members in Social Sciences, 6 th Nov. 2024	Department of Management, Central University of Tamil Nadu, Thiruvavur
35	Two-Week Refresher Course in Basic Sciences, 04.11.2024	UGC-Malaviya Mission Teacher Training Centre, Jamia Millia Islamia, New Delhi
34	Interdisciplinary Refresher Course- Physical Sciences, 08th October 2024	UGC Malaviya Mission Teacher Training Centre (MMTTC), Gandhigram Rural Institute
33	National Workshop on MAterials for GreeN Energy Technologies (MAGNET - 2024) on February 21–22, 2024	Department of Physics, CUTN
32	Fourth International Conference on Materials Science (ICMS 2024), 31st Jan - 2nd Feb, 2024.	Tripura University, Tripura
31	International Conference on Current Trends in Advanced Functional Materials (CTFAM-2023), 26th to 27th Sept. 2023	Department of Chemistry, Saranathan College of Engineering, Trichy
30	International Conference on 'Advanced Materials for Health, Energy and Environment (AMHEE-2023) Feb. 28 to March 2, 2023.	Sri Jayachamarajendra College of Engineering (SJCE), JSS Science and Technology University,
29	Refresher course in Chemistry, June 6, 2022	UGC-HRDC Pondicherry University
28	ATAL FDP on 'Molecular Manufacturing' on 05th Jan. 2022	Central University of Punjab, Ghudda, Bathinda
27	Refresher course entitled "Frontiers in Chemistry" 10.11.2021	UGC-HRDC and School of Chemistry, MKU
26	International Conference on <i>Recent Advances in Chemical, Physical and Biological Sciences</i> , June 30, 2021	Nabira Mahavidyalaya, Katol, Nagpur,
25	International Conference on Frontiers in Chemical and 24 th & 25 th February 2020, Material Sciences (ICFCMS-2020)	Department of Chemistry, The Gandhigram Rural Institute,
24	Special Lecture, 12 th October, 2019	Dr N G P Arts and Science College, Coimbatore.
23	National Conference on Trends in Chemistry, 23rd September 2019	Dept. of Chemistry, Thiru. Vi. Ka. Govt Arts College, Thiruvavur,

22	Second National Conference on Advanced Materials for Health, Energy and Environment (AMHEE-2019), 06 th & 07 th September 2019	Department of Chemistry JSS Science and Technology University,
21	International Conference on Advances Sustainability of Materials and Environment (ICASME'19), 4 th & 5 th April 2019	St. Xavier's Catholic College of Engineering, Nagercoil
20	DST-INSPIRE Programme 2018, 30.09.2018	Dr. N.G.P. Arts and Science College Coimbatore – 641 048
19	Short term course on training programme for CSIR/UGC-JRF exam in Chemical Sciences, 05 th Sep. 2017	Department of Chemistry NIT, Trichy,
18	Material Science - refresher course, ASC, 29.09.2015	Pondicherry University, UGC- HRDC,
17	Lecture Workshop, 07.09.2015	Swami Dayananda College of Arts and Science, Thiruvarur
16	ASC, Refresher course, 22, Aug. 2015	University of Madras, ASC,
15	Transition 2015, 13-14 March. 2015	CUTN, Thiruvarur
14	National Seminar on Modern Trends in Chemistry, 31.01.2015	Vivekananda College, Madurai
13	Transition 2014, 24th Jan. 2014	CUTN, Thiruvarur
12	National level workshop on characterization of advanced materials, 8th Nov.2013	Mar Ivanios College, Trivandrum
11	Chemistry Association inauguration, 29 July 2013	Gandhigram Rural Institute
10	One-day seminar on Mordern Chemistry, 23 July 2012	M.S University, Tirunelveli
9	National level seminar" <i>Brainy 2012</i> " 21.03.2012	A.V.C College of Engineering, Mayiladuthurai
8	National seminar on new vistas in catalysis and surface science, 16- 17, March 2012	Annamalai University
7	State level seminar, 27.12.2011	Vellalar College for Women, Erode
6	Recent Applications of Nanomaterials in Chemistry & Environmental Research, 18-19, Feb.2011	Kongu Engg College , Erode
5	National Seminar on New Frontiers in Chemistry,1516, Mar, 2010	Department of Chemistry, Annamalai University
4	Lecture workshop on Synthetic and Structural Chemistry, 21-22, Mar 2009	Department of Chemistry, Annamalai University



3	Indo-French workshop on Biohydrogen: from basic concepts to technology, 8 Nov, 2008.	IndoFrench center for the promotion of advanced research, New Delhi
2	FRONTIERS Workshop, BioNano 08 March 913, 2008	Frontiers, Belgium
1	Recent Trends in Industrial effluent Treatment, 25th July 2004	Department of Chemical Engg., Annamalai University




Training Courses, Teaching- Learning – Evaluation Technology Programmes, Faculty Development Programmes Attended


S.No	Programme	Duration	Organised by
1	Orientation course for College and University Teachers	20.11.97 to 17.12.97	UGC & ASC Pondicherry University
2	Winter School in Chemistry	24.12.97 to 03.01.98	Indian Chemical Society, Mumbai
3	Process Design and Scale – up of Innovative Biopolymer Fermentation.	18.05.98 to 23.05.98	IIT Madras
4	Refresher course in Chemistry	23.11.98 to 16.12.98	UGC & Annamalai University
5	Regional Training Programme on Spectroscopy.	01.01.01 to 13.01.01	IIT Madras
6	Refresher course in Chemistry	02.02.02 to 22.02.02	UGC & Annamalai University
7	Refresher course in Industrial Biotechnology	06.10.03 to 26.10.03	UGC & Annamalai University
8	Instrumental Methods of analysis for engineers and scientists	10.12.2001 to 14.12.2001	IIT Madras
9	Emotional Intelligence at Workplace for Scientists / Technologists	05.08.2019 to 09.08.2019	Department of Science and Technology (DST) the Centre for Organization Development (COD), Hyderabad
10	Mentorship program under National Mission on Mentorship as per the NITTR, Ministry of Education (Govt. of India)	01.02.2021 to 10.02.2021	National Institute of Technical Teachers Training and Research, Ministry of Education, Govt. of India, Chennai.
11	Nurturing Future Leadership Program (NFLP)	25th to 29th March 2025	IIT Madras, Chennai
12	National Workshop on Digital Manufacturing	25th to 29th August 2025	IIT Madras, Chennai
13	Consultative Meeting on “Ease of Doing Research & Development (R&D)” by NITI Aayog.	30th-31st October 2025	National Centre for Earth Sciences (NCESS), Trivandrum

RESEARCH GUIDANCE - Ph.D.

S. No	Name	Thesis Title	Year
16	 Dr. R. Gayathri	Strategic Design and Synthesis of Functionalized Triarylamine and Ferrocenes for Organic <i>WORM</i> Memory Devices	2024
15	 Dr. D. Harshini	Design and Synthesis of Functionalized Triarylamine with Donor- π -Acceptor Architecture: A Promising Material for Non-Volatile Organic Memory Devices	2024
14	 Dr. Angela Maria Varghese	Design and Synthesis of Donor-Acceptor based Quinolines for non-volatile Organic Memory Devices	2023
13	 Dr. B. Balambiga	Design, Synthesis, and Organic field-effect performance of [3] and [5]-Phenacenes	2022
12	 Dr. P. Devibala	Design and Synthesis of Functionalized Triarylamine for Organic Field-effect Transistors	2022

11		Design and Synthesis of meso triarylamine Functionalized Porphyrins for Solution processable Organic Field-effect Transistors	2022
	<i>Dr. Komal Kurlekar</i>		
10		Ester-Flanked Functionalized Quinolines: Design, Synthesis, and Application in Unipolar and Ambipolar Organic Field-Effect Transistors	2021
	<i>Dr. Anshika Anjali</i>		
9		Unsymmetrical Triarylamines: Design, Synthesis, and Application towards Solution Processable Organic Field-effect Transistor	2020
	<i>Dr. R. Dheepika</i>		
8		Synthesis of novel Naphthyl diimides and Phenanthro[9,10-d] benzimidazoles for Field-effect Transistors	2020
	<i>Dr. Srinita Sonalin</i>		
7		Functionalization of Graphene Oxide for Gas Sensing and Photo Electrochemical Applications	2019
	<i>Dr. Farheen Khurshid</i>		

6	 Dr. G. Boobalan	Synthesis, self-assembly and optical properties of highly fluorescent perylene diimides	2012
5	 Dr. S. Senguttuvan	Synthesis and antimicrobial activities of quinazolin-4-ols, 2-pyrazolines and 4-aminopiperidines	2011
4	 Dr. P. Amutha	Synthesis and antimicrobial evaluation of aminopyrimidinols, spiropyrimidiones, iso-butylpyrimidinones and indazoles	2010
3	 Dr. T. Hemalatha	Synthesis, antifungal, antibacterial and QSAR studies of some N-nitrosopiperidin-4-one semicarbazones and thiosemicarbazones.	2010
2	 Dr. N. Ingarsal	Synthesis and spectral analysis of some 1,2,3-selenadiazoles, 1,3-thiazine and 2-aminopyrimidines	2004

1	 Dr.T. Balasankar	Synthesis and spectral studies of some heterocyclic compounds.	2002
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M.PHIL THESES GUIDED

S.No	Name	Thesis title	Year
22	P. Devibala	Synthesis of Aroylbenzoate-based Push-Pull Molecules for OFET Applications	2018
21	R. Vijayalakshmi	Self-assembly and photophysical properties of 2,4,5-Triarylimidazoles	2012
20	A. Senthilraja	Synthesis, self-assembly and optical properties of N,N'-Di(octadecyl)perylene-3,4,9,10-tetracarboxylic diimide and its activation of TiO ₂	2011
19	A.Yamuna Devi	Synthesis and electrochemical characterization of nitroarylpropenones	2010
18	V.N.Priyadharshini	Facile synthesis of 2-amino-4-(4-isobutylphenyl)-6-arylpyrimidines	2010
17	M.Murugavelu	Synthesis, photophysical and electrochemical properties of a minuscule tailed perylene diimide.	2010
16	S.Savithiri	Synthesis and antibacterial evaluation of naphthylpyrimidinones	2010
15	K.L.Jeyalakshmi kala	Synthesis and Spectral Analysis of Some 1,2,3-Thiadiazolopyridines	2006
14	T.Sumitha Celin	Inclusion complexation of 2- aminopyrimidines with – β cyclodextrin: physico-chemical and nuclear resonance spectroscopic studies.	2006
13	K.Selvambihai	Inclusion complexes of 2,3- dihydropyrimidin-2(1H) with – β cyclodextrin	2005
12	S.Senguttuvan	Synthesis of some Indenones	2005
11	T.K.Harihara Iyer	¹ H- ¹³ C Correlations of some N-formyl-5,7-diaryl-4,5,6,7-tetrahydro[3,4-d]-1,2,3-selenadiazolopyridine.	2005
10	R.Sobana	Microwave-assisted high speed parallel synthesis of 4-aryl-3,4-dihydropyrimidin-2(1H)-ones	2004
9	S.Chandrasekaran	Microwave-assisted synthesis of some 2-aminopyrimidines	2004
8	K.Vijayaramalingm	Synthesis and spectral studies of some pyrimidin-2(1H)-ones.	2003
7	G.Saravanan	Synthesis of some novel 2- aminopyrimidines.	2003

6	V.Chitra	Synthesis and spectral studies of 2,6- diphenyl-3,5-bis(benzylidene)-piperidin-4-one and 2,6-diphenyl-3,5-bis(2- chlorobenzylidene)- piperidin-4-one.	2002
5	A.K.Srinivasan	Plasmid – assisted phenol degradation by <i>Bacillus megaterium</i> MTCC 2444.	2000
4	R.Markandan	Biodegradation of phenoxyacetic acids by <i>Pseudomonas</i> sp.	1999
3	N.Ingarsal	Photocatalytic reduction of some Cr(VI) complexes by rutile.	1999
2	T.Balasankar	Biodegradation of Phenols by <i>Bacillus brevis</i> .	1998
1	S.Birundha	Decolourizing dye wastewater with sodium perborate.	1997

M.Sc. RESEARCH PROJECT STUDENTS GUIDED

S. No	Student Name	TITLE OF THESIS	YEAR
1	A. JEEVITHA	INFLUENCE OF SOLVENTS ON THE QUENCHING OF FLUORESCENCE OF PTCDI	2015
2	K SUGANYA	SYNTHESIS AND DSC STUDIES OF GRAPHITE OXIDE	2015
3	BALAMBIGA.B	SYNTHESIS AND CHARACTERISATION OF ARM-CHAIR-EDGED DIBROMOPICENES	2016
4	JAYAKODI.G	SYNTHESIS AND CHARACTERISATION OF INDENO [2,1-A] INDENE DERIVATIVE	2016
5	DEVIBALA.P	SYNTHESIS AND CHARACTERISATION OF TRIPHENYLAMINE INCORPORATED ANTHRACENE DERIVATIVES	2016
6	R. MANORANJANI	SYNTHESIS AND CHARACTERIZATION OF TRIPHENYLAMINE-BASED ACETYLENES	2016
7	AJMAL P	SOLVENT RESPONSIVE MOLECULAR SELF-ASSEMBLY OF LUMINESCENT 1,8-NAPHTHALIMIDES	2017
8	GEETHANJALI A	QUENCHING OF TRIARYLAMINE FLUORESCENCE BY METAL IONS	2017
9	ISWARYA	FLUORESCENCE QUENCHING BY METAL IONS IN FUNCTIONALISED TRIPHENYLAMINES	2017

10	NAVEENA ANNA	FUNCTIONALISED PHENANTHRO[9,10-D]IMIDAZOLES AS FLUORESCENT CHEMOSENSORS FOR FERRIC ION	2017
11	SUJEETH KUMAR D	SYNTHESIS AND CHARACTERISATION OF GRAPHENE OXIDE-METAL COMPOSITES	2017
12	VEENA VIJAYAN	1,8-NAPHTHALIMIDE BASED "TURN-OFF" FLUORESCENT CHEMOSENSOR	2017
13	MUHSINA MK	PHENANTHRO [9,10-d] IMIDAZOLE: AN EFFICIENT FLUORESCENCE SENSOR FOR FERRIC ION.	2017
14	ANISHA SHAJI	DNA BINDING STUDIES OF NEW FUNCTIONALISED TRIARYLAMINES	2018
15	ANUJA JOHNY	DNA INTERACTION STUDIES OF FUNCTIONALISED PHENANTHRO[9,10-D]IMIDAZOLES	2018
16	NISHITA ELIZEBETH	INTERACTION STUDY OF TRIMETHOXY SUBSTITUTED PHENANTHRO[9,10-D]IMIDAZOLES WITH DNA	2018
17	YADHUKRISHNAN V O	SYNTHESIS, CHARACTERIZATION, AND BIOLOGICAL STUDIES OF HALF SANDWICH RUTHENIUM(II) COMPLEXES BEARING TRIPHENYLAMINE BASED THIOSEMICARBAZONE LIGAND	2018
18	AAMNAYEE MISHRA	QUENCHING OF TRIARYLAMINE CARBOXYLIC ACIDS FLUORESCENCE BY NITROAROMATICS	2019
19	ABHIJNA KRISHNA R	SYNTHESIS AND DNA BINDING STUDIES OF HALF-SANDWICH RUTHENIUM(II) COMPLEXES	2019
20	PARVATHY P A	SENSING OF PICRIC ACID BY TRIARYLAMINE PHENANTHROIMIDAZOLES	2019
21	NIDHI A J	STUDIES ON SELF-ASSEMBLED PORPHYRIN-PTCDI DONOR-ACCEPTOR CONJUGATES	2019
22	ANKITA PANDA	TUNABLE UNSYMMETRICAL TRIARYL AMINE CHEMOSENSORS FOR NITROAROMATICS DETECTION	2020
23	SNEHA M	DESIGN AND SYNTHESIS OF SYMMETRICAL DIARYLCARBAZOLE	2020
24	RAKESH S KUMAR	DESIGN AND SYNTHESIS OF FUNCTIONALISED DIBROMODIBENZOFULVENES	2020

25	ABHISHEK ANIL NAIR	MOLECULAR AGGREGATION AND NITROAROMATIC SENSING BY FUNCTIONALISED TRIARYLAMINES	2021
26	ANJALI ASHOKAN	SYMMETRICAL DIARYLCARBAZOLES FOR AGGREGATION AND NITROAROMATICS INTERACTION STUDIES	2021
27	SAMBIT KUMAR LENKA	UNUSUAL BEHAVIOR OF D- π -A-A/D QUINOLINES FROM AGGREGATION CAUSED QUENCHING TO AGGREGATION-INDUCED ENHANCED EMISSION	2021
28	SAHANA NOUREEN	ACETYLENE-EXTENDED TRIARYLAMINES FOR SOLUTION PROCESSABLE HIGH-PERFORMANCE OFETs	2021
29	AISHWARYA.M	ARYNYLETHYNYLENE-BRIDGED TRIARYLAMINES FOR AGGREGATION AND PICRIC ACID SENSING	2022
30	KANNIYA VARSHINI N	DONOR- π -ACCEPTOR-BASED FUNCTIONALIZED TRIARYLAMINES FOR THE DETECTION OF NITROAROMATICS	2022
31	SHANISHA. K P	SENSING AND AGGREGATION BEHAVIOR OF ARYLACETYLENE FUNCTIONALIZED ALKOYPHENANTHRENES	2022
32	ARDRA MURALI	ISATIN-BASED ORGANIC MEMORY DEVICES: A PROMISING PATHWAY TOWARDS HIGH-PERFORMANCE DATA STORAGE.	2023
33	SUNITHA DUGGEMPUDI	BENZOYTHIODIAZOLE'S EVOLUTION AS A KEY MATERIAL IN ORGANIC MEMORY DEVICES.	2023
34	SWETHA SV	DESIGN AND SYNTHESIS OF INBUILT D-A ARCHITECTURE OF INDOLOQUINOXALINS FOR NON-VOLATILE MEMORY DEVICE APPLICATION.	2023
35	ASIT HAIT	DESIGN AND SYNTHESIS OF PYRIDINE-BRIDGED BENZOTHIAZOLE-BASED D-A SYSTEM FOR SRAM MEMORY DEVICES.	2023
36	BHAGYANATH PK	SWITCHING FROM BINARY TO TERNARY WORM MEMORY BEHAVIOUR OF BENZOTHADIAZOLE-BASED D-A SYSTEM.	2023
37	RIYA ADHIKARI	FUNCTIONALIZED BENZOPHENONES WITH DONOR- π -ACCEPTOR ARCHITECTURE FOR NON-VOLATILE ORGANIC MEMORY DEVICE APPLICATIONS	2024
38	GOKUL R	EXPLORING THE POTENTIAL OF MALONONITRILE FUNCTIONALIZED DONOR-ACCEPTOR SYSTEMS FOR NON-VOLATILE MEMORY DEVICE APPLICATIONS	2024
39	MUHSINA K M	DESIGN AND SYNTHESIS OF FUNCTIONALIZED ANTHRACENES FOR RESISTIVE MEMORY DEVICE APPLICATIONS	2024

40	MEGHA V P	DESIGN AND SYNTHESIS OF TRIPHENYLAMINE-BASED DONOR-ACCEPTOR SYSTEMS FOR NON-VOLATILE BINARY WORM MEMORY DEVICES	2024
41	SHABNA P H	RESISTIVE SWITCHING MEMORY DEVICES FROM PLANT-DERIVED GUM AND LATEX: A STEP TOWARDS GREEN ELECTRONICS	2024
42	THEJALAKSHMI	EXPLORING THE POTENTIAL OF DIBENZOTHIOPHENE SULPHONE-BASED D-A-D' AND D- π -A- π -D' ARCHITECTURES FOR RESISTIVE MEMORY DEVICE APPLICATIONS	2025
43	AGRAWAL KHUSI	FUNCTIONALIZED BENZIMIDAZOLE WITH D-A-D/A ARCHITECTURE FOR NON-VOLATILE ORGANIC MEMORY DEVICE APPLICATIONS	2025
44	AJAY NAMITHA	FUNCTIONALIZED PHENANTHRO[9,10-d]IMIDAZOLE-BASED DONOR-ACCEPTOR SYSTEMS FOR NON-VOLATILE RESISTIVE WORM MEMORY DEVICE APPLICATIONS	2025
45	LENIN JAYALAKSHMI	FINE-TUNING THE RESISTIVE SWITCHING OF ORGANIC WORM MEMORY DEVICES USING FUNCTIONALIZED PYRIDINE D- π -A ARCHITECTURES	2025
46	K. JANANI	TRIARYLAMINE AND PHENOXAZINONE-BASED BULK HETEROJUNCTIONS FOR ORGANIC NON-VOLATILE BINARY WORM MEMORY DEVICES	2025

ACADEMIC IDENTITY

- **SCOPUS ID:** <https://www.scopus.com/authid/detail.uri?authorId=8622038400>
- **GOOGLE SCHOLAR ID:** <https://scholar.google.com/citations?user=MdygFIYAAAAJ&hl=en>
- **ORCID ID:** <https://orcid.org/0000-0001-6959-7747>
- **IRINS:** <https://cutn.irins.org/profile/44332>
- **ResearchGate:** https://www.researchgate.net/profile/Samuthira-Nagarajan?ev=hdr_xprf

COUNTRIES VISITED

- France, CEMES, CNRS, Toulouse, worked as Postdoctoral Fellow.
- Attended Frontiers International Workshop, Zermatt, Switzerland.
- Visited IMEC, Leuven, Belgium.
- Visited Spain, Andorra, and Monaco.
- Japan, National Institute of Materials Science (NIMS), MANA, WPI, Tsukuba worked as Guest Researcher 2010 & 2011.
- Visited Tashkent, Uzbekistan for Paper Presentation at an International Conference.
- Visited United States of America, 2024 & 2025.
- Visited Singapore, October, 2025 for an invited talk in an international Conference, and visited National University of Singapore.

DECLARATION

I, hereby declare that the information given above are true to the best of my knowledge and belief.

S. Nagarajan